OSMANIA PAPERS IN LINGUISTICS

Volumes 16-17

1990-91

Combined Special Volume

IN HONOUR OF PROF. H.S. ANANTHANARAYANA

Editor

J. VENKATESWARA SASTRY



DEPARTMENT OF LINGUISTICS
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OSMANIA PAPERS IN LINGUISTICS

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DEPARTMENT OF LINGUISTICS
OSMANIA UNIVERSITY
HYDERABAD 500 007
INDIA

CITATION PRESENTED TO

PROF H.S. Ananthanarayana

ON THE EVENT OF HIS RETIREMENT FROM SERVICE AT OSMANIA UNIVERSITY

Born in a family well versed in Vedic traditions, Prof. H.S. Ananthanarayana had the advantage of acquiring classical Indian linguistic tradition, before it was supplemented with western formal learning in USA. In his long checkered academic career, he has been a Research Fellow, an Instructor, a Lecturer, a Reader and a Professor and his career was capped by the UGC recognition wherein he was appointed as a National Lecturer.

He shouldered numerous administrative and academic responsibilities in Osmania University and other learned institutions. He has been the Head of the Department, Chairman, Board of studies, Dean, Faculty of Arts in Osmania apart from being a member of Board of Studies in other Universities. He has had a unique distinction of being the President of Dravidian Linguistic Association and Linguistic Society of India, simultaneously. He has taught and lectured in many Universities in India and abroad. He has actively participated in a number of national and international seminars. Although his formal designation is Professor of Historical Linguistics, his research covers a wide range of areas. He has written on Sanskri, Prakrit, Panini and Tolkappiar. His explorations into the Sanketi language has brought its structure to the Knowledge of fellow linguists. In a sense, we can call him the Panini of Sanketi. He has published six books and seventy articles in English and Kannada, popular as well as Scholarly in Journals, encyclopaedias and anthologies.

Professor Ananthanarayana belongs to that generation of linguists which has continuously expanded its vistas of intellectual pursuit by extending its areas of exploration rather than shrinking into a well protected narrow shell of specialisation.

Professor Ananthanarayana has served the Osmania University for nearly three decades. He has trained several generations of linguists, some of whom have become his own colleagues in the department.

The qualities that his friends and colleagues have always cherished are his ever willingness to take up challenges, always standing by his colleagues and love for the students. Though, at times, his communicative performance may have been at variance with his communicative competence, its tenderness is, nevertheles, quite palpable.

Wishing Prof. Ananthanarayana a happy, healthy, prosperous retired life and active academic endeavours.

HIS EVER LOVING COLLEAGUES AND STUDENTS.



PROF. H.S. ANANTHANARAYANA

Publications of Prof. H.S.Ananthanarayana

a) Books:

- 1970. Verb Forms of the Taittiriya Brāhmana. Poona: Deccan College.
- 1973. A Prakrit Reader. Mysore: Central Institute of indian Languages.
- 1976. Four Lectures on Pāṇini's Aṣṭādhyāyi. Annamalainagar: Annamalai University.
- 1979. A Syntactic Study of Old Indo-Aryan. Hyderabad: Dept. of Linguistics., Author.
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b) Papers:

- 1962. Modern Persian hæst and nist, Indian Linguistics 23.1-4.
- 1966 Perfect forms in the Taittiriya Brahmana, BDCRI 25. 32-41.
- 1968. Sound Changes in Sankēti, A Tamil dialect, Studies In Indian Linguistics, 1-14.
- 1968. A frequency study of verbal prefixes in the Taittiriya Brahmana, Journal of Osmania University, 87-109.
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Communicated:

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- 2. Syllable in Sanskrit, Proc. of the Seminar on the Syllable in Phonetics and Phonology. Hyderabad: Department of Linguistics, Osmania University.
- 3. The meaning of Tenses and Modes in the Indian Tradition, Proc. of the Seminar on Tense and Aspect in Indian Languages. Department of Linguistics, Osmania University.

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- 1980. Languages of India, Prabuddha Karnātaka 62.no.1. 25-36.
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Contribution to other Encyclopaedias: (In Press)

- 1. Sankēti Tamil, Dravidian Encyclopaedia.
- 2. Pāṇini 's grammar, -do-
- 3. Pāṇiniya šiksā, Bhāratiya Bhāsatattva Mimamsa.
- 4. Bhāradwāja Šiksā, -do-
- 5. Apišali šiksā, -do-
- 6. Vyāsa šiksā, -do-
- 7. Varnasūtras of candragomin, -do-

Popular articles in Souvenirs:

- The original home of the Sanketis, Mysore 1970.
- Linguistic Taboo, Hyderabad: Souvenir of the third AICL 52-55, 1972.
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ii) Research Fellow in Indo-European Linguistics, University of Texas at Austin, USA. 1959-60

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Gold Medalist.

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Vice-President, Dravidian Linguistics Assn. 1987-88

1990-91

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President, DLA, 1988-89

President, LSI, 1988-90

UGC National Lecturer, 1989-91

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International Journal of Dravidian Linguistics, 1981 -

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7. Life Membership in Learned Societies:

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- IX International Conference of Linguistics, Harward University, (U.S.A.), 1962.
- II International Conference on South Asian Languages and Linguistics, Osmania University, Hyderabad, 1980 International Seminar and Conference on Dravidian Linguistics, Trivandrum, 1986.
- All India Oriental Conference, Calcutta (1969), Kurukshetra (1974), Poona (1978).
- All India Conference of Linguistics, Poona (1970), Hyderabad (1972), Delhi (1974), Calcutta (1980), Delhi (1978).
- All India Conference of Dravadian Linguists, Tirupati (1972), Bangalore (1977), Hyderabad (1981), Pondicherry (1982).

International seminar on Panini, Poona (1981)

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Tamil, Kannada, Telugu Hindi, (Marathi), Sanskrit English, German, French

EDITOR'S NOTE

Though it was not anticipated, the structure of this combined special volume, which is being presented to Prof.H.S.Ananthanarayana in appreciation of his contribution to the Department of Linguistics at Osmania University, is really unique, in the sense it has contributions from varied areas of linguistics. There are sixteen papers including a review article: four dealing with phonetics and phonology; three papers concerned with historical linguistics; two out of these three focus on Dravidian studies; only one paper which has child language acquisition process as its theme; two papers which speak about Pan-Indian language features of the verb forms; another couple of papers that have contact and convergence of Indian languages as the core point of discussion. The remaining four papers are related to some specific aspect of Telugu language. Thus, the present volume, though it is slightly delayed, with its multidimensional approach to different areas of linguistics, will be an addition to the existing literature in Indian Linguistics Studies.

Prof. Ananthanarayana is one of the founder - editors of the *OPiL*, and we in the department feel that the dedication of this combined special volume is a fitting tribute to him.

Editor

OSMANIA PAPERS IN LINGUISTICS

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OPIL: 16-17: 1-4 (1990-1991) :

PALATAL SIBILANT: ASPECT OF ASPIRATION

Dinker Deshpande osmania university

Abstract: By drawing examples from Marathi and Hindi and quoting extensively from Indian traditional grammarians, this paper concludes that Sanskrit Sibilants are aspirated sounds and more so in case of palatal Sibilant

The second and fourth consonants of all the classes of stops are aspirated consonants in almost all Indo Aryan Languages. Western linguists aslo treat these consonants as aspirated ones. So, this is an undisputed fact accepted by all. In Indian tradition even semi vowels and sibilants are also treated on the level of aspiration. In siddhanta Kaumudi of Bhattoji Dikshita we come across a statement, which reads thus - Vargānām PrathamaTrtiya Pañcama Yaralavāśca alpaprāṇāḥ anye mahāprāṇaḥ ' i.e., First, third and fifth consonant of stop-classes and the semivowels are unaspirated sounds and rest are aspirated. The Tatvabodhini commentary on this explains again thus - Vargāṇām Dwitiya caturtho Salaśca mahāprānah' i.e., Second and fourth consonants of stop classes and sibilants are aspirated sounds. The cynosure for us is that the sibilants are treated as aspirated sounds. Thus Indian tradition in phonetics emphasises that just as all the sounds are either voiced or voiceless so also all the sounds are either aspirated or unaspirated sounds. Western phoneticians

DINKER DESHPANDE

have treated sibilants as fricatives only and not as aspirated sounds. Even panini has not mentioned the aspiration of sibilants. Sibilants are called *ūṣma* consonants i.e. warm consonants by Indian grammarians. Siddhānt Kaumudi of Bhaṭṭōji Dikshit is almost a rearrangement of paninis Aṣḥṭādhyāyi. Then how is that Bhaṭṭōji Dikshit has called sibilants as aspirated when panini has not called likewise? It seems Bhaṭṭōji has taken cue from Vājaśanēyi prātišākhya whereinsibilants are called ūṣma sounds and in the commentory it is explained that ūṣma means mahāprāṇa also. Thus Indian phonetic tradition clearly establishes S, Ś and S as aspirated consonants.

Many a times sibilants are changed to h in Neo-Indo Aryan languages. The retroflex sibilant S changes to Kh almost invariably. There are of course a few exceptions in Marathi. This sound was treated as S or kh even in old days. Thus we have sat and sat tradition. The cluster sat, which is found abundantly in Sanskrit, changes to sat in NIA languages. The data I have collected has no retroflex sibilant and therefore this sibilant is not relevant for my conclusions. The data consists of some Sanskrit sat $sat}$ (i.e., formed from Sanskrit) words. The words are in vogue mostly in Marathi and Hindi. The behaviour of palatal sibilant is to be noted here. The following table gives complete data.

	<u>Sanskrit</u>	<u>Marathi</u>	<u>Hindi</u>	<u>Gloss</u>
1.	Pāśa	phasa	phasa	a noose
2.	śānta	santha		placid, calm
3.	veśa		bhesa	dress
4.	śarkarā	sākhar	sakkar	sugar
5.	kiśa	khisa	khisā	shreddings, bits
6.	kośa	khoss(khoca)	khosa	to tuck, to prod
7.	laśuna	lasuna	lahasan	garlic

8.	śāṇa	sahāņ		a whet stone
9.	śati	sāḍi	sāḍi	saree
10.	śāţī	chātī		sanyasi's garment
11.	śakata	chakadā	chakaḍā	bullock cart
12.	kēśa	kesa		hair

The above data gives clear indication that the palatal Sibilant Shas more aspiration than S and S changes to S passing its extra aspiration to the consonant in proximity in tadbhawa words. Examples 1 to 6 are so clear that no other comment is necessary. When the consonant in proximity is not a stop, the \dot{S} has split into two parts i.e., one, the occlusion part and two the aspiration part. The aspiration part has become h and the occlusion part has changed to S. This is evident in examples 7 and 8. Example 9 again falls in line with examples 1 to 6. Though the word sadhi has given place to sadi in Hindi, the word sadhi is in vogue in Punjabi even now. Examples 10 and 11 show how S has changed to Ch, the aspirated stop and not to c the unaspirated one. The sandhi sutra also says saschoti" i.e., S changes to ch in certain conditions. Now why S should change to ch and not to c? Acceptance of extra aspiration in \dot{S} should be an answer to this. In pall this phenomenon of aspiration is noticed but there the aspiration has no definite pattern. paraśu' (skt) changes to pharasu'and kubja changes to khuji and therefore some linguists call this as sporadic aspiration. In the examples given above we clearly see a definite pattern, tendency f S changing to S and passing its extra aspiration to adjacent stop. In Marathi I could get only one tadbhawa word keśa (skt, keśa ex.No12) wherein this pattern is not followed, but then the exception may prove the rule. From the data given above we may not be able to establish a phonetic law but we can definitely of establish 'phonetic tendency'. Finally the question of points of articulation of \hat{S} and S may arise. In the tradition of paini \acute{S} is palatal and S

dental. While passing on its extra aspiration why palatal should change to dental? In fact from the time of palatal and praket the articulation of s has slowly become alveolar and s has become front palatal i.e., it has come close to alveola. In this condition, chage of point of articulation is not at all impossible. Thus following conclusion could be drawn.

The sibilants are aspirated sounds in Indian tradition. The retroflex sibilant has a tendency to change to kh. The palatal sibilant is more aspirated than dental sibilant and in the course of development it changes to S passing on its aspiration to adjacent consonant, or splits into h and s, or changes to ch; leaving no doubt about its extra aspiration.

Colophone - I am very much thankful to Dr. H.S. Ananthanarayana of the Department of Linguistics, for some valuable suggestions and to Dr.P.Sriramachandrudu, retd. Professor of Sanskrit for giving me one or two important references.

MEASUREMENTS OF FORMANT FREQUENCIES OF URDU VOWELS

Mohd. Ansarl Osmania University

Abstract: This paper deals with the acoustic features of Urdu vowels in terms of their quality, as measured from the spectrograms. The measurement of formant frequencies of vowels in hertz is provided and discussed in detail.

Basically, the spectrograms of speech represent a visual display that shows the frequency dimension horizontally, while the intensity is shown by varying degrees of darkness - depending on the source. Broadly three types of spectrographic analysis were used. They are namely; (i) Broad band or wide band, (ii) narrow bands, (iii) Continuous amplitude display. For this it was felt convinient to use the broad band analysis, for the reason that this type of analysis is very helpful in the analysis of segmental phonemes. By and large, the broad band spectrogram involves analysis with 300 cps filter which results in the display of formant structures. These formant structures are regions of energy concentration (H.M.Tryby). These formants appear horizontally starting at the bottom of spectrograms and are called formant one (F₁), formant two (F₂), formant three (F_3) etc., where F_1 deals with height of the tongue, F_2 deals with backness of the tongue; lower F_1 is for a high vowel, high F_1 is for a low vowel and F_2 is high for a front vowel, F, is low for a back vowel etc.

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Measurements of Formant Frequencies of Vowels:

The sound when produced will be the sum of different vibrations and has corresponding frequency components in its spectrum. The black and slightly dark regions in the spectra of vowels correspond to the basic frequencies of the vibrations of the air in the vocal tract. The regions of the spectrum in which the frequency components are relatively large are known as formants (every region of vowel seen to be large, so is treated as formants). The formant shapes and their concentration of energy does not only helping recognisation of the vowels but also gives us a detailed image of how each vowel behaves different from the other. The formants of a sound are thus aspects of it which are directly dependent on the shape of the vocal tract, and are largely responsible for the characteristic quality. The formant relations that specify the vowels of Urdu are inherently relationed rather than absolute. Since different sized supralaryngeal vocal tracts will produce different. absolute formant frequencies. If we start with the vowels like /i, u, a/, the vowel /i/ has the highest F₃ of all Urdu vowels, it also has the high F, as you can see in Table-I.

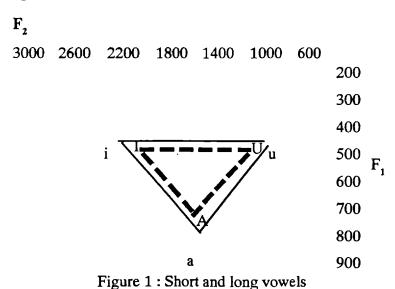
Table-I: Frequency values of vowels:

Formant frequencies (cps)				
Vowel	F_1	F ₂	F ₃	
i	500	2000	2800	
I	550	1800	2500	
a	800	1300	2300	
Α	750	1400	2500	
u	500	800	2350]	
Ŭ	550	900	2300 } not clear	

e	700	2000	2700	
0	600	1000	2600	
Ai	650	1800	2700	
Au	500	1000	2750 ε	etc

Table-I shows the values of F_1 , F_2 and F_3 of vowels which form past of the lexical items given to be spoken by native speakers of Urdu which spectrograms have been made. The over all frequency of each vowel has been measuring the steady state of formants and tabulated on Table-I.

The contrast between short and long vowels can be identified by having a vowel plot diagramatically in figure 1 (as shown below). F_1 and F_2 of both short and long vowels were measured as pronounced by the informants. Figure 1 indicates the location of vowels according to their formant measurement of each yowel is shown at the intersection of the reading of the measurements of F_1 and F_2 . It appears that with /a/ and /A/ is not only a quantity.



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difference but a substantial quality difference as well. The broken line indicates short vowels and the solid line indicates long vowels. That there is difference in quality as well as duration between the long and short counter parts of high front, /I/ and /i/, and of high back /u/ and /U/ vowels.

The values of F_1 , F_2 and F_3 of /i/ is 500 cps, 2000 cps, 2800 cps respectively (See Table I). But the F_2 of /u/ and /U/ is low about 800 cps than other vowels. The /i/ and /u/ yield two vertices. Vertices of the acoustic vowel triangle, where the first and second format frequencies are plotted (See figure 1). The vowel /a/, which is specified by F_1 , F_2 tending to converge each other at about 1000 cps. The mean values of F_1 , F_2 of /a/ 800 cps, 1300 cps respectively. Here it should be noted that the formant frequency pattern of Urdu vowels are distinctive. For instance, /i/, F_3 of /i/ is high of all Urdu vowels, F_1 lowest, some times equal (eg. /u/ and /Au/). This distinctiveness may account for its perceptual advantages *visa-vise* other vowels.

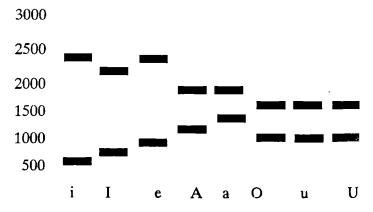


Figure 2: Formant frequency of Urdu vowels.

It can be seen (in figure 2) that the first format (i.e. the lowest in the spectrum) is at a low frequency for the vowels /i/ and /u/ (500 cps) and it is a little higher for each of the vowel /e/ (700 cps), /a/ (800 cps) etc., as can be seen from figure 2. The second formant becomes progressively lowered for each of the vowel in this series. The frequency of the vowel /a/ has the highest F_1 and the frequency of vowel /i/ has the highest F_2 .

If we observe the F₁ pattern of the vowels in a set of words shown in Table II.

Table-II: Resonance parameters for steady-state (vowel) sounds

Vowel	Word	Formant frequencies (cps)			
VOWEI	Wold	$\overline{F_1}$	F ₂	F ₃	
i	mil	500	2500	3000	
I	mIl	550	2200	2800	
Α	mAl	800	1400	2500	
a	mal	850	1300	2300	
U	mUl	550	900		
u	mul	500	800		
e	mel	700	2250	2750	
0	mol	600	1000	2300	

For vowels such as these in/mil, mIl, mel and mal/, the chief cause of the vibration in the frequency of the first formant is the vibration in the size of the degree of constriction in the vocal tract. The tongue is closest to the roof of the mouth for the word/mil, mul etc./, and for each of the other words, it is little close. For vowels such as those

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in/mol, mul, mUl/ the variation in the frequency of the first formant is largely determined by the position of the point of maximum at the constriction at the back of the mouth. As the point of maximum constriction moves further from the glottis, the frequency of the first formant decreases. In some cases such as those in /mil, mol and mul/; as the constriction increases the frequency of the second formant decreases. However, the variation in the second formant may also due to the rounding of the lips.

Acoustic description of Urdu vowels:

/i/: The vowel /i/ seems to possess format frequencies at (F_1) 500 cps., (F_2) is 2000 cps, and (F_3) 2800 cps. The duration varies from 120m.sec. to 260m.sec. and the average is 180m.sec.

/I/: The vowel /I/ has the formant frequencies at (F_1) 550 cps., (F_2) 1800 cps, and (F_3) 2500 cps. Its relative duration varies from minimum 80m.sec. to maximum 120m.sec. and average duration of /I/ is 100m.sec.

/e/: The vowel /e/ has the formant frequencies at (F_1) 700 cps., (F_2) 2000 cps., and (F_3) 2700 cps. The duration of /e/ ranging fom 100 m.sc. to 240 m.sec. and its mean duration is 205 m.sec.

/A/: The vowel /A/ has formed formant frequencies at (F_1) 750 cps., (F_2) 1400 cps., and (F_3) 2500 cps. The duration of this vowel is ranging from 40 m.sec. to 160 m.sec. and its mean duration is 90 m.sec.

/a/: The vowel /a/ seems to possess formant frequencies at (F_1) 800 cps., (F_2) 1300 cps., and (F_3) 2300 cps.

And its relative duration varies from 140 m.sec. to 280 m.sec. and average duration 230 m.sec.

/o/: The vowel /o/ seems to posses formant frequencies at (F_1) 600 cps., (F_2) 1000 cps., and (F_3) 2600 cps. The duration varies from 100 m.sec. to 200 m.sec., the average duration is 160 m.sec.

/U/: The formant frequency of vowel /U/ possess at (F_1) 550 cps., and (F_2) 900 cps. It does not found the forman's further. The concentration of energy may observe due to the influence of following/preceding consonants (especially fricatives). The duration of /U/ is varies from 80 m.sec. to 160 m.sec. and the average value is 110 m.sec.

/u/: The vowel /u/ seems to possess format frequencies at (F_1) 500 cps., and (F_2) 800 cps. Formats will not formed further. The concentration of energy may observe due to the influence of following/preceding consonants (especially fricatives). The duration of /u/ varies from 200 m.sec. to 280 m.sec. and its average duration is 220 m.sec.

Conclusion 3

The measurements of the first three formant frequencies of the vowels show F_1 relatively low for long vowels (i, a, e, o and u) and higher for corresponding short vowels (I, A and U), which means the long vowels are articulated by the body of the tongue more close than the corresponding short ones similarly with in the front vowel group or series the long /i/ has higher F_2 than the short /I/ and among the back vowel series there is opposite position of F_2 from the front vowel pairs in that /u/ has relatively

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lower F_2 than the short /U/. Therefore, both /I/ and /U/ are centralized when compare to their long counterparts. This may be observed on the frequency plots of F_1 and F_2 shown in figure 1. The amount or extent of centralization is more for front vowel pair than the back vowel pair. Thus the so called long vowels are spread out a wider area than the corresponding short vowels.

Within the series of both front and back vowels, the first three formants of vowels all have energy concentrations in the regions below 3000 cps. /u/ and /i/ have the F_1 frequency at 500 cps. which is lowest than other vowels, and /a/ has the highest F_1 around 800 cps. which /u/ has the lowest F_2 around 800 cps., the /i/ has the highest F_2 frequency at 2000 cps.

What is important in this study is that the pairs like i/I, u/U, and a/A – have change in their format positions of both F_1 and F_2 where the frequency of F_1 representing the long /i/ and /u/ are lower than the corresponding short /I/ and /U/ and the frequency of F_2 is higher for /i/ than for /I/ and lower for /u/ than in the case of /U/, thus centralises the short vowels when compared to their counter parts.

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NEWS OF Visiting Se	THE DEI ALTMENT	<i>OPiL</i> : Vol:16-17
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8-11-1991		
&		
11-11-1991	-do-	Language and Mind Development

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TELUGU PHONOLOGICAL STUDIES: A CRITICAL REVIEW

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I would like to start this review with a discussion of a thirteenth century grammar of Telugu – Andhra Bhasha Bhushana by Ketana Kavi. This is assumed to be the first grammar of Telugu, at least in Telugu. Andhra Sabda Chintamani, a Telugu grammar in Sanskrit, is attributed to Nannaya of the eleventh Century, the first Telugu poet. But not all scholars accept it as of Nannaya and as Pre-Ketana.

Ketana's grammar is in Telugu verse – 192 stanzas of four lines each. His fourteenth stanza talks of the relationship between Sanskrit and Telugu:

Mother Sanskrit is to all languages
 Due to her a part is formed
 On her own a part all together
 It got famous in the name of Telugu (14)

He makes a five way distinction of lexical items - tatsama, tadbhava, acca tenugu, desya, grāmya. He defines tatsama as a word with Telugu case marker added to a Sanskrit base. He also says with approval:

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2. The other four save tatsama

All people say are pure Telugu

Gramya no one welcomes

It fits in while condemning others (27)

Ketana makes a very perceptive remark about vowel length in the final position of loan words if the word has more than one syllable:

Leaving aside monosyllabic words
 The length of the word final position
 When pruned the words became Telugu
 They fit into the general pattern (31)

He then quotes $str\bar{i}$, $dh\bar{i}$ and $sr\bar{i}$ as acceptable in Telugu and tells us that in $gaur\bar{i}$, $v\bar{a}N\bar{i}$ and $maN\bar{i}$ the final length is lost. After explaining how Sanskrit loans are nativised Ketana says:

4. I have explained How are uttered the Sanskrit words in Telugu There are others not explained They mix up in Telugu as they are

Now he goes on to explain the phenomenon of Sandhi:

5. The last sound of the first word unleft The first sound of the next word When joined Sandhi is the result I shall explain all these junctions (44) One of the interesting remarks he makes is about the 'nasal' after short vowels and long vowels:

6. The nasal after short vowel letters may be heavy or light. Both are welcome in literary compositions. But on long vowels it will be half (56 & 57).

It seems that by then nasal length and vocalic length were already developing paradigmatic relationship.

Eg. ghanuDu ~ ghanunDu 'big man', kunkuDu $\sim k \overline{u} kudu$ 'soap nut'.

The 'trace' of nasality was represented in literary Telugu in the form of 'ardhanuswaera'.

Ketana notices vowel changes in the vocative case. In some cases 'u' becomes 'a' and in others a short vowel acquires length (102). He also discusses the loss of gemination of a word when it is compounded with another word.

7. Illu, kallu, mullu, pallu, villu kannu, munnu, vennu, cannu When with the consonant of the next word Combined the gemination is pruned (121).

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The demonstrative concept is expressed by \overline{a} (that/those) and \overline{i} (this/that)

8) Verily a, i and e
when with the next syllable
Joined they shorten
and while shortening the next consonant
geminates (136).
eg. i + koduku → ikkoduku (137)

In certain areas of Andhra Pradesh the infinitives of 'nu' ending verbs (eg. tinuța 'eating') have their medial syllable 'nu' reduced to 'anuswara' (tința). Ketana refers to it in his grammar (159). Obviously this is a pretty old phenomenon.

Ketana seems to realize the strong need to bring in meaning to explain phonological processes.

 'ālu' becomes 'rālu' when suffixed to a quality base (168)

eg Javarālu Pātakurālu (young lady) (sinner)

He seems to have noticed also an intricate relationship between long/short vowel and long/short consonant. We have already seen some examples in this regard (8). He notices this relationship in imperatives:

10. While calling others, long letters shorten and carry gemination (171)

Eg.
$$r\bar{a}$$
 - $rammu$ (Come!) $p\bar{o}$ - $pommu$ (go!)

The second set of forms are used even now while subordinating direct narrations:

This gemination is absent if the vowel is short:

Ketana says

are preferable to *malle*, gadde (177). I had once suggested (1972) that 'e' ending forms should have been later developments as e/o do not operate in noninitial syllables. The 'e' forms are very few and they also have alternatives though considered non-standard:

Ketana derives Verbal forms from verb + pronominal suffixes.

For a detailed survey of Telugu grammars see Rajasekhara Sarma (1973).

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The next set of grammars I would like to refer to are Bāla Vyākaraṇam (1858) and Prauḍha Vyākaraṇam (1885). Both these grammars discuss phonology under two headings: sounds and sandhi. Chinnayasuri's Bāla Vyākaraṇam starts with the varnamala of Sanskrit (50) Prakrit (40) and then of Telugu (36). Among Telugu sounds (full) 'nasal' and 'Trace Nasal' (half nasal) are treated as separate sounds. This tells us that the 'sound' here is an abstract entity rather than a surface phonetic entity. A clear division is made between Sanskrit loans and native words.

In other words the Etymological dimension is given due recognition. In the case of consonants the voiced and voiceless distinction is captured by the distinction of *Parusha* (Tense) and *Saraļa* (lax). A clear distinction is made between dental and palatal allophones. They are declared as *savarṇās* – the sounds which are "mutual friends" (*paraspara mitramulu*) as they undergo the same phonological processes.

Words are divided into two groups 'n' ending and 'non - n' ending. This distinction is mainly valuable for sandhi contexts. 'n' is optionally present in surface realization. This points to the fact that the grammarian recognized an underlying representation for each word from which post-sandhi forms are derived through phonological processes.

The 'trace nasal' (ardhānuswharās) can be full nasal only after a short vowel, not after a long vowel. This again establishes the realization that nasality and vocalic length are somehow paradigmatically related. The nasal sound is found in Telugu words only before tense and lax consonants (only stops). If a word is seen with this nasal before

a non-stop one can say it is a non-native word.

Prauḍa Vyākaraṇa by Bahujanapalli Sitharama charyulu does not keep Sanskrit sounds and Telugu sounds separate. Both the sounds are treated as part of Āndhrabhāṣha. Generally the scholars treat this grammar as a complement to Bāla Vyākaraṇam.

Korada Ramakrishnaiah treats sandhi in detail in his book Sandhi (1956). The traditional grammars written in Telugu are very close to the process models in their treatment of sandhi. They take a particular form as basic and derive other forms by means of sandhi rules. Along the lines of multidimentionality, the traditional grammars recognized the nonphonic dimensions of morphology, etymology and variety. Though they do not make an explicit distinction between paradigmatic and syntagmatic dimensions, their treatment of nasality, trace nasal, gemination and vowel length show their awareness of these aspects.

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	Moscow	the Russian Contribution

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DEVELOPMENT OF VERB-FORMS IN TELUGU CHILDREN



Present study combines longitudinal and cross-sectional designs to show the evolution of verb-forms in child language based on evidence from three Telugu subjects, aged between 1:6 and 2:6. This study reveals that a child will have an intermediate stage where two kinds of verb-forms are in alternation before they become stabilized in the speech. The data consists of both spontaneous speech samples as well as elicited speech.

1.0 Telugu-Verb

The Telugu-Verb may be finite or non-finite on the syntactic or the outer distribution level. A finite-verb may be the only constituent of a sentence, while non-finite verb always occurs as a satellite to a finite-verb. On morphological level, a finite-verb always possesses a morpheme indicating person which is lacking in the non-finite (Krishnamurti, 1961). Certain finite forms at the morphological level do not carry the marker indicating person (Ramarao, 1975) - eg. rawaccu 'can come' telusu' 'know'.

1.1 Classification

According to Venkateswarlu (1982) the mood in Telugu verb is of four major types:

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- (I) Indicative
- (ii) Imperative
- (III) doubt expressing
- (iv) subjunctive

Andronov (1970) also indicates that Telugu possesses four types of mood: (I) indicative (II) imperative (III) potential (suppositional) and (iv) conditional (subjunctive). Of all moods, indicative is fully conjugated for PNG and tense. Imperative mood is used in commands, requests, directions; here subject is unspecified second person, and verb always refers to future time.

Hortative (Krishnamurti, 1961) or hortatory (Lisker, 1963 and Sambasivarao, 1969) is sometimes considered to be an imperative (Brown 1840, Arden 1873 and Venkateswarlu 1982). This is formed by adding- $d\bar{a}+m(u)$ to the verb stem and takes first person plural inclusive subject.

Indicative positive form of a Telugu finite verb has the following structure.

	Past	Non-past
1.	$\overline{id}\overline{oldsymbol{x}}$ -nu	īdu-tā-nu
	'I swam'	'I shall swim'
2.	mūs-æ-nu	mūs-tā-nu
	'I closed'	'I shall close'
3.	vinnānu	vin-ṭā-nu
	'I heard'	'I shall listen'
Future	tense in Telugi	has many labellings given by many

people viz, 'Present-future' by Lisker (1963) and Andronov (1970), habitual present and future by Arden (1873; 'viśuddha vartamāna' (simple present) by Venkateshwarlu (1982); future habitual by Krishnamurti and Gwynn (1985) non-past by Sambasivarao (1969), present tense by Brown (1840). Frequently occuring future tense suffix form -tā-comes after the verb stem. Past progressive like 'cēstunnādu' (He was doing) and future progressives 'cēstunTādu' (He will be doing) are present. Past progressive form is also referred to non future durative; (imperfect) present continous tense.

1.2 Non-finite

A non-finite verb is subcategorized into four forms according to its function in the sentence:

- (I) Verbal participle
 - (a) past verbal participle
 - (b) Present progressive verbal participle
- (II) the conditional verbal participle
- (III) the concessive verbal participle
- (Iv) the relative verbal participle

All of these are formed by special suffixes added to the verb stem. The verbal participles of past and present are used to conjoin a sequence of actions while the conditional and concessive are used to indicate respectively a conditional and a concessive relationship between two actions. The relative verbal participles are used to qualify a noun or a pronoun, They may be either affirmative or negative.

In Telugu there are three more forms- the infinitive, the verbal noun, the participial noun. They have been included in the non-finite category by Andronov (1970).

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1.3 Methodology

Present study combines longitudinal and cross-sectional designs to show the evolution of verb-forms in child language based on evidence from three Telugu subjects, aged between 1;6 and 2;6. The subjects are Swati-1;6-a girl, Kaushik 2;0-a boy, Sweta-2;3-a girl. Swati's data is taken from C. Nirmala (1981), whom she studied for six months. Data from the other two children were collected by me, for a period of three months with fifteen days interval between sessions. The data consists of both spontaneous speech samples as well as elictied speech.

1.4 Objectives of the study

It seems a child cannot acquire all kinds of verb-forms simultaneously. There should be an order in the acquisition relating to the age. This study tries to explore the following objectives.

- (a) Present study reveals that a child will have an intermediate stage where two kinds of verb-forms are in alternation before they become stabilized in the speech.
- (b) It gives out, the frequency of finite and non-finite verbs in the production of speech of these children.
- (c) It also focusses on "when the imperatives and the horatives come into existence in the speech"
- (d) It provides a description for the durative verbs and their development in the speech.

1.5 Data

It starts with the first child's i.e, Swati 1;6 acquisition of verb-forms.

1.5.1 Swati had a few verbs with the past tense used in place of non past verbs from 1;6 onwards. She used past forms first rightly in the context.

1;7		CF	
	1.	tințunnā	tinnā
		to eat dur.	eat p
		(I am) eating	(I) ate

Here the child used past form in the place of non-past. 1;8 By this age she acquired non-past forms referring to non past action.

2. AF		CF		
	Pilustā	tiltā		
1(I) will call'	'(I) will call'		

1;9 Here Swati had a confusion or intermediate state where both past and non-past could be interpreted by the investigator.

3.	AF	CF
	amma occindi	ammottini
	'mother came'	mother came/will
	•	come.

At 1;0 she could show a clear distinction between past and non-past, and was able to give past and non-past with the same verb.

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4. AF CF

(a) ostondi ottondi-ottoni

'(She) is coming' '(she) is coming'

(b) occindi ottini
' (She) came' ' (She) came'

Even after showing that kind of distinction, she made a mistake in using same form for past and non-past.

5. AF CF

Koḍatāḍu Kottādu

' (He) will beat' '(He) beat/will beat'

After this stage these past and non-past forms both were clearly expressed by her.

At 1; ll durative verbs emerged in her speech.

6. AF CF

tint-un-nanu tintunna

eat-dur. pre.prog. I sg, '(I) am eating'

'(I) am eating'

This type of construction with durative verbs was not shown with many verbs.

After this stage there were no more alternations between past and non-past. Durative verbs emerged in Swati's speech at 1;11, formed by verbal base+ durative suffix as in adult form (eg.6.). These durative verb forms were used for nonpast.

7. AF CF

tinṭānu tintunnā
'(I)will eat' '(I) am eating'

Hortatives and imperatives were not present in her speech. Swati had only two non-finite verbs in her speech at 1;9 and 1;10.

1;9. AF CF
8. tīsi cūstā tītitūttā
'(I)will open and see '(I) will open and see'

1; 10 (b) tisukoni vastā tikottā
'(I) will take and come''(I) will take and come'
1.5.2. Kaushik - 2; 0 - a boy: He had past and non-pastforms with clear distinction between them by the time I

forms with clear distinction between them by the time I started collecting speech samples from him. At 2; 0 he had shown very productive use of non-finite verb-forms whereas these were not productive in Swati's speech.

2;0 AF CF

9. vacci kottindi vacci kottindi '(It) came and hit' (it) came and hit'

Context: He was playing with an aeroplane when it was in running position. It came and hit him

.

Kaushik at 2;0 did not produce durative forms, these were replaced by non-past forms

10. AF CF

vastunnādi vattundi (AF: vastundi)

' (It) is coming' ' (It) will come'

Context: Referring to a train (a toy) which is moving towards him. It is clear from the context that the expected verb form should be in continuous tense.

11. **AF CF**

peddatta ințiki pootaa peddatta intiki pootunnaa (I) will go to big aunt's house' I am going to big aunt's house.

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Investigator : ippuḍē pōtunnāwā

'now (you) are going '

Child : $\overline{U}h$, amma

' mother'

Investigator: ammawaccækapotāwā

'after mummy comes (you) will go.'

Child : a

'yes'

Utterance (11) clearly shows that the child at 2; 0: 15 used durative form of the verb in the place of non-past or future tense. At 2; 1 durative non-past verb forms were established in his speech referring to proper contexts

12. AF CF

bālādutunnāru bālātunnālu

'(They, are playing ball' '(They) are playing ball' Hortatives and imperatives both were shown at 2; 1:15 in his speech.

13. AF CF

ikkadē rāddāmu ikkalē lāddām
'Let us write here' 'Let us write here'

14. AF CF $r\bar{a}yi$ $l\bar{a}vi$

'write II p.Sg. imp. 'write II p.Sg. imp.

Hortative expressions were many when compared to imperatives at this age in his speech.

Habitual expressions were shown by Kaushik at 2; 2. 2;2.

15. Context : Referring to a face cream.

AF CF
rāsukunṭāru lātukuntālu
'(They) apply
(habitual)' '(They) apply
'(habitual)'

This non-past form is used for habitual purposes even in the

adult model (for me).

At 2; 2: 15 These habitual verb forms were expressed in nonfinite verb constructions.

16. AF CF

vēsukuni pōtāru

'(He)' goes using a

(motor cycle)

CF

ēcuni pōtālu

'(He) goes using a

(motor cycle)

Context: He wanted to say that his father goes on motorcycle to his office.

Before 2;2:15 he had all non-finite in only one type i.e., verbal participle form. At 2;2;15 he used a conditional verbal participle of a non-finite verb.

17. Context: He was saying that "a purse will have money inside" and he was asking me to look into it.

AF CF

kāwālanṭē cūḍu kālanṭēcūlu

'If (you) want, see' 'If (you) want, see'

At this stage these were not productive.

1.5.3 Sweta 2;3-a girl: Sweta had shown a clear stage at 2; 3 as it was in continuation of the earlier child kaushik's (2;0 to 2;3) speech. By the time I started collecting data with her, she had past, non-past, duratives, hortatives and imperative forms in her speech. As for the non-finite verb forms, she used verbal participle constructions productively and quite a few conditional verbal participle forms at 2;4 and 2;5. At 2;5 she used causative constructions.

2;5 AF CF
18. teppistundi teppittundi
'(She) will make
(someone) to get' '(someone) to get'

At 2;4 she could describe past event in progression with nonpast durative form. 32 V.SAILAJA

Context: She was giving information about what happened in the morning, when her father was putting something.

19. AF CF
dadi pedtunnāru.... dadi pettunnālu....
'daddy was putting.... 'daddy was putting.....

1.6 Results

I report the results obtained from this study on the development of verb-forms in the above children as they are in the order.

First child Swati (1;6) used finite verb froms extensively from the beginning i.e., from 1;6 onwards. At 1;9 & 1;10 only two non-finite forms were shown in her speech (8a & b). In her speech past forms (1;7) evolved first and followed by non-past forms (1;8). And then at 1;9 she mixed these two functions and expressed by one form as a result both the functions could be interpreted by the investigator. By 1;10 she could attain a stage where both the forms were stabilized in her speech. At 1;11 duratives, emerged in her speech, but they were not productive. Hortatives and imperatives were not available in her speech.

The above stage of aquisition of verb-forms was continued in Kaushik's (2;0) speech. He got past and non-past as well placed in his grammar. At 2;1 he was able to produce hortatives and imperatives (eg. 13 &14 respectively). Non-finite verb forms were many at 2;0 itself and these were all of verbal participle formations (eg.9) and they were productive in his speech. At 2;0 he started using non-past in place of durative non-past (eg.10). At2;0;15 he used durative verb form in place of non-past form (eg.11). By 2;1 durative non-past verb-form were well used in his speech. He crossed the intermediate stage between non-past and durative non-past by 2;1. Even though, the durative form was settled (eg.12),

it was not productive in his speech. At 2;2 habitual verb forms (expressed by non-past form even in adult model) were present in his speech (eg. 15). These expressions were even used in non-finite verbal constructions (eg.16) at 2;2:15. At 2;2;15 he had one conditional verbal participle (eg.17).

Sweta (2,3)- a girl, also expressed an idea through her study, as if she was continuing the acquisitional processes in the growth of verbforms, from kaushik (2;0-2;2:15). Sweta by 2;3 had past, non-past, progressives/duratives, hortatives imperatives, and habituals in her speech. In Sweta's speech duratives (non-past) were very productive by 2;4. The advancement in her, was, that she could make use of durative verb-form for describing the past event. This was not at all present in the other two children. Past habituals were not present even in this child. At 2;5 she had causative verb forms. The conditional verbal participle of non-finiteverb forms were improved in her speech. The verbal participles, which were used by kaushik and Swati, were only restricted to future, past verbal participle construction was used by Sweta to represent past function. Other kinds of non-funite forms were not present. All the results have been tabulated according to the developmental stages in the following tables I & II.

1.7 Discussion

From the results, my observations through this study are supporting the objectives which are taken for the present study. I have given the data in the order of development of verb-forms from one stage to the other. The study shows very clearly that past forms come first and early and will be followed by non-past forms. C. Nirmala (1981) has proposed the same idea which substantiates my observation. Although

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Nirmala's work is a descriptive study based on evidence from Telugu children, it does not reveal the developmental stages. as far as verb-forms concerned. It does not tackle the intermediate states where child is kept under an alternation stage in choosing and using of forms. Some western works also substantiate my observations regarding the acquisition of past verb-forms. Stephany (1981) has reported that during an early phase of acquisition of Modern Greek children used activity verb as well as telic verbs in past tense form. Regarding syntactic component of the argument Radulovic (1975) observed that during his acquisition of serbo-croat of the age 2;0-2;2, past froms were imperfective and these include activity verbs. Smoizynska's (1978) study shows imperfective activity verbs in the past form can also be found in the early corpora of children learning polish. (CF.Weist 1984)

In this study, a verb is classified as finite or non-finite and both forms were used in the past forms by these children. In the non-finite form as verbal participle, the non-finite verb is shown in past tense and the finite verb, which is supposed to indicate for person number, gender, is in non-past form. Durative forms seem to be late in the acquisition when compared to past and non-past in this study.

There are two more studies which contradict my observations regarding acquisition of past form. They are studies of Dipaolo & Smith (1978) and Harner (1981) who worked with American children and found that even 3 years old children have some capacity to use past tense inflections to describe only 50% prior situations, this weak performance improved with their age.

Present study also reports that hortatives and impera-

tives take precedence over habitual forms. This study does not explain the reflexives, as I did not include them in it. I observed through this study, that Sweta, who is older child among three, could use all three forms - hortatives, imperatives habituals in productive manner.

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Table 1

Name	Age _	F	inite		_	Non-	Infinite
of child		Past (p)	Non- past (n-p)	dura tive (dur)		Verbal participle	Condi- tional verbal participle
Swati	1;7 1;8 1;9 1;10	p p p/n-p p	p p/n-p p/n-p n-p		- - - -	one verb	- - - -
	1;11	p	n-p	(dur.	-	-
Kaushi	2;0;15 2;1 2;2 2;2;15	P P P P	n-p n-p/d n-p n-p n-p	ur (dur. dur/ dur dur dur	_	- - - oneform
Sweta	2;3 2;4	p p	n-p n-p			produc- tive produc- tive	many productive
	2;5	p	n-p	•	dur	produc- tive	produc- tive

Table - II

Name of Child	Age	Horta- tives	Impera- tives	Habituals
Swati Kaushik	1;6-1;11 2;1 2;2	many productive	a few many	- - a few
Sweta	2;3-2;6	productive	productive	productive

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STATIVE EXPRESSIONS IN INDIAN LANGUAGES (Some Semantic and

(Some Semantic and Syntactic Aspects)*

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An attempt is made in this paper to present some semantic and syntactic properties of stative predicates in Telugu which are also known to be common to many other languages of India. The essential characteristics of statives are as follows:

- 1. Expressions representing 'states' are typically abstract nouns or adjectives which fall broadly into such semantic categories as mental, physical, instinctive, impulsive, climatic, accidental and qualificatory (qualitative, dimensional, color), etc. Such a classification (combined with other specific semantic features) accounts for a number of syntactic consequences apparent in sentences containing stative predicates.
- 2. Stative predicates typically carry the feature [-Agentive] according to Gruber (1965:135-68). According to Lakoff (1966) statives do not occur as 'true imperatives', lack progressive aspect (be----ing) and do-so pro-forms. Lakoff suggests that [+Stative] should be assigned as an inherent feature of a verb in deep structure. He, however, does not discuss the semantic structure of verbs which require this feature assign-

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ment. Fillmore (1968: 30-1) suggests that Stative predicates require a Dative case whereas active verbs an Agentive case in their deep structure. The contrast is shown in the frame features of verbs as [——D] for Statives and as [——A+0] for actives.

- 3. Stative expressions are minimally one-place or one-argument predicates, e.g. John is hungry = H(a), where H = 'be-hungry', a = 'John'. It is possible to consider climatic states as minimally zero-place predicates in which the zero is replaced by a dummy subject it in English, e.g. It is cold = $C(\emptyset)$ (Leech 1970: 68). In Telugu, such expressions lack a surface subject, e.g. caligā undi 'it 's cold'.
- 4. All statives (with, perhaps, the exception of climatic) represent conditions that occur to animate beings or objects and therefore cannot be expressed independent of the beings or objects that 'have' them or 'undergo' them. In other words, 'states' are attributes which do not exist independent of 'possessors' of such attributes. Only in a philosphical or metalinguistic sense can one talk of 'tallness', 'hunger', etc. as in what is 'hunger'?, what is 'tallness'?, etc. Even when we use words like 'poverty', 'intelligence', 'anger' in sentences without expressing the possessors of these states, they are always understood as states relevant to human beings: Poverty is the worst enemy of mankind.
- 5. There are three basic ways of framing propositions with stative predicates, perhaps, in all languages of the world. (I use the following formalism in order to make some generalizations about statives in Indian languages.)

Let P = Possessor of a state (animate being or object) and S = State, and $+, :, \leftarrow$, predicators, then

- I (a) P: S = To P, there is S
 - (b) P:S = P is S
- II (a) $P \leftarrow S = \text{To } P, S \text{ occurs, comes, etc.}$
 - (b) $P \leftarrow S = \underline{P}$ becomes S
- III (a) P+S = To P, S is (habitually)
 - (b) P+S = P has S (habitually)

Ia and Ib are synonymous with only difference in focus. In Ia it is the state (S) that is predicated and in Ib it is the possessor (P) that is predicated, e.g.

- (1) $w \overline{a} \dot{q} i k i \overline{a} k a l i g \overline{a} u n d i$ (= P:S) he-to hunger is-it 'he has hunger'
- (2) $w \overline{a} du \overline{a} kalig \overline{a} unn \overline{a} du (= \mathbf{P} : \mathbf{S})$ he hunger is-he 'he is hungry'

Notice that undi(3 n. sg.) has agreement with the grammatical subject S (i.e. $\overline{a}kali$ 'hunger'), and $unn\overline{a}du$ has agreement with the subject P (i.e. $w\overline{a}du$ 'he'). In the case of qualitative states, which are not characteristically human, only propositions in which P is predicated occur and not the P: S type.

(3) $w \overline{a} du podugug \overline{a} unn \overline{a} du (= P : S)$ 'he is tall'

but not

(4) * $w \overline{a} diki podugug \overline{a} undi (=*P : S)$ 'to him is tallness'

On the other hand, climatic states in Telugu can be predicated only in $P : \underline{S}$ type of propositions and not in P : S (cali 'cold'):

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(5) wā diki caligā undi (P:S)

'to him, there is cold' or 'it is cold for him'
but not

(6) $*w \overline{a} \underline{d}u \ calig \overline{a} \ unn \overline{a} \underline{d}u \ (P:S)$ 'he is cold'.

Notice that, even in English, with the exception of 'cold' and 'heat' and their variants, the other weather conditions like 'rain', 'fog', 'snow', cannot be predicated as human experiences, as would be in *he is rainy, * he is snowy, etc.

Propositions IIa and IIb are again synonymous, although IIb is restricted only to qualificatory states, e.g:

- (7) wā diki ā kali awutunnadi he-to hunger is occurring 'he is getting hungry'
- (8) $w \overline{a} du podugu awutunn \overline{a} du$ 'he is getting tall'.

Telugu and the other Indian languages generally employ Ia and IIa, whereas English Ib and IIb. The difference between (a) and (b) in each case is thus a surface difference and they are perfectly inter-translatable. I and II are not synonymous, since a proposition of Type II can be contradicted by a proposition of Type I and vice versa.

(9) a. He is getting hungry, but he is still not hungry.b. He is not hungry, but he will get hungry (soon).

If the 'time' identified by the stative predicate in II is prior to the 'time' identified by that in I, we have a logical contradiction. (10) wā diki ā kali ayndi kā ni wādu ā kaligā lēdu '? He got hungry but he is not hungry'

Type III with the absence of $-g\overline{a}$ following S is characteristically employed in a truly possessive sense where the possessed is [+ concrete]:

(11) wā diki illu undi to-him a -house is-it 'he has a house'

A small set of statives which are more external and non-transient occur in propositions of IIIa type.

(12) wā diki bhā gyam undi to-him wealth is 'he has wealth'

These are mostly the states which occur in English sentences like X has y: he has competence, he has education, etc. Notice, on the contrary, this frame cannot be employed for instinctive and impulsive states in English, e.g. *John has hunger.

Since most Indian languages lack the verb 'have', IIIb does not occur. As in the case of I and II, IIIa and IIIb are synonymous and inter-translatable.

6. Propositions of types I and II can be expressed either referentially (referring to a particular P or a particular S) or generically. These contrasts are expressed in Telugu in the verb inflection (aspectual), whereasin English they are manifested by the choice of the article and or by the form of the verb (tense-aspect), or by a manner adverbial. The concerned semantic feature may be termed [±Definite].

Ia. P:S (+Def.) (13) $w \overline{a} diki \overline{a} kalig \overline{a} undi$ to him there is hunger 'he is hungry' 44 Bh.Krishnamurti

(-Def.) (14) wā diki (eppudū) ā kaligā untundi to him there (habitually) is hunger (always) 'he is always hungry'

b. P: S (+ Def.) (15) w ā ḍu ā kalig ā unn ā ḍu
'he is hungry'

(-Def.) (16) w ā ḍu eppuḍū ā kalig ā untaḍu
'he is hungry always'

II a. P← S (+Def.) (17) w ā ḍiki ā kali wēstunnadi
to him hunger is occuring
'he is getting hungry'

(-Def.) (18) w ā ḍiki eppuḍū ā kali wēstundi
to him always hunger occurs
'he always becomes hungry'

Verbless equative sentences in Telugu can be derived by positing [-Def] as a feature of the predicate in the deep structure.

(19) ā yana peddamanişi 'he (is) a gentleman' (20) wā ḍu poḍugu 'he (is) tall'

Sentences like (20) can be derived from sentences like (3) by optionally deleting the predicator, if the state mentioned is [+Qualificatory] and if there is a feature [-Def] attached to the predicate.

7. In the above formalism, the symbol complexes [:S] $[\leftarrow S]$ [+S] should each be taken as a predicate consisting of a stative noun or adjective (S), and a predicator (: + \leftarrow) represented by an auxiliary verb or copula. In the case of

statives characterizing the 'existential aspect', the predicator (:+) is typically the verb 'to be' (Te. un-). The 'transitory aspect' of states is predicated by a closed set of verbs meaning 'come', 'occur', 'hit', 'strike', etc. The common ones for Telugu are: wacc- 'to come', aw- 'to happen, occur', $w\overline{e}s$ - 'to happen (intensely)', tagulu 'to hit, strike', patt- 'to stick', $c\overline{e}s$ - 'to do'. The selection of these is conditioned by the semantic structure of the stative nouns or adjectives which they follow. Thus instincts and certain emotions come, 'fear', 'cold', 'heat' and 'viral diseases' hit, madness sticks or rises (details discussed below).

The predicators are all intransitive verbs and therefore cannot take -kon (refl.) which is the property of Agentive verbs alone, e.g. wandu 'to cook', wandukon 'to cook for oneself'. Both semantically and syntactically these predicators behave differently from their homphonous forms used as main verbs. The causative of wacc 'to come' as main verb is rappinc 'cause someone to come', but in its use as a predicator of statives its causatives are ces- 'to make' and tecc 'to bring', e.g.

(21) a. nā ku ā sangati jnā pakam waccindi
to me that fact memory came
'I remembered that fact'
b. wā ḍu nā kuā sangati jnā pakam tecc 壺ḍu/
cē s 壺ḍu
'he brought that fact to my memory' or
'he reminded me of that'

Notice that even in the causative sentence, the noun denoting 'possessor' of 'state' still remains in the dative case. When an active verb is changed into a causal, the subject NP of the active sentence takes the instrumental case in the Causative sentence. 46 Bh.Krishnamurti

(22) a. w ā du pani cē s ædu
'he did the work'
b. nēnu wādic æta pani cē yinc ænu
'I got the work done by him'

Before presenting some details about the semantic structure of statives, it would be helpful to explain a few grammatical facts of Stative sentences in Telugu. The surface representations of (Ia) P:S and (Ib) P:S are as follows:

Ia.
$$P: S = Pku - S g \overline{a} \quad undi / unnadi$$

b. $P: S = P - S g \overline{a} \quad unn \overline{a} du$

(-ku 'to' (dative morpheme); un- 'to be', -ga 'manner, like' (Stativizer)'. un 'to be' is a defective verb which has the following inflection in finite forms:

Non-future				<u>e-habitual</u>	
3	sg.m	un-nā-ḍu	'he is/was/	un-ṭā-ḍu	'he will be, he
			has been/		habitually is'
	pl	un-nā-ru	'they are/were/	un-ṭā-rư	they will be,
	(hum)	have been'		they habitually are"
3	sg	un-na-di/	'she or it is,	un-ṭu n- di	'she or it will
	f.n.	un-di	was, has been'		be/habitually'
					is
	pl.	un-n a -y	'they are were/	un-ṭā-wu	'they will be/
(n	on-hui	n)	have been'		habitually are'
2	sg	un-n a -wu	'you are/were/	un-ṭā-wu	'you are/were/
		•	have been'		have been'
	pl.	(same as for	r 3 human pl.) 🐇		
1	sg	un-nā-nu	'Iam/'was/have	un-ṭā-nu	'I will be/
			been'		habitually am'
	pl.	un-nā-m	'we are/were/	un-ṭā-m	we will be/
			have been'	•	habitually are

A pecularity of this verb is that its grammatical past tense is used for all non-future tenses and aspects. Compare, for instance, the paradigm of tin- which belongs to the same morphophonemic class as un-; tin- $n\bar{a}$ -nu'I ate', tin-t- \bar{a} nu'I habitually eat'. There is no simple present form 'I eat' here, as in the case of un- $n\bar{a}$ -nu'I am'. The durative form of all other verbs are derived by adding the inflected forms of un- to a bound non-past stem, e.g. tin-t-un- $n\bar{a}$ -nu'I am/was/have been eating'. $-g\bar{a}$ is added to stative nouns and adjectives before the copula un-. Its function seems to be that of an 'adjectivizer', e.g.;

- (23) $g \overline{o} da tellag \overline{a} undi$ 'the wall is white
- (24) $w \overline{a} \underline{diki} \overline{a} \underline{kalig} \overline{a} \underline{undi}$ 'he is hungry'
- (25) wā diki ā kali undi, rucilē du 'he has hunger, but no taste'

The contrast between (24) and (25) seems to be that in (24), the state identified by \overline{a} kali is tied up with definite time reference, whereas in (25) it is mentioned as a 'state' coexisting with the 'possessor' without definite time reference, in the same way that 'has' is interpreted in 'he has intelligence' in English.

In the following the semantic structure of Statives is examined tentatively. The substantial semantic categories are:

- a. Instinctive: hunger, fear, sleep, waking, etc.
- b. Impulsive: anger, sorrow, joy, distress, arrogance, etc.
- c. *Mental/Psychological*: memory, forgetfulness, intelligence.

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d. Characteristically human and humane: kindness, honesty, carefulness, anxiety, happiness, misery, beauty, ugliness, wealth, poverty, fame.

- e. Health conditions:
 - (i) General: good health, illness, fever, etc.
 - (ii) Specific (names of diseases): malaria, typhoid cholera, headache, etc.
- f. Climatic:
 - (i) Human experiences: cold, chill, heat, warmth
 - (ii) Others: fog, snow, rain, sunshine, moonlight, etc.
- g. Accidental States: luck, profit, loss, etc.
- h. Qualificatory or Attributive ('true adjectives'):
 - (i) Measure: long, short, tall, stout, slim, broad, etc.
 - (ii) Qualities perceivable by touch: hard, soft, smooth, rough, etc.
 - (iii) Qualities perceivable by eye: white, black, red, ugly, beautiful, etc.
 - (iv) Qualities perceivable by tongue: salt, pepper, hot, bland, sweet, sour, bitter, astringent, etc.
 - (v) Qualities perceivable by nose: fragrance, stink, etc.

Redundant Features

_Categories (a) - (g) (except f ii) are all [± Animate]; (a) is [+Human]; (b) - (e) are [+Human] (h) is [+ Animate]; states listed under (h iv) require [+ Human] as experiencer and [-Animate] as the object possessing the quality, e.g.:

(26) ($w \overline{a} diki$) $\overline{i} pandu tiyyag \overline{a} undi$

'this fruit is sweet (for him)'.

In such expressions the 'experiencer' is not expressed. [+Transient]:

Certain states are more transient than others. Those under (d) are more spread out in time than instinctive and impulsive states. This is reflected by the absence of $-g\overline{a}$ in the former:

(27) a. $w \overline{a} diki j \overline{a} garta undi$ 'he has carefulness' [IIIa]
b. $w \overline{a} du j \overline{a} gartag \overline{a} unt \overline{a} du$ 'he is watchful, alert'

but not

c. *wādiki jā gartagā undi [IIa]

Compare these with:

d. $w \overline{a} diki k \overline{o} pamg \overline{a} undi$ [IIa] 'he has anger'.

It has already been explained that where a given stative occurs both as $P: \underline{S}$ and $P+\underline{S}$, the latter means a habitual (nontransient) state and the former a transient state. The point here is that 'some statives' are always treated as though they are [-Transient] and they lack propositions of $P:\underline{S}$ type, e.g. daya 'kindness', $n\bar{i}ti$ ' honesty', $j\bar{a}garta$ ' alertness', $bh\bar{a}gyam$ 'wealth', daridram 'poverty', garvam 'arrogance', sukham 'happiness', caduwu 'education', $k\bar{i}rti$ 'fame', etc. These are mostly the ones which occur in English as 'Z has Y' from which 'X is Y' is transformationally derivable: John has fame =John is famous.

[±Marked] or [±Positive]

(28) a. wā diki jnapakam undi (P+S) to him, memory is 'he remembers'

There is no - $g\overline{a}$ expression for this:

b. * $w \overline{a} diki jnap \overline{a} kamg \overline{a} undi (*P : \underline{S})$

'Memory' is a positive (unmarked) state of the mind, just as 'seeing' is an unmarked state of the eye, and 'hearing' that of the ear, so on and so forth. Most languages have expressions only for negative (marked) states and not for the unmarked ones. Notice that we can say in English:

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[+Marked] [-Marked]

(29) a. He is blind: *He is? [able to see]

b. He is deaf: *He is? [able to hear]

c. He is mad: He is? [? normal]

d. He is lame: He is? [able to walk normally]

e. He is forgetful: *He is memoryful

When there is an attribute, the unmarked states become marked and have P + S type of expressions: he has good sight, he has good hearing, he has good memory, etc. In Telugu also Stative expressions occur for [+ Marked] or [-Positive]. Those carrying this feature occur as P + S without $-g\overline{a}$. In other words, they behave like [-Transient].

- (30) $w \overline{a} diki cewudu (undi) = P+S \text{ or } P \emptyset S.$ 'he has deafness'
- (31) w a diki picci (undi) 'he has madness'

In the case of $jn\bar{a}pakam$ 'memory' [-Transient] \rightarrow [+Marked].

[±Recurring]

This feature accounts for states whic. 'come', 'hit', as opposed to those which 'occur', 'happen'. Appropriate predicators are selected by this feature.

kulāsā 'being in good' health' [-Rec.] jwaram 'fever' [+Rec.]

(32) a. wā diki kulā sā gā undi (P:S)

It is fine for him 'he is fine'

b. wā du kulāsā gā unnādu (P:S)
'he is fine'

but not

c. * wā diki kulā sā waccindi (P←S)
'good health come to him'

As opposed to

- (33) a. $w \overline{a} \underline{d}iki k \overline{o} pamg \overline{a} undi$ (P:S) 'to him there is anger'
 - b. $w \overline{a} du k \overline{o} pamg \overline{a} unn \overline{a} du (P : S)$ 'he is angry'
 - c. wā diki kō pam waccindi (P ← S)
 'anger came to him'
 'he became angry'

The features [± Recurring] may be utilized to distinguish between 'states with accompanying feelings' and 'states without feelings, Consider, for instance,

- (34) a. He is rich (intelligent, beautiful, etc.)
 - b. *He feels rich (intelligent, beautiful, etc.)
 - c. He is sleepy
 - d. He is feeling sleepy
 - e. He is awake
 - f. *He is feeling awake

[+Recurring] specifies several states besides instinctives and impulsives which are generally characterized as 'feelings'. In Telugu some of the non-feeling states specified by [+Recurring] are: picci 'madness', nawwu 'laughter', ē dupu 'crying', pogaru 'arrogance', kala 'dream'. These occur in P←S with wacc- 'to come' as the predicator.

[-Recurring]: teliwi 'intelligence, $j \bar{a} garta$ 'alertness', andam 'beauty', etc. These require kalugu 'to happen' as predicator in PeS type of expressions.

[±Recurring]: lā bham'profit', naṣṭam'loss', sandē ham'doubt', melakuwa 'waking from sleep', santōṣam 'joy, sukham 'happiness', dukkham 'misery'.

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[±Tangible]

kala 'dream' is in a class by itself. It occurs only in IIa type of proposition P-S with wacc - as the predicator.

- (35) a. wāḍiki kala waccindi
 'a dream came to him' or
 'he dreamt'
 - b. *wādiki kalagā undi 'to him, there is a dream'
 - c. *wadu kalaga unnadu '*he is dreaming'
 - d. *wadiki kala undi '*he has a dream'.

The impossibility of b,c,d is due to the fact that 'dreaming' is a state for which the speaker has no apparatus to judge with. This shows that statives, by and large, are expressions of states from which there is some tangible evidence for the speaker to make judgments about. All statives which can characterize animate beings or objects in the form 'P has S', or 'P is S' are [+ Tangible].

[±Inherent] or [±Quality]

In predicating qualificatory states (see (h) above), Telugu and the other Indian languages do not have the normal sentence types Ia (P:S), IIa $(P \leftarrow S)$, IIIa $(P+\underline{S})$. Instead, they have Ib (P:S), IIb $(P \leftarrow S)$, and IIIb (P+S)

- (36) a. wādu poduggā unnādu (P:S)
 - 'he is tall'
 - b. wāḍu poḍugu awutunnāḍu (P S) 'he is becoming tall'
- but not c. *wāḍiki poḍugugā undi (P ← S)
 - 'he has tallness'
 - d. *wādiki podugu waccindi (P: S)

'tallness came to him' 'he became tall' In the case of IIIb = P + S, Telugu optionally deletes the predicator un- 'to be'

e. wādu podugu 'he is tall' adi podugu 'it is tall'

It appears that there is a basic distinction between 'true statives' and 'qualities'. The latter are qualities which are basically inherent to beings and objects and therefore require that the possessor of these be predicated. It would be interesting to explore if there is any language in the world which would express a sentence like

- (37) a. The mountain is high
- as b. *There is height to the mountain.

Secondly most of these are marked [±Animate] whereas true statives are [± Animate]. This is perhaps what distinguishes true adjectives from stative adjectives, e.g. white vs. wise.

- (38) a. John is wise (**P**: S)
 - b. John has wisdom (P + S)
 - c. The wall is white (P:S)
 - d. *The wall has whiteness.

Summary of Conclusions

1. True statives are all marked [+ Animate] and [-Agentive]. True adjectives which look like statives in surface structure have deep structure differences which are manifested in syntax differently in different languages.

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- (39) a. John is cold [True Stative]
 - b. It is cold for John.
 - c. John is dark [True adjective]
 - d. *John has darkness

In Indian languages 'true statives' characteristically occur with 'Possessor' in the dative case, and 'true adjectives' do not have this property.

- 2. All stative expressions occur in three basic types of propositions.
 - Ia. To P, there is S
 - b. P is S
 - IIa. To P, S comes, occurs
 - b. P becomes S
 - IIIa. To P, S (is) (Habitual)
 - b. P has S (Habitual)

Indian languages generalize Ia, IIa, and IIIa, whereas English and other European languages generalize Ib, IIb, and IIIb. (a) and (b) are true translation equivalents and are therefore synonymous. It appears that no language uses 'true adjectives' in propositions of the type Ia, IIa, and IIIa.

- 3. The semantic structure of stative expressions can be described in terms of complex symbols consisting of substantive features plus such general features as [±animate] [±Human], [±Definite], [±Transient], [±Inherent], [±Marked], [±Recurring], etc. This area needs to be explored more intensively.
- 4. Climatic statives may be specified [+Locative] and [+Animate]. The minimal argument of a climatic stative expression is ø or a Locative phrase.

- 5. The predicators of stative expressions are of two classes (1) copula 'to be' in predicating the 'existential aspect' of states; (2) auxiliaries, generally implying 'motion' or 'happening' in predicating the transitory aspect of states. The characteristic predicators of this class in Indian languages mean 'come', 'occur', 'hit', 'strike', etc.
- 6. A thorough analysis of stative expressions in Indian languages along the lines suggested here will throw light on the inter-translatability of these languages, in addition to providing insights into language universals.
- 7. Some languages may use simple verbs in the place of a noun/adjective + be, come, etc. Te. kala wacc 'a dream to come' = English 'to dream'. Even the same language may use alternative expressions of this sort, Hindi $n\bar{i}nd$ $\bar{a}n\bar{a}$ 'sleep to come' as well as $s\bar{o}n\bar{a}$ 'to sleep'. These facts look like surface features, language specific or idiosyncratic. However, hypothetically, it appears that languages which generalize Ib, IIb and IIIb types of propositions tend to use simple stative verbs more extensively than those which generalize types Ia, IIa, and IIIa. English belongs to the former group and Indian languages to the latter. If this is found true, we have one more parameter for studying language typologies.
- 8. The absence of 'imperative', 'do----so' pro-forms and other such syntactic clues are a direct consequence of the semantic structure of stative predicates which distinguishes them from non-statives and actives. some of these syntactic properties are language specific and not universal like the absence of the progressive aspect 'be-ing' for stative verbs know, see, hear, etc. as opposed to learn, look and listen. Telugu has the progressive aspect even with verbs like kanabadu 'to appear', winabadu 'to be heard, etc.

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9. That all statives have two aspects, 'existential' and 'transitory', seems to emerge as a language universal. These may be called 'stative' (existential) and 'enstative' (transitory) aspects of stative predicates. Enstatives like 'become hungry' 'get angry' should not be called actives simply because they can occur as 'be---ing' forms.

10. A thorough analysis of stative expressions in Indian languages along the lines suggested here will throw light on the intertranslatability of these languages, in addition to providing insights into language universals.

The appendix to this paper presents a list of stative predicates in Telugu with corresponding predicators, and the types of the underlying propositions in which they occur in terms of the conventions set up in this paper.

Appendix

A. [+Human, -Conscious]
Pred.

This belongs to a class by itself as explained in the paper. The following expressions are ungrammatical.

The following selectional features are assigned to this item: [+Transient, +Recurring, -Tangible, - Inherent]. With the redundancy rule [- Conscious] → [- Tangible], we can eliminate [- Tangible] from the matrix.

B.(i)

^{*}nāku kalagā undi 'to me, it is dreamy'

^{*}nēnu kalagā unnānu ' I am dreamy '

^{*}nāku kala undi 'I have a dream'

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(8) garvam un wacc ++++-+- vanity

Pred. I II III

I II (a) (b) (a) (b) (a) (b)

(c) (c) P:S P:S P
$$\leftarrow$$
 S P \leftarrow S P + S P+S

(9) siggu un kalugu + + + - + - shyness

wacc

(10)dukklıamunkalugu + + + - + - sorrow

(11) suklıam un kalugu + + + - + - happiness

(12) aduru un kalugu + + + - + - anxiety

Instincts are [+Animate], impulses are [+Human]. All the four possible types occur in most cases, the blanks being

idiosyncratic, e.g.

P:S wādiki garvamgā undi 'he is vain'

P:S wādu garvamgā unnādu

P←S wādiki garvam waccindi 'he became vain'

P+S wādiki garvam undi 'he has vanity' (habitually)

All these can be marked [± Transient]. All Instincts are [+ Recurring]; sukham (11) 'happiness' is [-Recurring]. All Instincts and Impulses are [+Tangible] and [-Inherent].

C.(i)

[+Climatic,-Ani,+Location]

Pred I II III

I II (a) (b) (a) (b) (a) (b)

(c) (c) P:S P:S P
$$\leftarrow$$
S P \leftarrow S P+S P+S

(5) mancu un padu + - + - + - snow

(6) wāna un kurus + - + - + - rain

(7) wennela un kās + - + - + - moonlight

(8) gāli un koṭṭ + - + - + - wind

wīc

States marked [-Human] cannot be predicated as human experiences. P:S & P S have either no grammatical subject or they carry a locative complement. (ikkaḍa) wānagā undi 'it is rainy (here)', not *nāku wānagā undi '*to me, it is rainy'. Only cali 'cold' and ukka 'stuffiness', eṇḍa 'sun', cīkaṭi 'darkness' can be predicated as human experiences with State as focus, e.g. nāku caligā undi 'it is cold for me', nāku cīkatigā unnadi 'it is dark forme'. Even here the possessor cannot be focussed as in English, e.g. I am cold (*nēnu caligā unnānu).

All climatic states can occur normally with Locative compliments, L:S, $L \leftarrow S$ (L = Locative phrase)

akkada wānagā undi 'it is rainy there' akkada wāna kurisindi 'it rained there', etc.

+ - fever

These states are basically divided into two:

```
[± Human] 'cold' 'heat' 'sun' 'dark'
[- Human] 'rain' 'snow' 'moonshine' 'wind', etc.
```

All climatic states are [+ Transient, +Recurring, + Tangible, - Inherent].

D. (i)

[+Health, - Common]

Pred

```
I
                                      II
                                               III
                        (a) (b)
                                   (a) (b)
                                             (a) (b)
                 II
              (:)(←)
                        P:S P:S P\leftarrowS P\leftarrowS P+S P+S
                                            ? - good health
1. kulāsā un cikk
2. ārōgyam un kalugu
                                              + - good health
3. jabbu un wacc
                                               + - sickness
4. susti un ces
                                               - - ailment
```

(ii) [-Common]

5. jwaram un wac

```
6. kalarā - wacc - - + - - cholera
7. malēriā - wacc - - + - - malaria
8. ṭayfāyiḍ - wacc - - + - - typhoid
9. ṭībī un wacc - - + - TB
10. picci un wacc - - + - + madness
11. cewudu un wacc - - + - + - deafness
```

General health conditions are specified as [+Common]. Specific diseases are [-Common]. All are [+Human]. A feature [+ Good] may be utilized to distinguish ārōgyam'good health' as [+Health, +Common, +Good] from susti 'ailment'[+Health, +Common, -Good] Diseases are

specifiable as [+Health, - Common, -Good]

General health conditions and chronic diseases are [-Transient]; viruses are [+Transient]. 'Good health' is [-Recurring], 'bad health' and diseases are [+Recurring]. All are [+Tangible] and [-Inherent], e.g.

```
wāḍiki jabbugā undi 'he is ill'
wāḍu jabbugā unnāḍu
wāḍiki jabbu cēsindi 'he became ill'
wāḍiki jabbu undi 'he has illness' (Chronically)
*wāḍiki kalarāgā undi 'he is choleric'
*wāḍu kalarāgā unnāḍu
wāḍiki kalarā waccindi 'he got cholera'
*wāḍiki kalarā undi 'he has cholera'
```

E. (i)

[+Animate, + Accidental]
Pred

The first three are [+Human], the last [+Animate]. All are [+Recurring], [+Tangible]; the last is [+Transient], but others are [±Transient]. We cannot say

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*wādiki cāwu undi 'he has death'

as though death is a non-transient state or possession. But wādiki adrustam undi'he has luck' is grammatical. (2) and (3) can occur in P:S or P:S as two-argument predicates

wāḍiki wyāpāram lō lābhamgā undi ? wāḍu wyāpāramlō lābhmgā unnāḍu

Pred

'It is profitable for him in business' 'he is profitting in business'

Ш

F.

[+Health . -Instinct, - Impulse, + Common]

```
(a) (b)
                                       (a) (b)
                    Π.
                                                       (a) (b)
                            P:S P:S P \leftarrow S P \leftarrow S P + S P + S
                (:) (←)
(1) ināpakam un wacc
                                                       memory
(2) daya - -
                un
                    kalugu
                                                       kindness
(3) niti
               un
                                                       morality
(4) nijāyiti .
               un
                                                       honesty
(5) jägarta
               un kalugu
                                                       alertness
                                                       care
(6) sukham
               un kalugu
                               - +
                                                       bappiness
(7) dukkham
               un kalugu
                               - ?
                                                       misery
(8) wicaram
                    kalugu
               un
                                                       sadness
(9) bhagyam
               un wacc
                                                       wealth
                    kalugu
(10)daridram un
                  wacc
                                                       poverty
(11) kirti
               un
                    wacc
                                                       fame
```

I

II

All the states in this class can be specified by the matrix [+Human, -Instinct,-Impulse,-Health.] All of them are [-Transient], [+Tangible], and [-Inherent]. Only 9-11 are [+Recurring]; the rest are [-Recurring]. These latter states 'exist' or 'occur', and do not 'come'. These states are treated as semi-permanent possessions rather than as 'transient' feelings. (5) jāgarta 'alertness' and (6) sukham happiness, (7)dukkham 'sorrow', (8) wicāram 'sadness' are the only ones that occur in three possible propositions.

E.g.: P:S *wādiki dayagā undi 'to him, there is kindness'

P:S *wadu dayaga unnadu 'he is kind'

P ← S wādiki daya kaligindi 'he became kind'

P+S wādiki daya undi 'he has kindness'

P:S *wādiki jāgartagā undi 'he is alert'

P:S · wādu jāgartagā unnādu

P ← S wāḍiki jāgarta kaligindi 'he became alen'

Π

Ш

P+S wādiki jāgarta undi 'he has alertness'

G.

[+Inherent, +Animate]

Pred

			_		
	, I	II	(a) (b)	(a) (b)	(a) (b)
	(:)	(←)	P:S P:S	P ←S P ←	S P+S P+S
(i) podugu	un	aw	+	+	tall
poțți	un	aw	+	+	short
ettu	un	aw	+	+	high [.]
lāwu	un	aw	+	+	stout
sannam	un	aw	+	+	thin
pedda	un	aw	+	+	big
cinna	un	aw	+	+	small

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(ii) gaṭṭi	un	paḍu/aw	+	+	hard
metta	un	paḍu/aw	+	+	soft
nunna	un	paḍu/aw	+	+	smooth
garuku	un	/aw	+	+	rough
(iii) tella		paḍu/aw		+	white,fair
nalla	un	paḍu/aw	+	+	black,dark
erra	un	paḍu/aw	+	+	red
pacca	un	baḍu/aw	+	+	green/
					yellow
(in) and am					baautu
(iv) andam			+	-	beauty
asahya	mun	-	+	-	repulsion
(v)uppa-	un	padu/aw	+	+	salt
kāram	un	/aw	+	+	hot
cappa	un	padu/aw	+	+	bland
tiyya	un	padu/aw	+	+	sweet
pulla		padu/aw	+		
	иn	pauman	1	+	sour
cēdu		/aw	+	+	bitter
-	un	= .▼		•	
cēdu	un	/aw	+	+	bitter
cēdu wagaru	un un un	/aw /aw aw	++	+	bitter astringent
cēdu wagaru kamma	un un un	/aw /aw aw	+ + +	+ + + +	bitter astringent tasty

Most, if not all, of these attributes are inherent features of objects or animate beings. (i) to (iv) are [+Animate], (v) and (vi) are [-Animate]. In propositions containing these predicates, the 'possessor' of the state is not the 'experiencer'. The experiencer is always [+Animate]. Examine, for instance:

P:S wādiki ākaligā undi 'he is hungry'

P:S wādu ākaligā unnādu

P:S wādu nallagā unnādu 'he is dark (black)' but not

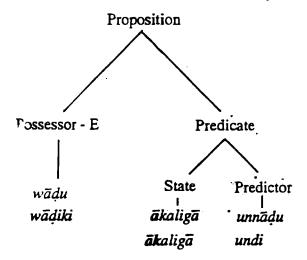
P:S *wādiki nallagā undi '*to him, is blackness'

In the first pair $w\bar{a}du$ 'he' is the possessor of the state of hunger, he is also the experiencer of 'hunger'. In the second pair the experiencer is the one making the utterance about his visual experience. The possessor of the state is not its experiencer. For this reason we can say $n\bar{a}ku$ $w\bar{a}du$ $nallag\bar{a}$ $unn\bar{a}du$ 'to me, he is (seems) dark' but not to him, there is darkness'. Where the experiencer is also the possessor of the attribute we get a two-place predication.

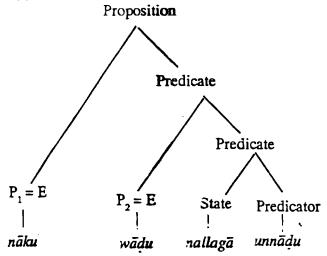
wādiki mogam nallagā undi 'to him, the face is dark'
(his face is dark)

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We can represent the deep structure contrasts by the following diagram.

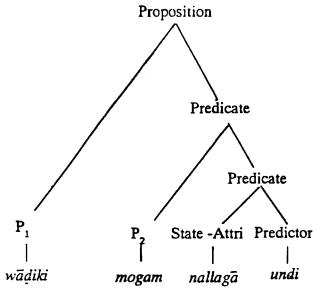


(2) $(n\bar{a}ku)$ $w\bar{a}du$ $nallag\bar{a}$ $unn\bar{a}du$ 'he is dark' (speaker =I) P_2 who is not E in the embedded proposition does not occur in the dative.



(3) wādiki mogam nallagā undi 'to him, the face is dark'

This proposition is possible because P_2 is a body part or possession of P_1 . We may generalize that where we have P_1 and P_2 , P_1 should be Experiencer or Possessor of the object denoted by P_2 . Where P_1 = Experiencer or True Possessor, certain syntactic constructions are blocked.



Another characteristic of attributive (stative) predicates is that they occur in sentences without a copula under P+S type (?).

wādu podugu 'he is tall' (habitual) (that -man +taliness) i konda ettu 'this hill is high (habitual) (this hill +height) ā abbāyi nalupu 'that -boy is dark' (that boy+darkness)

The statives are derived abstract nouns. Such constructions are not possible with states which may be characterized as experiences of possessions. This class of predicates has $P \leftarrow S$ type

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(P becoms S) as in English. This is a feature not shared by the other statives.

wādu sannabadutunnādu 'he is becoming lean' pandlu tiyyabaddāy 'the fruits turned sweet'

In other words these are 'inceptive verbs' derived from attributive adjectives. The following sentence types deserve explanation:

P+S i panduku pulupu undi 'this fruit has sourness'
i puwwuku wasana undi 'this flower has fragrance'

A NOTE ON THE TENSE OF 'EXISTENTIAL' AND 'TRANSITORY' ASPECTS OF STATIVES

The 'existential aspect' of a stative is necessarily durational, i.e.

wādu kopamgā unnādu 'he is angry, he was angry, he has been angry'

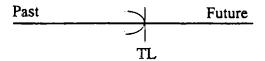
If no definite time adverbial is used, the state of anger attributed to the person is said to obtain at the time of the utterance. There is no indication when the state 'began' and how long the person 'has had' the state. In other words an unmarked existential aspect has only one terminal (the time of utterance) of the time span indicated. A time adverbial of the type 'from morning till evening', 'for three hours' can be added in which the two terminals of duration may be indicated. The time focussed by the verb is a strech rather than a point when an existential predicator is used (i.e., undi, unnādu, etc.). But in the case of 'transitory' predicators like 'he became angry' ('to him, anger came') the time focussed by the predicator is a 'point' and not a 'span'. Transitory predictors do not take durational adverb complements

*wādiki ninnaţi nunci kopam'*he became angry since waccindi yesterday'

This situation seems to hold good for many other languages. The following diagrams represent the contrast between 'durational' and 'transitory' aspects of statives. Leech calls them 'perfective' and 'inceptive' (Leech 1970:57-8).

Durational (TL= time of locution)

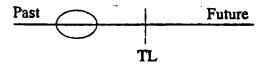
(1) Unmarked with time-terminals unrepresented as in 'He knows' (= Present)



(2) One terminal stated, anchored to TL. (Present Perfect)
'He has been angry for three hours'



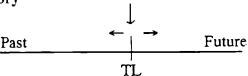
(3) Two terminals stated of which one terminal is not anchored to TL. (Past or Past Perfect) 'He was angry yesterday'.



These three varieties are expressed by the same form of copula in Telugu.



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any point in past or future or at TL.

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Examples:

wāḍiki kōpamgā undi 'he is/was/has been angry'
wāḍu kōp imgā unnāḍu
wāḍiki kōpam wastundi 'he will become angry'
wāḍiki kōpam waccindi 'he became angry'
wāḍiki kōpam wastunnadi 'he is/was/has been getting

angry'

* Note

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It gives me great pleasure to dedicate this to my old colleague and friend Prof. H.S. Ananathanarayana.

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A NOTE ON THE NONSEPARABILITY OF TENSE AND ASPECT

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Abstract: It has been rather a vexing problem to separate tense and aspect in natural languages, even though there is a broad agreement among linguists on what constitutes tense and what constitutes aspect. This difficulty mainly arises from the fact "in many languages the formal encoding of tense is not seperate from the formal encoding of aspect". However, Comrie makes the distinction between tense and aspect on conceptual basis. This note tries to explore such a possibility of distinguishing in Telugu and outlines the problems that arised.

Comrie, succinctly expresses the distinction by saying that aspect is situational internal and tense is situation external. He elaborates it by saying that 'aspect is concerned with the internal temporal constituency of a situation" whereas "tense is grammaticalized expression of localization in time".

The present note is strictly a characterological exploration which might at least facilitate future typological or areal investigations of Tense and aspect in Indian languages.

Before going into the topic proper, I would like to outline the tense system of Telugu as I understand.

It is customary to identify three tenses, namely, present, past and future in Telugu. Taking the verb "to come" as an instance the following forms can be taken as illustration.

Future	Present	Past
was-tā-nu	wast-unn a -nu	wacc- w -nu
I come	I am coming	I came

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The future form also expresses habitual aspect, which depends upon linguistic and non-linguistic contexts. The past form is indefinite to proximity or remoteness. The past and future forms can be used with the present implication (? relevance) like.

- (1) $ip_i = \overline{e} \sqrt{astanu}$ "I will come right away"
- (2) ippudē waccænu "I have come right now"
 Though both the forms have present implications, the pass
 denotes a completed action and the future form denotes a yetto-start action.

The present verb form is readily a progressive form with no time marking. It can be used in future and past also at the following examples suggest.

- (3) reppodduna mi intiki kāfiki wastunnāni
 "Tomorrow morning, I will be coming to you
 house for (a cup of) coffee'
- (4) ninna m i tingu ayip o gan e intiki we lutunnanu-'I was going home immediately after the meeting'
- (5) ippudē bazāru nunci wastunnānu
 'Right now, I am coming from the market'

As the above example suggest that the tense of 'present' form is not independent but depends upon some other time expression in the sentences. It is true that a sentence with no explicit clue for time, often gets present interpretation. It is however quite natural to give a present interpretation, for a form that expresses an on going action with no time reference. Presentense is an unmarked tense and there are many languages which have no morphological markings for it. By the above examples we can say that Telugu marks past and nonpast in verbs and present is not linguistically coded. The present interpretation of the verb forms depend upon either the time

reference elsewhere or the absence of it.

Equational sentence in Telugu have no explicit verbs. They express the states and qualities of Topic noun phrases.

- (7) atanu m u rkhudu
 'He is an idiot

The above sentence are non action sentences that express states, qualities or professions. In the absence of any other clue, they express the qualities of the topic noun phrases which must be true at the time of the speech act. They are actually tenseless sentences and they get present interpretation because of the unmarked quality of present tense. They can be made sensitive to past reference only by lexical expression of time. They cannot be made future sentences even by lexical choice. The equivalent of certain semantic ranges of the English verb to be in Telugu is 'undu' which usually expresses the location of an object in time-space continuos. In some dialects the tense inflected forms are the following.

Past & Present Future $unn-\overline{a}-nu$ $un-\underline{t}-\overline{a}$ nu I am & was I will be

(9) Sinhā gāru ninna ḍhilli lō unnāru iwwā la haidarabādulō unnāru repu maisūrlō untāru

"Dr. Sinha was in Delhi yesterday, (he) is in Hyderabad today and (he) will be in Mysore tomorrow"

For this dialect of Telugu the Tense distinction is future and non future. What is common to both action verbs and stative verbs, is that past verbs express factual information and the future verbs express expected information. In these finite 76 C.RAMARAO

verbs, it become difficult to separate factual from the past and expectational from the future. It is possible to take factual and expectational as primary and past, present and future are derived from the linguistic and non linguistic contexts.

Coming to nonfinite verbs, there are two participles which are generally called past participle and present participle as in the following typical sentences.

- (10) atanu annam tini nidra p \overline{o} y \overline{a} du 'He ate (his) meal (and) slept
- (11) \overline{a} me nawwut \overline{u} m \overline{a} t \overline{a} dutundi 'She smiles while she talks' 'She talks with a smile'

These nonfinite verbs do not specifically denote any time. The typical functions of these non finite verbs are that the past participle serialises the actions chronologically and the present participle, expresses simultaneity. There are many other functions which are treated elsewhere. Many of the functions are derived from the semantic content of the predicates and probably from the nature of the external world. When these nonfinite verbs are used in immediate proximity they function as attributes to the main verbs expressing the state, habit or quality of the agent.

- (12) atanu kā lejiki annam tini welţādu 'He goes to college by eating a meal'
- (13) atanu caduwutū nidra p o t a du
 'He sleeps while reading (a book)'

In the above sentences it is not so much of sequentiality or simultaneity that are expressed but they express state or a habit. The priority of the action expressed in the nonfinite verbs looks like an iconic feature related to their occurrence in a sentence. The tense interpretation is a derived factor but not inherent in the participles. The negative participle clearly express a state rather than an action in these sentences.

(14) atanu annam tinakundā kā lejiki weļļ ædu 'He went to college without eating his meal'

There is only one negative one negative non finite participle corresponding to both of the positive non finite participles. The descrepency in the presuppositions between corresponding positive and negative forms is expected.

Telugu also has another set of participles used in relativizations. The past and present relative participles correspond to the past and present finite verbs illustrated earlier. The future like relative participle is a more generalized one and does not point to any time. Corresponding to all relative participles, correspond to the past and present finite verbs illustrated earlier. The future like relative participle is a more generalized one and does not point to any time. Corresponding to all relative participles there is only one negative participlewhich usually denotes a quality or state in attributive position.

(15) klā suku rā niwā du kā lē jiki enduku waccinattu?

'Why has he come to college when he does not come to class'

(The person who doesn't come to class)

The above discussion points out to the fact that aspects and tenses are quite intertwined in such a way that they are not separable. Whether the forms denote primarily tense or aspect depends upon the linguistic and non linguistic contexts as well as the perspective of an observer. I do not mean to say that it is the general case. I only intend to say that this is the case in some languages.

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CONSEQUENCES OF SYNTACTIC CHANGES IN CONTACT SITUATION

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When two languages come in contact, borrowing of phonological, morphological and syntactic features takes place.Interaction due to prolonged contact betwen two languages belonging to two genetic groups may result in a language with a totally different grammatical structure. Dakkhini¹ spoken in Andhra Pradesh and the other southern parts of India provides one such example. Prior to the formation of Andhra Pradesh, Hyderabad and the other area of Telangana were under Muslim rule. Contact between Telugu speakers and Urdu speakers started around 14th century when Muslim invaded south. Such a bilingual situation that prevailed for more than five centuries resulted in the present variety of Dakkhini which in many ways is identical to Telugu in its syntactic traits and is radically different from Hindi-Urdu as well as from earlier variety of Dakkhini that emerged in the fourteenth century and existed as a written laguage till the seventeenth century².

As a language undergoes process of syntactic change due to contact:

(I) It expands its structure and function leading to the emergence of new device/devices to expres certain construction types that are not found in the source language. Development of bolke the past participial form of verb bol'say' and

ki as complementizer in Dakkhini along with their multiple function³ provides examples of such a device not found in the source language. The following examples are illustrative.

1. D: Uno a: ta: bolke bola: pan nai: a:y a: he will come COMP said but NEG come

' He said that he will come but did not come.'

2. D: uno kab a:ta: ki mere ku nai: ma:lum
he when will come COMP I DAT NEG know
' I do not know when he will come'

The development of the new complementizer bol ke and extention of fuction of ki can be attributed to Telugu, the donor language.

- 3.T: wa:du osta:d ani ceppy a:du ka:ni ra:le:du he will come COMP said but did not come 4.T: wa:du yeppudu osta:do: na:ku teliyadu he when will COMP I DAT do not know
- (II) When two languages come in contact as a result of convergence either one of the two languages incorporates syntactic rules of the other language almost in toto leading to Extreme Convergence⁴ (i.e. convergence of two systems). A one to one correspondence between the form and function in case of two complementizers bol ke and ki the syntactic changes involved in the shift of a presentential complementizer found in Hindi-Urdu (sentences (5) & (6) below to a post sentential complementizer in Dakkhini (sentences (1) and (2) above) on the Dravidian pattern. The multiple functions⁵ performed by these complementizers are evidence for convergence of two systems where either one incorporates the rules of the other almost in toto. Following examples are illustrative:

- (5) H-U: us ne kaha: tha ki vah a:yega: par nahi:a:ya: he ERG said was COMP he will come but NEG come
- (6) H-U: mujhe nahi:pata: ki vah kab a: yega: ?
 I DAT NEG known COMP he when will come

(III) An existing construction in the recipient language may be reanalysed to incorporate new construction types of the donor language into its system. By reanalysis6 we mean a mechanism of syntactic change which may or may not lose its original function and is reanalysed to perform various new functions. Complement constructions with $b\overline{o}l$ ke and ki and relative participle with so in Dakkhini are examples of such a reanalysis. The complementizer ki has been reanalyzed to perform the various functions in addition to functioning as a generalized postposed complementizer (ki functions as a disjunctive marker (both clausal and phrasal), as dubitative marker, as an indefinite liner in relative constructions, as a staller etc.) bolke the post participial form of the verb bol 'say' has been been grammaticalized. bolke performs various functions such as: as a reason marker, purposive marker, purposive marker, quotative, to express thought and desire or intention, is used for naming and labelling, as quotative etc. (For detailed discussion, see Arora 1987) losing its lexical meaning. Further, the adjectivalizer so, a correlative marker in Hindu-Urdu is re-assigned an entirely a new set of functions such as adjectivalizer, (pronomial as well as predicative), complementizer, Linker in negative verbal participles and in reason clauses⁷. Such a reassignment of functions to so illustrates that there need not be any commonness of a particular item between the source and borrowing languages in reanalysis in contrast to the reassignment of functions in

Dakkhini to the Hindi-Urdu complementizer ki where the basic function ki forms the focus for the extension of domains of the complementizer in Dakkhini.

- (IV) Syntactic change may lead to elimination of an existing category on the pattern of the language which it comes in contact with. The loss of *ne* the ergative marker and loss of the verb 'to be' as a tense carrier in the final position⁸ in most of the constructions are instances which support this. The following examples are illustrative:
- (7) D: anjayya: ca:y pi: liya:
 Anjayya tea drank
 'Anjayya drank tea.'
- (8) H-U: anjayya: ne ca:y pi: li:
 Anjayya ERG tea drank
 'Anjayya drank tea.'

Telugu does not have any ergative marker.

(9) T: anjaya:ø ca:y ta:gina:du Anjayya tea drank 'Anjayya drank tea'.

Loss of verb 'to be' can be illustrated by the following example. Notice that Telugu too does not have verb 'be' in the final position.

- (10) D: uno mere ghar ku roz a:ta ø
 he my home DAT every day come IMPF
 'He comes to my nouse every day.'
- (11) H-U: wah roz mere ghar a:ta: hai

(12) T: wa:du rozu na: inți ki osta:du he everyday my home DAT come IMPF

such a change involving the loss of the verb 'to be' in the final position supports the claim made by Li and Thompson (1977) that "Copula is extremely susceptible to change, it can be easily lost, borrowed or redeveloped (p.16. Intr.)". The loss of gender-number agreement especially in relative participles and the loss of genitive in participial construction in Dakkhini are further examples of this principle.

The loss of gender, number and person agreement can be seen in the following example.

(13) D: ghar ku a:re sō bacca:
home DAT is
comingADJR boy
bacci:
girl
baccē
boys
bacciyã:
girls

'The girl/girls/boy/boys who are coming home.'
As opposed to this Hindu-Urdu does show agreement
In participial constructions:

(14) H-U: ghar a:ta: hua larka:
home a:ti: hui: larki:
a:ta a:te hue larke

Telugu as expected does not show the agreement.

(15) T: intiki ostunna pilla
Lome DAT will come girl
pilaga:du

pillalu girls pilawaḍu boys

(V) On the other hand, an existing category may be expressed by a new morpheme on the pattern of the donor language. Onceagain the complement construction provides one such example. The complement construction with post sentential complementizer kar ke, the past participial form of the verb kar'do' can be expressed by the complementizer bolke which has potential to replace kar ke in almost all the functions. Due to existance of kar ke as a post sentential complementizer in earlier Dakkhini as well as in the present day Dakkhini we hypothesize that kar ke was already being used as a post sentential complementizer in Dakkhini but innovation of bolke on the pattern of ani (the post sentential complementizer in Telugu) has replaced karke. karke might have acted as a catalyst for the borrowing of bolke complementizer with various functions from Telugu into Dakkhini, which in turn might have introduced its different functions to kar ke. On the basis of the this type of change we can conclude that a particular syntactic change may have effect of triggering the syntactic change in other element resulting in a complement construction with two complementizers competing with each other in various functions 10. Complementizer bolke and karke show almost indential behavior in their functions.

(16) D: un a:ta: karke/bolke bola: pan nai a:ya: he will come COMP COMP said but NEG came 'He said that he will come but did not come.'

Thus, a new complementizer with verb 'say' (ie. bolke) emerged due to syntactic reanalysis in contact situation.

(VI) Synatactic change in a contact and convergent situation may lead to total or partial loss of obligatory distinctions. An expression or an element may become less obligatory thus showing the tendency towards loss or optional occurrence of that expression or element on the pattern of the donor language. One can think of such a situation in Dakkhini where the Hindu-Urdu genitive is replaced by Ø in participles or is replaced by other categories such as the dative ku as in sentence (18) and the complementizer bolke in sentence (20). The following are illustrative.

- (17)H-U: ra:m ki: di: hui kita:b

 Ram DAT give PERF PPLE book
 'The book that Ram gave.'
- (18) D: ra:m \(\phi \) diye so kita:b ram give PERF ADJR book
- (19) H-U: mujhe ghar ja:ne ki: jaldi: hai
 I DAT home go INF GEN hurry is
 'I am in a hurry to go home.'
- (20) D: mere ku ghar jāne ku jaldi: hōri I DAT home go INF DAT hurry hap -pening

ja:na: bolke go INF COMP

Notice that the genitive in sentence (17) above functioning as a status reducer (as it reduces the status of a clause to that of a phrase) in Hindu-Urdu is deleted in Dakkhini (sentence (18) above). The deletion of the genitive as a status reducer can be explained by hypothesizing that it is due to convergence with Telugu as illustrated in sentence (21) below:

(21) T: ra:mudu iccina pustakam Ramudu give PERF ADJR book

The replacement of the genitive by the dative in Dakkhini (sentence (20) above) is due to a syntactic process which we lable as 'dativization'¹¹ which again is due to convergnce with Telugu.

(22) T: na:kuinṭiki po:vaḍa:niki tondarga: undi I DAT home DAT go INF DAT hurry is

The reason for the retention of the gentive in Dakkhini in addition of the dative ku in some sentences as in sentence (23) below and the complementizer bolke could be that a syntactic change is still in progress and at present the bolke type construction, the dative and the genitive are three competing constructions. The following sentence with all the three complementizers is illustrative:

Mãi vã: košiš kara: (23) D: .ja:na kā bhot go INF GEN a lot there tried ja:na: bolke **COMP** go INF ja:ne kш go INF DAT

'I tried a lot to go there.'

The distinction between the dative and the genitive is minimized in many constructions. Thus the loss of the genitive is still in a transistional stage whereas in case of the ergative and non ergative constructions the distinction is lost completely due to loss of the ergative marker *ne*. The loss in

total in the sense that loss of *ne* has resulted in the change where the verb agrees with the subject in Dakkhini unlike Hindu-Urdu where the agreement is between the object and the verb. The following examples are illustrative.

(VII) In additon to the elimination or loss of obligatory distinctions, convergence may lead to syntactic change resulting in innovation of certain distinctions which become obligatory. Syntactic as well as formal distinction between verbal and relative particilpes in Dakkhini can be regarded as an evidence, such a distinction is an innovation on the Dravidian pattern as Indo-Aryan languages do not maintain such a distinction. Verbal participles in Dravidain languages are used to link a subordniate clause to the main clause¹². They never be used as adjectives unless an adjectivalizer is attached. Hindi Urdu has three kinds of participles: imperfect, perfect and conjunctive participles. The imperfect and perfect participles can be used as verbal as well as relative participles and they are indentical in form. The following examples are illustrative:

(26) H-U: vah ka:m karte hui T.V. dekh rahi: thi: she work do IMPF PPLE T.V.seePROG was 'she was watching T.V while working.'

- (27) H-U: ka:m karti:hui: larki: work do IMPF PPLE: girl 'The girl who is working.'
- (28) D: use gaye hue bahutdin ho gaye hai him go PERF PPLE manydays have happened lit is many days since he has gone.'
- (29) D: gaya: hua: larka: go PERF PPLE boy 'The boy who has gone.'

Thus we see that imperfect and perfect participles are homophonous in its verbal and adjectival usage. The same is not the case with Dhakkhini.

- (30) D: bacca: khate ue kuch tobi: socra:
 boy eat IMP PPLE something EMPH thinking
 'The boy is thinking something while eating.'
- (31) D: kha:na: kha:te so bacca: food eat IMP ADJR boy
 'The boy who is eating.'
- (32) T: ma: pillaga: du annam tințu: e:mo:
 a:loçincukonțu nna:du
 my boy food eat IMPF
 PPLE something was thinking

(33) T: annam tinṭunna pillaga:ḍu food eat IMPF PPLE boy

Hence we notice that syntatic change due to convergence can result in loss of certain distinction as well as innovation of certain new ones:

(VII) A construction may be partially retained and a hybrid construction may be formed due to contact induced change where part of the construction is retained from the recipient language either in function or in form. The hybrid relatives in Dakkhini provide such an example. Hybrid relatives exhibit parital similarity with Telugu as well as Hindi-Urdu in the form and function. In such a construction, in Dakkhini, though a relative pronoun is used (the one found in HIndi-Urdu) in place of the interrogative pronoun on Dravidian pattern, the post sentential relative linker ki too is retained which shows the Telugu influence.

(34) D: Jo admi: Ku amma: paise dyo boli ki vo admi: ku de REL PRO man DAT mother money give said COMP that mna DAT give

Give money to the person when the mother asked you to dyo.'

give to '

There is a parallel syntactic construction in Konkani, which shows identical pattern with regard to the usage of the relative prooun and linker as in Dakkhini. Consider the following example from Nadkarni(1970):

(35) jo mha:nta:ro pe: par va: ccet a:ssa(ki) to which old man paper reading is linker that da:ktarn a:sse

doctor is

'The old man who is reading a paper is a doctor.'

Thus, in the process of convergence a language shows innovation replacing an earlier form by new construction types, or retention, where the recipient language retains the earlier constructions along with the borrowed ones with similar function with the result that the two constructions compete with each other with similar functional distribution. In addition, the language also shows internal development and has novel innovations which can neither be attributed to the donor language nor to the recipient language but are result of contact independent developments. These innovations though less in number when compared to borrowed constructions and retentions are worth discussing.¹³

A close examination of complementation, dativization. conjunctive participles and noun modification ¹⁴ reveals an extensive grammatical convergence which provides counter evidence to the claim that"the grammatical systems of two languages are impenetrable to each other (Meilett 1938)"¹⁵ and also to the claim that "no where do we find any but superficial interinfluencings (Sapir 1927)". ¹⁶ However, such a convergence in grammar provides an example to what has been stated by Kuiper (1974) as "a language can adopt foreign syntactical construction while retaining its inherited morphological elements". A study of Dakkhini syntax provides further support for claims such as "language change can result in such for reaching changes that the effected language assumes a different structural type". ¹⁷

Notes

1. Considering different views (Grierson (1918), Shirani (1928), Bloch (1930), Saxena (1952), Verma and Verma (1959), Zore (1960), Chaterjee (1963), Sadique (1964), Khan (1954, 1969), Haque (1964) and meterial available on Dakkhini it seems convincing to consider Dakkhini as a form of language which originated around Delhi and developed with the conquest to Muslims from Delhi to Punjab and was influenced by other dialects such as Haryanavi, Khari boli and Braj spoken in Delhi and the surrounding areas. Later it travelled through Gujarat, Maharashtra, Andhra and Karnataka with the conquest of Khilji.

The language was further taken to the south during Tuglaq's period. Later, when the capital was shifted back to Delhi, a large number of people stayed back. These people (both Hindus and Muslims) were from different places and spoke mixed language which had in it the elements of Punjabi, Haryanavi, Rajasthani, Khariboli and Braj.

- 2. Written texts that are available (starting from 14th century onwards) include Banda Nawaz (13881423), Ashraf() Abdulla (1613), Wajahi (1636), Mohummad Sharif(1700), Mahmood Shah Husaini(1819), Mir Asgar Ali Kazi (1869), Abidshah Al Hasan ul Husain (1670), Mahmood Shah Husaini(1819), Abdulla(1623), Gausi Dakkhini (n.d.), Vali (). These works are found in different sources (Sharma1954, 1962,1964), Panchal (1978), Telang(1975).
- 3. For multiple functions performed by ki see Arora (1987), Subbarao and Arora (1989). For the functions performed by bolke see Arora (1987).
- 4. See Subbarao and Arora (1989).
- See Arora (1987), Subbarao and Arora (1989).
- 6. See Arora (1987), Arora and Subbarao (1989)

7. For detailed discussion, see Arora (1987), Arora and Subbarao (1988).

- 8. 'be' is not lost totally, its occurrence can be seen in many other positions.
- 9. For a detailed discussion, see Arora and Subbarao (1990).
- 10. For detailed discussion, see Arora(1987).
- 11. Dativization is considered as Dravidian phenamenon by Subbarao (1983).
- 12,13. For detailed discussion, see Arora(1987).
- 14. For detailed discussion, see Arora (1989).
- 15. Quoted in Weinreich (1963).
- 16. Also quoted in Weinreich (1963).
- 17. Belic' in the 6th International Congressof Linguistics as mentioned in Weinreich (1963).

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LANGUAGE IN USE AND CONVERGENCE: SOME PRELIMINARY THOUGHTS

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That there has been linguistic convergence due to prolonged contact between speakers from different language families in India, is now an established fact (Emeneau: 1956, 1969; Chatterji: 1953, Southworth: 1974, Kuiper: 1967, Caldwell: 1856). The data used by scholars for such assertions were primarily confined to written records for obvious reasons. Consequently, the observations may be said to be relevant for what got codified as normative language. It would not be unreasonable to believe that the speakers did have other variants available to them for interaction at different sociolinguistic domains which did not necessarily match the normative use. Unfortunately, there is little data available on the actual language use in face to face interactions necessitating innovations and adaptations in linguistic strategies for pragmatic functions. There must have been bilingualism across language family boundaries at the grassroots level to such an extent that the mutual influences were not merely confined to the borrowing of formal properties of language (lexical as well as grammatical) but also penetrated the various discourse strategies adopted by the speakers for day to day informal conversations. In the absence of historical evidence for language use in prehistoric India, the only way to reconstruct such information can be through exploring the 'current patterns of language use' (Shapiro and Schiffman: 1981, p. 144).

Even synchronic formal grammars do not generally encode information about how available normative structures and lexicon in a given language can be, and are, exploited by the speakers for non-literal purposes in order to achieve pragmatic ends. For instance, as far as we know, no grammar of Indian languages tells us how an FTA (face threatening act – see Brown and Levinson: 1978) can be committeed by using a higher level honorific pronoun where a lower level honorific or non-honorific pronoun is required (i.e. saying *qap* or *aapni* where *tum* or *tumi* "You" is expected in Hindi and Bangla respectively). Or, how a potential FTA can be redressed by the use of past tense where the reference is to the future (Subbarao, Agnihotri, Mukherjee: 1991).

Some current studies dealing with the use of vector verbs to indicate attitudes (Abbi: 1991), question words for non-question functions (Lakshmi Bai: 1991), and causatives, passives and other syntatic strategies for politeness (Subbarao *et al*: 1991) indicate the pragmatic aspects of linguistic convergence in India.

This paper deals with some discourse strategies commonly shared by speakers of Dravidian languages like Tamil (Ta), Telugu (Te) and Kannada (K) on the one hand, and Indo-Aryan languages like Hindi (H), Bangla (B) and Marathi (M), on the other. The following similarities, we believe, could not be the result of an historical accident. We contend that as the speakers of Indo-Aryan and Dravidian language families participated in and shared more and more

activities requiring communication, they felt the necessity for the expansion and modification of their linguistic repertoire. The similarities increased as a result of convergence as the communication needs grew in more and more social contexts.

- 1. Establishing the identity of the topic: A strategy commonly used for identifying the topic about which the speaker would proceed to make a comment is to introduce the topic with a tag question in the first clause and follow it up with the intended comment. For instance,
 - (H) khanna hai na, bilkul bekaar aadmi hai
 Khanna is no absolutely useless man is
 'You know Khanna! He is an absolutely useless man.'
 - 2) (B) oije holde baaRiTaa chilo naa, še baaRiTaa that yellow house was no that house bhumikOmpe Ekabaare bhene gEche earthquake in totally break gone 'You remember that yellow house! It is completely destroyed in the earthquake.'
- 3) (Te) aayana unnaDu kadaa, okka pani kuuDaa
 he is no one work too
 sariga ceyyaDu
 correctly will not do
 'He! He will not do anything correctly.'

4) (Ta)inda poDavai irukku illa, idu daan avaL vaangi
this sari is not this only she having
kuDuttaaL
bought gave
'This sari you see! This is what she has bought
for me.'

- 5) (K) nii idi yella, niin obba hucca you are no you one mad 'You? You are a mad person.'
- 6) (M) haa raam aahe na, agdii bekaar this Ram is no absolutely useless mulgaa aahe boy is 'You know Ram? He is absolutely useless.'

In the Dravidian languages besides the tag question indicator namely Te. kadaa, Ta. illa etc., the suffix —ee can also be used with the verb 'be' in the topic introducing clause as will be clear from the following examples from these two languages.

- 7) (Te) nuvvu unnaav ee, niiku eppuDuu you are suffix to you always tiNDi dhyaasee food thinking 'You? You are always thinking of food.'
- 8) (Ta) naan irukeen ee, inda visayattula talai iDa

I am suffix this matters in head put maaTeen will not

'As for me, I never get involved in such matters.'

- 2. Enumeration: While enumerating a set of items or entities especially when the speaker is trying to recall them, he tends to use a lexical item meaning 'after that' or 'later' interspersed with the items being enumerated.
 - 9) (Ta) naan, mohan, apparam aruN ellarum poonoom

 I Mohan later Arun all of us went
 'Me, Mohan and Arun and all of us had gone.'
- 10) (Te) benDekaayaluu, ullipaayaluu, tarvaataa allam
 okra onions later ginger
 kaavaali
 needed
 'We need okras, onions and ginger.'
- 11) (K) kannaDa pustakagaLu ive, tamil pustakagaLu
 Kannada books are Tamil books
 aamel a telugu pustakagaLu
 afterwards Telugu books
 'There are Kannada books, Tamil books, and
 Telugu books.'
- 12) (B) aaj Onek raannaa korechi. Daal, today a lot cooking I did lentils cOccoRi, bhaate, taarpOr, maach friend vegetable mashed food after that fish 'I have cooked a lot today. There is lentils, fried vegetables, mashed food and fish.'
- 13) (M) aruN, hariiś, maheś tyaanantar kon bara Arun, Harish, Mahesh after that who well 'Arun, Harish, Mahesh, after that, well, who ...?'

The frequent use of such a lexical item for enumeration in the conversational language may have been responsible for its being acquired earlier than other processes of conjoining by children. Nirmala (1981), for instance, points out that early conjoined structures produced by Telugu children is with *tarvaata* 'after that' or 'later' and not the process of vowel lengthening, also a major conjoining strategy.

- 3. Discourse Openers: One of the commonly used discourse openers in languages of both Indo-Aryan and Dravidian stock is a lexical item meaning 'more'. The strategy is more appropriate when the intimacy or informality between the interlocutors is presupposed. A few illustrations are given below:
 - 14) (H) aur bataaiye kyaa haal caal hã i more tell what matter is 'And, how are things?'
 - 15) (B) aar ki khObor
 more what news
 'And, what's the news?'
- 16) (M) aaNkhiin bolaa kaay haalcaal aahe
 more say what matter is
 'And what else, how are things?'
- 17) (Te) inka ceppu andaru baagaa unnaaraa more say all good are 'And, is everyone alright?'

- 18) (Ta) innum enn appaa enna visayam
 more what address what matter
 of endearment
 'And, how are things?'
- 19) (K) innu eenide heeLu more what is there say 'And, say what else?'

This strategy is also used to keep the conversation going.

- 4. Discourse Closure: In the Indo-Aryan and Dravidian languages that we have examined, a word meaning 'good' is commonly employed to close the discourse. For example, all the following utterances may end a telephonic conversation.
- 20) (H) accha jii rakh dūū good polite form put shall I of address
- 21) (M) bara mi aata Theeuu, kaa?
 good I now put it what
 'Okay shall I put it down?'
- 22) (Ta) nalla-tunka good politeness form 'Okay Sir.'
- 23) (Te) mancidi uNTaanu good I remain 'Okay.'

24) (K) oLLeyadu iDalee
good it shall I put it
'Okay, shall I put it down?'

Another aspect of a culturally conditioned discourse closure occurs when taking leave in face to face communication. In some Indo-Aryan and Dravidian languages it is customary for the person taking leave to say 'I will go and come' or 'I am coming/I come' instead of 'I am going'. The person from whom leave is taken is traditionally expected to respond with statements like 'Having gone, come' or just 'come'.

person taking leave says person from whom leave is taken says 25) (B) aaši giye/ aaši giye/ešo ešo I come having having you come gone gone 26) (M) mi aata eto yaa now will come you come OΓ mi zaaun yeto having I will come gone 27) (Dakkhini) mãi jaake aataa hüü jaake aao having come aux having gone come gone 28) (K) hoogiddu hoogiddu bartini banni having gone I will come having gone come OF bartini I will come

29) (Te) pooyi vastaa pooyi raa having gone I will come having gone come

or

vastaa

I will come

30) (Ta) pooyiTTu vareen poyiTTu vaa / vaa having gone I come having gone come or vareen I come

Note that while Bangla and Marathi share this feature with the Dravidian languages, standard Hindi does not. Dakkhini like in many other features agrees with Dravidian languages in this respect.

- 5. Attention Drawers: In face to face interaction a common way of drawing someone's attention in both Indo-Aryan and Dravidian languages is by the use of the demonstrative pronoun of proximity followed by a participle or suffix. As will be clear from the examples given below Tamil and Telugu use the suffix —oo and —goo respectively. Bangla uses the complementizer je corresponding to the Dravidian suffixal elements.
- 31) (Ta) idoo maa inda veNDakkaay velai enna hay honorific this okra price what term (f)

'Look here lady! What is the price of Okra?'

32) (Te) idigoo cuuDaNDi fiziks DiparTmenT this-suffix please Physics Department see

ekkaDa

where

'Please look here! Where is the Physics Department?'

33) (B) ei je, aamaaye Ekebaare dekhtei paacho
this comp me at all to see can
naa je
not comp
'Here, you are ignoring me totally.'

While standard Kannada does not seem to have this feature, Kannada as spoken in Raichur, Gulbarga etc. which are in the proximity of the Telangana region shares this feature with Telugu as illustrated in the following example:

34) (K) igoo / ikaa illi nooDu this voc. here see 'Look here.'

It is interesting that while Bangla shares this feature with the Dravidian languages, Hindi and Marathi on the other hand use other attention drawers like H. suniye 'listen' dekhiye 'see' and M. he pahaa 'here look' etc., which seem to be more commonly used across languages.

- 6. Expressing Indefiniteness: Dravidian languages like Tamil and Telugu have the dubitative suffix —oo which 'indicates some vagueness or doubt in the speaker's mind' (Asher, 1985: 4). Note, for example, the following sentences from Tamil, Telugu and Kannada.
- 35) (Ta) kozandaiki pasiyoo
 child to hunger suffix
 'Could it be that the child is hungry?'

- 36) (Ta) enna aahumoo
 what will happen suffix
 'Don't know what will happen.'
- 37) (Te) eemavutundoo
 what will happen suffix
 'Don't know what will happen!'
- 38) (K) eenu aagattoo gottillaa what will happen not known 'One does not know what will happen.'

It may be noted here that unlike Hindi, Bangla and Marathi show parallelism in this regard with Dravidian. In the place of the Dravidian suffix, both Marathi and Bangla exploit the complementizer ki and je respectively for this purpose. The following examples from these two languages will make the point clear.

- 39) (B) ki je hObe what comp. will happen
- 40) (M) kaay hoNaar aahe kii
 what happen is comp
 'Do not know what is going to happen.'

It has been pointed out by Subbarao and Arora (1989) that the complementizer ki has acquired new roles in Dakkhini under the influence of Telugu and one of these functions is the dubitative one. Note, for instance, the following sentence from Dakkhini:

41) (Dakkhini)

kyaa karte ki
what he/she will do comp.
'I do not know what she/he will do.'

- 7. Special uses of numerals: Indian languages make some very special pragmatic uses of certain numerals. The numerals thus involved are the equivalents of English one, two and four.
- a) One: In languages like Tamil and Telugu the numerals for one followed by the emphatic suffix —ee can be used to express the intensity of feelings of pleasure and pain, especially the latter, of physical conditions like being sleepy, tired, bored, vexed etc. as can be seen in the following few examples:
- 42) (Ta) enakku oree pasi
 to me one emph hunger
 'I am extremely hungry.'
- 43) (Ta) siiT kaDeccudunu avanukku ooree gusii seat got therefore he extreme happiness 'Because he got the seat he is so full of joy.'
- 44) (Te) ninnaTinunci naaku okaTee talanoppi yesterday from to me one emph. head pain 'Since yesterday I have a very bad headache.'
- 45) (Te) ii mandutoo okaTee nidra
 this medicine with one emph sleep
 'Because of this medicine I am feeling too sleepy.'

In Kannada such an expression is used more to describe a continuous process as in the following examples:

- 46) (K) ondee maLE

 one rain

 'It has been raining nonstop.'
- 47) (K) ondee aLu crying
 'Crying has been going on.'

A parallel of this can also be observed in Hindi, Bangla and Marathi. Hindi uses *ekdam*, Marathi uses *ekdam* and rarely *ekac* and Bangla uses *Ekebaare*. In Hindi *ekdam* can be used for indicating extremes of qualities or situations both good and bad while Marathi tends to use such an expression to refer to only negative attributes. Observe a few examples from both of these languages:

- 48) (H) laDkaa to ekdam kaalaa hai boy emph. absolutely dark is 'The boy is absolutely dark.'
- 49) (H) makaan to ekdam fast klaas hai house emph. absolutely first class is 'The house is just first class.'
- 50) (M) mulaacaa abhyaas ekdam vaayiT aahe boy of training absolutely bad is 'The boy's training is really of a poor quality.'

In Bangla Ekebaare is used largely to indicate 'com-

pleteness' as will be obvious from the following examples:

- 51) (B) baapre ki briSTi, bhije gechi Ekebaare oh father! what rain wet gone totally 'Goodness, what rain! I am drenched completely.'
- 52) (B) baaRi Ekebaare khaali house completely empty
 'The house is completely empty.'
- (b) Two: Indian languages across families generally use the numeral two to indicate 'littleness' in quantity or time. Observe the following examples:
 - 53) (H) do din kii zindagii hai kyaa ronaa dhonaa two day of life is why cry etc 'Life is short, why should we fuss about it!'
 - 54) (B) du paataa ińriji poRe nijeke khub poNDit
 two pages English having oneself much scholar
 read
 mone kOre
 feel does
 'Having learnt a little of English he thinks himself to be a great scholar.'
- 55) (M) don ghaas khaaun ghe two morsel eat reflexive 'Eat at least a little.'
- 56) (Ta) nannaa kodikkaracca reNDu kaDugu well boil at the time two mustard pooDaNum should be put

- 'When it is boiling well a little mustard should be added.'
- 57) (Te) eedoo reNDu Dabbulu sampaayiddaamani undi just two money making is 'I am Just thinking of making some money.'

The littleness can also be expressed by a combination of the numerals one and two, with the order being variable in the different languages.

- 58) (H) ek do din aur ruk jaao one two day more stay go 'Stay for a few more days.'
 - (B) dui Ek din aaro theke jaao two one day more stay go 'Stay for a few more days.'
- 59) (M) malaa ek don goSTii vicaaraaycyaa aahet to me one two matter ask are 'I have to find out about a few things.'
- 60) (Ta) oNNu reNDu paZuttu kuuDa peyDuttu one two having ripened too gone 'A few have even got ripened.'
- 61) (Te) anduloo okaTi reNDu pagili pooyinay that in one two broken gone 'Out of those, a few have got broken.'

It should be noted here that while Kannada does not much favour the use of the numeral two for indicating the concept of littleness, differing thereby from Tamil and Telugu, it also resorts to frequent use of the combination of one and two for the same purpose. For instance,

62) (K) onderaDu tuttu tindu hoogu one two morsel having eaten go 'Eat a little and go.'

These languages also combine the numeral one with the word for half in that order to convey the meaning 'a few' as indicated in the following sentences:

- 63) (H) ekaadh baar mil cukaa huu mai unse one half time meet completed aux I with him 'I have met him couple of times.'
- 64) (B) rOšogolla šOb šeš hoe gEche mone hOe rasgullas all finish happen went seems dekhchi Ek aadhTa beceche kina
 I will see one half classifier remains or not 'Looks like all the Rasgullas are over, I will see if a few are left or not.'
- one half having gone be come 'It is possible that a few are gone.'
- 66) (Ta) oNNu ara iruntaa kuDee one half if there is give 'Give even if you have a few.'

- (c) Four: The numeral four is also used in two different special ways in these languages. Like the numeral two it can also be employed to indicate the 'littleness' of something as in the following examples:
- 67) (H) caar din kii caandinii phir andherii raat four day of moonlight then dark night 'Happiness is transient.'
- 68) (B) aar caarTi bhaat naao more four rice take 'Take a little more rice.'
- 69) (Te) naalugu roozula bhaagyaaniki inta
 four days happiness this much
 kharcu enduku
 spending why
 'Why should we spend a lot for a happiness which
 is going to be short lived.'

A second meaning in which the numeral four is used is to indicate 'different types' or 'variety'. The following sentences from different tanguages illustrate this use:

70) (H) caar loge ke biic uThne baiThne kaa four people of center stand sit of taur tarika to aanaa caahiye manners etcemph particle come definitely should

'One should know atleast how to conduct oneself among a group of people.'

- 71) (H) caar log caar baate karenge, tum sabkii four people four talk will do you all of fikr kaise kar sakte ho worry how do can aux.

 'Different people will say different things. Why should you worry about every one?'
- 72) (Ta) naalu peerooDa seerndu irukka kattikkaNum four persons with having to stay learn should mixed

 'One should learn how to get along with different people.'
- 73) (Te) naluguritoo kalisi melisi unDaalaNTee
 four persons with harmony remain if
 koncam oorpu unDaali
 little patience should be
 'If you wish to live with people in harmony, you should have some patience.'

It is interesting to note that unlike the other languages, Bangla uses the numeral five and not four for this function. This point will be clear from an observation of the following examples from Bangla:

74) (B) lekha pORa šekheni šOmaaje pããc joner writing reading has not learnt in five people of the society šonge oTha bOša korte jaane na with stand sit doing know not '(S)he is not educated and therefore does not know how to move with people.'

75) (B) pãac jone pãac kOtha bolbe, tumi kaan five person five talk will say you ear diyo naa give not 'Different people will say different things, you don't pay any attention.'

Conclusion

With limited data from very few languages, we have merely skimmed through the surface of the issue of studying 'current patterns of language use' towards contributing to 'some sociolinguistic reconstruction' (Shapiro and Schiffman: 1981. p. 149) leading to 'linguistic stratigraphy' (Southworth 1974) of India as a sociolinguistic area. We realise that it is a very rich area for investigation involving more indepth study of more languages covering the other language families as well. Work along these lines will not only give a fuller picture of languages as they were in use in prehistoric India but may also throw some light on the nature and extent of bilingualism that might have existed and gone undocumented. Such endeavours will help us to transcend the limitations of linguistic descriptions which are abstractions divorced from language use and therefore do not provide a comprehensive picture of what a language is and does in a larger context.

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INDICES FOR STANDARD TELUGU

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Abstract: While society urges linguistic sensitivity, scholars provide evidence for linguistic variation. Linguistic geographers providedata for geographical variation and sociolinguists provide the same for social variations. The underlying factor, language in its true form, holds people together inspite of diverse manifes tations geographically or socially. This paper is aimed at disproving the stand taken by earlier scholars who stated that a modern standard Telugu pronounciation is tobe found in the speech of educated speakers of the Coastal dialect. In turn it also suggests some indices for standard Telugu. As such there is no standard Telugu and a standard pronunciation may be evolved now.

1.0 The Telugu speaking districts of Andhra Pradesh State which are on the periphery, have a bordering state where some other language of the Dravidian family or the Indo-Aryan language family is spoken. For example: the Srikakulam district in the north coastal area (Kalinga) borders Orissa state where the Oriya language of the Indo Aryan language family is spoken. Vijayanagaram and Visakhapatnam districts have common borders with Madhya Pradesh where Hindi, a language of the Indo Aryan language family is spoken. Khammam also belongs to this group. Adilabad, Nizamabad and Karimnagar share a boundry with Maharastra state,

where Marathi, a language of the Indo Aryan language family os spoken. Mahabubnagar, Kurnool and Ananthapur have common borders with Karnataka, where Kannada, a Dravidian language is spoken. Chittoor manily, and Nellore partly, have Tamilnadu state at the borders where Tamil, a Dravidian language is spoken. Nellore, although it has features common to the coastal dialect, has Sandhi phenomena like the Rayalaseema group. A situation of bilingualism is prevalent in the districts which have other languages on their borders. On the eastern side, Andhra Pradesh has the long coast of the bay of Bengal¹.

Having considered the districts which lie on the periphery, we are left with some central areas. Of these areas, Warangal and Nalgonda districts in Telangana have a good number of Urdu speakers, as does Cuddapah in Rayalseema area. All these three districts, though lying in the central parts of Andhra Pradesh, are considered to be bilingual areas. But, inspite of this factor, the Warangal dialect is considered as a regional standard for Telangana speech and Cuddapah dialect for that of Rayalseema speech.

Thus only the Prakasam, Guntur, Krishna and East & West Godavari districts are unaffected by any external language influence. This may be one of the reasons for scholars to consider the speech of Coastal districts as the standard language.

The capital city, Hyderabad, is situated in Hyderabad district. It is the smallest district not only in Telangana area, but in the entire state. It has 36% Urdu speaking population. The single largest minority linguistic group in Andhra Pradesh is the Urdu speaking population, and it numbers around 7% of the total population of the state. At this juncture it is interesting to note that the Telugu language variety used in the capital

city of the Telugu speaking state is not considered as standard language³.

All the scholars (ofcourse,in the case of Telugu they are in countable numbers) study only the so called standard language, that is, the educated speech of the coastal dialect. The amount of scholarship devoted to Telangana Telugu and Rayalaseema Telugu is amazingly small.

The Rayala seema districts are geographically situated on the plateau and because of hot climate and desert like terrain, vegetation is scarce. The Telengana districts are underdeveloped, because of the lack of interest in developmental activities, shown by the feudal kings of the area in the past. Some districts of Telangana, for example Nizamabad and Warangal, are very fertile. But others, like Medak and Nalgonda, are drought prone. The coastal districts are very fertile and irrigation facilities are well developed. As a result, the people there are comparatively rich. Naturally, rich individuals have more say in matters of common interest. This may be another reason why the costal speech is considered to be the standard language⁴.

2.0 At the time of Independence there were only two Universities catering for the needs of the entire area. Andhra University in Visakhapatnam was controlling collegiate education in the coastal districts, while Osmania University in Hyderabad was responsible for educational development in the Telangana districts.

Up to the 1950s, Osmania University gave preference to Urdu and Persian studies. The Rayalaseema districts had no university. They were affiliated to either Madras or Andhra Universities. After independence, in the year 1954, Sri Venkateshwara University was established at Tirupathi. At

present we have eight Universities - Andhra University in Visakhapatnam and Nagarjuna University in Guntur (in the coastal area); Osmania University in Hyderabad and Kakitiya University in Warangal (in the Telangana area); Sri Venkateshwara University in Tirupathi and Sri Krishnadevaraya University in Ananthpur (in the Rayalaseema area), and finally the Andhra Pradesh open University, besides a Central University at Hyderabad.

This above factual survey shows that only Andhra University in Viskhapatnam (in the Coastal area) was initially concerned with studying the modern Telugu language. As a matter of fact, the language faculty in most of the university colleges in the Coastal and Rayalaseema area, until recently, belonged originally to Andhra University. Visakhapatnam was considered as a seat of learning for Telugu studies during these days. This fact contributes towards a further reason for the Coastal dialect being considered as standard.

3.0 We have seen that (i) the coastal districts are far away from outside influences; (ii) the coastal people are comparitively rich, and (iii) the coastal area is well developed in matters of eduction. Where all these three features co-exist, mass communication establishes firm roots. That is exactly what has happened in the case of Telugu. The newspapers, radio, cinema and journals of the whole Telugu- speaking community were managed by speakers from coastal areas. The users of the language tried to influence usage and also varieties that exist in other areas. This situation existed in the period between 1940-65, and prompted Krishnamurti (1957) to observe that the educted speech of the coastal dialect is what can be considered as standard Telugu. It is also the cause of Sjoberg's(1962) observation that a Sanskrit-like formal style exists in parallel with a relaxed informal style. All other

Telugu scholars and linguists who worked on Telugu language never looked beyond this point.

The observations of Krishnamurti and Sjoberg are appropriate to those prticular times. Now the situation has changed. What I mean to say is that the democratic set-up of the present day has produced neo-groups of speakers of the language who in the past were not in the limelight. The extremely complex ideas about language, eduction, and society of present day theoretical sociolinguists make the problem more difficult to deal with.

The question of defining standard Telugu is a non-controversial point to discuss according to many purists (including many pedagogues). What forms this standard assumes is the controversial point of discussion between purists with their absolutist views of correctness handed down from such grammarians as Chinnayasuri (1860), and repeated in school books from then on, on the one hand, and on the other, linguists who are aware of the history and diversity of Telugu and its usages. The attack from the traditionalists still goes on virtually unabated.

3.1 The modernists (linguists and non-traditional language scholars), however, have now assumed a different position for themselves by questioning the very notion of standard. Telugu. As Edward Stephenson (1974:211) observes, it is an interesting change 'from attackers who believe in an absolute standard to attackers who believe in no standard'. This notion of no standard is further strengthened by my data of fourteen subjects who are all lecturers in the Andhra Pradesh State Education department. The data present a relatively wide variation in the speech of the subjects. The traditionalists only take grammar into account when assessing the standard and give less importance to the pronunciation. They are thus not

aware of the wide variation in pronunciation which needs to be taken into consideration along with other parameters. As noted above, traditionalists are concerned more with a written standard form, but the modernists are concerned with the spoken standard form of the language, with an emphasis on pronunciation.

'Admittedly, standard... is difficult to define, is constantly changing, and is relative not only to time but to situation and place as well' (Stephenson 1974: 211). Stephenson continues his arguement further and states that 'Human languages tend to have both vertical and horizantal dimensions. Vertical lines separate the regional dialects and horizantal lines separate the social dialects' (ibid.: 212). These statements of Stephenson are considered when I examine the situation obtaining in Telugu dialects⁵.

Modern standard Telugu used in present - day literature and the mass media, has been identified as that variety which is based on the speech of educated people of the central (or Coastal) area. The language of the Coastal districts is accepted as the standard variety (cf. Krishnamurti 1957, 62; Kostic et.al 1977). It is also noted that there are differences between standard Telugu and non-standard varieties, particularly in phonology and morphology. 'In the process of acquistion of education, speakers of non-standard Telugu make a conscious effort to acquire the phonemic distinctions of standard Telugu' (ibid.: 2). This point is relevant for our discussion.

3.2 In the process of acquisition of education, non-standard speakers are subjected to strict vigilance to make them acquire the standard phonetic features but not the morphological features or syntax. It is a sort of audio-visual training for the non-standard speaker, because he is able to see the syllabary in printed form and to hear it pronounced by the teachers in a

standard way. Apart from this type of artificial classroom training, the learners do not have much opportunity to hear these sounds in natural language surroundings. In other words, education introduces certain phonetic features to the non-standard speakers, which they have to learn as they do in the case of foreign language sounds. As we are aware, in such situations there is always the possibility of under differentiation or over differentiation. The question that arises then is, whether it is justified to eqate education with the use of the standard form? My answer to this self-posed question is that it is not. My data provide ample evidence to demonstrate that even educated speakers do not have certain phonetic features in their speech which have been identified by Krishnamurti (1962) and Kostic et.al. (1977) as standard features. Kostic et.al. have come to the conclusion that inadequate eductional background of the speakers is responsible for the substandard variety, and that by identifying certain phonological features as standard, in accordance with prescriptive attitudes to the language, it is possible to describe a standard variety.

3.3 As Milroy and Milroy (1985) rightly point out, 'prescription depends on an ideology (or set of beliefs) concerning language which requires that in language use, as in other matters, things shall be done in the "right" way' (ibid.: 1). Linguistics is primarily a descriptive - oriented discipline. Linguistics is descriptive, not prescriptive. A linguist is interested in what is said, not what he thinks ought to be said. He describes language in all its aspects, but does not prescribe rules of correctness' (Aitchison 1978: 13). In this connection it is also necessary to remind ourselves of the observations of Daniel Jones (1956: XVI). Ignoring these and other such remarks, certain scholars set themselves up as public guardians of usage, commenting on supposed misuse of language and on supposed language decline.

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Milroy and Milroy (1985) refer to the formal structures of language as opposed to actual use of language - particular occasions. Their 'formal structure 'can be equated with that of la langue (approximately equal to 'language system') and their 'use of language' to la parole (approximately equal to language use) of Ferdinand de Saussure. It may also be equated with 'competence' and 'performance' of Chomsky (1965). Competence, according to Chomsky, is the underlying rules of language which the native speakers know. This is an abstract feature. When anyone comments about language, it is this abstract system that they have in mind, but they apply it to the language use. What is considered as 'standard' language is approximately this abstract language system. There are absouletly no speakers who represent the total abstract language system' in their speech, and majority of speakers do not practice it in actual language. Some speakers, depending on their educational level and the degree of formalness that the situation demands, may switch over to this abstract system. This infact is in an artifical language situation. Generally all the people continue to use nonstandard varities and still claim to agree that only the 'standard' form is 'correct'. This is a clear mismatch.

It is also noted by many linguists that no spoken language can ever be fully standardised. Spoken language is diverse in its forms and functions, whereas the norms of the grammar of written languages are uniform. Thus written usage in a way contributes towards the standardisation of speech. This has been carried over into prescriptive pronouncements on usage. Spelling has been considered at the uniform level of language use, and this in turn has contributed towards pronunciation. This is the condition obtaining in the languages of the world in general. Languages may also exhibit the principle of uniformity in usage,

applicable in other levels of linguistic organisation, i.e., sentence construction etc.. But in Telugu the standardisation has taken a different turn. The written language, i.e. spelling, is considered as the measuring rod for standard prounciation, but the written language is not taken as a basis for standardisation for other levels of linguistic description viz, morphology and syntax. For them the basis is the so-called 'standard' spoken variety. As this involves regional variations, there is no agreement over it.

4.0 Need For Standard Telugu

The need to define standard Telugu may be agreed upon by people for various reasons. I discuss these reasons under the headings proposed by Wolfram and Fasold (1974) who do not accept the concept of standard language, as opposed to the majority of sociolinguists.

1. Propriety

It is agreed that different styles of speech are appropriate on different ocasions, but often there is confusion of dialect with diction.

2. Psychological Theory

According to this, a standard language may serve a unifying function, by linking an individual speaker with a large community. Where as the unifying function may unite individual speakers, what is identified as the separatist function opposes the standard language to other languages or varities as a sepertate entity, thus potentially serving as a symbol of national identity (ibid.22). Further, Wolfram and

Fasold say that these above-mentioned functions homogenise the language. Language standartisation seems to be inevitable in most countries of the world. It is also observed by Wolfram and Fasold that one must realistically concede the establishment of prescriptive norms, for correct speeh is an inevitable by-product of the awareness of behavioural norms of all types.

If lar gauge standardisation is an historical inevitability, Mayers (1974) wonders why prescriptivists find it difficult to help it along.

3. Power and Prestige Theory

According to this, the rich and influential have matters in their own way in the language. Frederick Crews (1974) observes that, 'the speech habits of one linguistic group... the group, not surprisingly, containing nearly all the most powerful members of thety,' constitutes the standard language (Crews 1974:1673). If this is acceptable, then there is absolutely no need to consider the middle-class speakers' speech habits. Similarly, if the Brahmin speech is considered as the standard form, or at least as much the closest to it, there is little reason to consider the forms of other speakers. But, neither the economic class nor the social class alone contribute towards a standard Telugu⁷.

4. Better-tool Theory

This notion explains the individual's belief that the 'formal' language is necessary for a particular purpose. Those who argue in favour of this theory, probably have vocabulary in their minds. One is at a loss to know whether they mean vocabulary alone, or also pronunciation. In languages like Telugu, mere usage of vocabulary may not be useful.

Vocabulary may be used by speakers without adhering to the standard pronunciation. Telugu has borrowed Sanskrit vocabulary, and spelling pronunciation is a must in these cases.

It is opined now that there is no pressing need to define a presently non-existent form of the language. By trying to define the standard form of language we may raise more problems than we solve. As an anony mous scholar has noted, 'every man would have been willing, and many would have been proud to disobey'.

5.0 Can (and should) Standard Telugu be Defined?

In a way any attempt to define standard Telugu is redundant because most of us already know what it is: it is that kind of Telugu which Telugu people do not speak.

Kostic et.al (1977) have described the educated Costal speech as the generally accepted form of standard Telugu. But as pointed out earlier, 'eduction' is a concept which needs further clarification and consideration.

In recent years it has been repeatedly demonstrated by sociolinguists, that observed linguistic changes often correlate with social factors, e.g, Labov (1972), Trudgill (1974), Miloroy and Milroy (1978). Labov (1964) at the end of his thought-provoking paper, observes a set of those children who need the ability to use standard language, (but) do not learn this form of the language (ibid. 497). In a discussion that followed, Labov was asked to enumerate 'the indices of standard English in New York City' that had been the subject matter of his study. These indices are part of the language that children need to be able to use. In other words they are prescriptive features of a standard language. For Labov, the features are as follows.

- 1. The use of r in post-vocalic and pre-consonantal position;
- 2. The Vowel of bad, ask, dance, had, and cash.
- 3. The stressed vowel in awful, coffee, office.
- 4. The use of (θ) in thing, thin.
- 5. The use of [ð] in them, the

6.0 Suggested Indices for standard Telugu

Just as Labov provided indices for standard English, I would like to attempt the same for Standard Telugu. Reasons for selcting the particular fearures as indices are given below.

1. The use of Aspiration

Aspiration as a phonetic and phonogical feature occurs only in the borrowed lexical items from Sanskrit to Telugu. Education in ancient days was restricted to a privileged class. As a result, the speech of that particular group of speakers was enriched by aspiration as a phonemic feature. Even in that class of speakers, uneducated individuals may or may not preserve this feature. Thus aspirsation was looked upon as a mark of social prestige. Because the feature has acquired a prestigious status, uneducated spekers (and the educated also in some cases) created a number of hyper forms in the language. For example:

These in fact, are used for emphasis by upper-caste speakers who have aspiration in their phonological system. Modern education has given the feature of aspiration to all speakers in the written form. But in speech it has no place. Hyper forms are present only in speech and not in writing.

Furthernore, when aspirated consonants occur in the second syllable, the general trend is to shift the place of aspiration to the first syllable. In my data I have forms such as:

'ba:dha > bha:da 'problem, pain'
'ga:ndhi: > gha:ndi 'Mahatma Gandhi'
'katha > khata 'story'

Aspirating consonants at the appropriate places is one of the features which can be considered as a standard index. This is a caste marker according to my data.

2. Use of Fricative [f]

This is a sound borrrowed into Telugu from Urdu in ancient times and English in modern times. It has no corresponding grapheme in the Telugu syllabary. It is roughly equated with the voiceless bilabial aspirated plosive [ph] grapheme. Using [f] as a fricative sound is also a marker of education and social prestige. Uneducated speakers do not pronounce [f]. Certain castes may use [ph] instead. Uneducated speakers who do not have aspirates in their system equate it with [p].

3. The Use of Retroflex (Lateral, Nasal and Sibilant)

Retroflexion is non-native to Sanskrit. It was orginally borrowed from the Dravidian languages. Strangely enough,

the retroflexion of lateral, nasal and sibilant has been reborrowed into Telugu, and is used by Brahmin speakers. The native Telugu vocabulary has the retroflex stop series in word-initial and word-medial positions. The frequency is relatively less than that of dental or alveolar stops. Also, there are retroflex L and η in native Telugu forms, but these are instances found only in certain morphological processes. For example:

kannu 'eye' + lu 'pl. suffix kaηLu kaLLu eyes
baDi 'school' + lu baLLu schools
paηDu 'fruit' + lu paηdLu fruits
PaLLu

L and η do not occur in word-initial position. In word-medial position they are found mostly in gemination as far as native Telugu vocabularly is concerned. The vocabulary of native Telugu with a single retroflex[L] or $[\eta]$ has either become obsolete or has been reduced to dilect variant status.

The retroflex sibilant [S] may occur in word-initial position, but with reduced frequency. In word-medial position it is found in clusters with a retroflex [T], or may occur singly.

Unlike the earlier two features, this is neither a caste feature nor a feature reflecting educational status. It has something to do with wider socio-cultural exposure of the speakers.

4. The Vowel $[\overline{x}]$

This low front vowel is a clear marker of geographical region, and is found in the coastal dialect. It also occurs in the Rayalseema dialect, but only in vowel harmony and Sandhi situations. The Telugu Academy dialect bulletins indicate that [$\overline{\mathbf{z}}$] is fast acquiring phonemic status in the Rayalseema

dialect due to the influence of Coastal speakers (the so-called 'standard' speakers). The bulletins show that the Rayalseema dialect has the following forms: the Coastal and Telengana forms are shown for comparison:

Coastal: vacc $\overline{e}Du$ 'he came' Rayalaseema: vaccina: du Telangana: vacciNDu

 $[\overline{x}]$ never occurs in the Telangana dialect. A front, midvowel corresponds to this low front vowel. In mono-morphemic forms $[\overline{x}]$ corresponds to [e:] or a [y] glide followed by [a:]. For example:

Coastal Telangana Gloss $m \overline{x} ka$ me : ka 'goat' $b \overline{x} nku$ 'bank' bya : nku

Unlike the three earlier features, this is regionally based feature. Telangana speakers who do not have this sound in their repertoire are able to recognise the other groups by the presence of $[\overline{x}]$ in their speech and they, in turn, are identified by others because of the absence of $[\overline{x}]$. Telangana speakers cite as justification for their antagonism to $[\overline{x}]$ that there is no grapheme for this vowel in the syllabary.

5. Retention of Unstressed Second Syllable

The Telugu stress patterns offer a peculiar situation.¹⁰ The second syllable in a trisyllabic or polysyllabic word is unstressed. In the Coastal and Rayalaseema dialects this unstressed vowel is retained at least in the form of a [a]. But in the Telangana dialect this second unstressed syllable is lost, thus giving room for internal Sandhi (as scholars describe it). The clusters thus created are very many, and many of these clusters are restricted in their distribution to word-medial position only. In fact, Telangana Telugu has acquired this

feature under the influence of Urdu. It is said that in the Urdu language, the second syllable is weak and is generally lost, thus giving rise to word-medial clusters. The Telangana area was under Urdu speaking kings for a long time, and during that time the Telugu language was second to Urdu. In effect, the Telugu of Telangana developed the phonetic feature of dropping the unstressed second syllable. Most Telugu dialects have syllable-timed rhythm, i.e., an even rhythm is maintined throughout. Telangana Telugu differs from this, and appears to have, partly, stress-timed rhythm.

In the five features mentioned bove, the last two features relate to regional dialect varitions. The presence of [ae] is attributed to the influence of English and also to a phonetic development from *ina* (with a loss of nasal). Consonantal clusters are attributed to syllable loss resulting from the influence of Urdu. The other three features reflect the social situation.

6.1 Language is not a watertight compartment and language seepage takes place in all the social situations, and any analysis needs to be able to handle this. The indices suggested by me indicate whether the speaker is moving towards standardisation of the language or away from it, as far as pronunciation is concerned.

Standard pronunciation is widely considered to be the same as spelling pronunciation. Speakers are considered to be standard speakers if they retain all the features of spelling pronunciation. Sometimes we find in the data certain examples where speakers cross the sociolinguistic bariers and move towards standard pronunciation.

Notes

- This bilingualism may be a situation with or without diglossia. Fishman (1967) in his expanded theory of diglossia, warns us that diglossia and bilingualism are to be carefully distinguished and separetely studied.
- The bilingualism prevailing in these areas was, till recent times, considered as bilingualism with diglossia. Urdu was used for H functions and Telugu for L functions.
- 3. After the formation of seperate state of Andhra Pradesh, many people migrated to Hyderabad (which forms part of the Telangana area) and settled there. Thus two different dialect speakers of the same language came into regular contact with each other. This situation has given rise to a peculiar position in the Telugu language.
- (a) A speaker of dialect A acquires the features of B and is able to communicate in both A and B. This particular type of speaker need not be from only coastal or only Telangana area. Both dialect speakers are in good numbers. This is what Fishman (1967) identifies as bilingualism.
- (b) Some groups of speakers consider that their dialect is superior to the other and so observe bilingualism with diglossia. They restrict their own dialect for all H uses and the other dialect for L uses. We observe this tendency in the speech habits of coastal immigrants to the Telangana dialect area. Recent Telugu movies knowingly or unknowlingly adopted this technique in order to create some unwanted humour.
- 4. During the 1950s and later, it was a bilingualism with diglossia situation which existed in the Telugu speaking areas of Hyderbd City and District. On the other had the rest of the Telugu speakers present another sitution. They also practice bilingualism with diglossia, but for a different reason. In communicating with coastal speakers they use that dialect, and in all other cases they adhere to their own Telangana dialect. Note that there is no H and L function division.
- 5. Telugu dialects are defined in accordance with Ruth McConnell's (1979) definition of dialects. According to that definition 'A dialect is a subvriety of a language, either regional or social. It is distinguished from other subvarieties of the same language by unique

combination of language features: pronunciation (including stress and intonation) grammatic forms, words and expressions, meanings of words and expressions'.

- 6. Ironically enough, this observation coincides with the situation attaining in Telugy
- 7. Chomsky (1965: 4) suggests that the primary concern of a linguistic theory is limited to the 'ideal speaker-listner, in a completely homogeneous speech-community'. Cassidy (1986: 205) quotes the above statement of Chomsky and argues that while attempting to propose a thoery about language, it is necessary to look in to the language carefully. Chomsky's observation presupposes linguistic variation within speech communities, but at the same time un-ideal data are as relevant as the data that a thoeretician makes use of. He observes that variation is intrinsic to language and the theoretician must admit the realities of unidealised language. He argues that it is not for the theoretician to choose the language variety and frame theories, but that his function is to look at the language as it is.
- 8. Pringle (1983) observes that two opposed forces are at work in linguistic change. Firstly, there is the principle of imitation. When two speakers interact with one another each of them tries to adopt his speech slightly so that the other person can understand better. This in a way is an attempt towards a common form of the language, which may be identified as a standard language. Secondly, there is the principle of impulse to differentiate. When two speakers interact, one of them may try to show how his speech differs from that of the other. This is achieved by making use of an artificially elegant language variety, or by exaggerating every sound so that it represents the written form of the language. This type of speech is far removed from the normal day-to-day speech. The other speaker who may be bewildered by this, either keeps away from it, or imitates and acquires it incorrectly. Thus the social distance of classes is maintained.
- The first principle of Pringle (1983) is applicable to this phenomenon.
 A similar attempt is made for identifying indices for standard Telugu.
- 10. For a fuller discussion of Telugu stress rules, see Venkateswara Sastry (1987).

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RELATIVIZATION IN TELUGU ■

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The purpose of this paper is to study the different types of relativization strategies in Telugu and also to see which NP positions can be relativized in Telugu in terms of the nounphrase accessibility hierarchy proposed in Keenan and Comrie (1977).

The accessibility hierarchy (AH) is: SU > DO > IO > OB > GEN > Ocomp > where '>' means is more accessible than (SU stands for ubject, Do for Direct object, Io for Indirect object, OB for oblique Gen for genitive,O comp for object of comparison).

Keenan and Comrie (1977) propose the following > constraints which according to them held universally.

- 1. A language must have a primary relative clause forming strategy.
- 2. If a primary strategy in a given language can apply to a low position on the AH, then it can apply to all higher positions.

Keenan and Comrie observe that relative clauses formed on subjects are always amongst the most acceptable in any language, and those formed on objects of comparison, are judged to be only marginally acceptable. 138 A.USHA RANI

Three different types of relativization processes in Telugu are discussed. They are as follows: a. participal, b. clausal and c. peri-clausal, of the three types, (a) and (b) are major types where as (c) is close to clausal but is of conversational styl. The types are discussed below.

a. participial: This type does not have any explicit relative morpheme. The verb takes on its attributive form and the modified noun becomes head of the construction.

e.g.

- rāmu konna pustakam bā wundi
 The book which Ramu bought is nice.
- 2. ninna waccina atanu nā snē hitudu

 The one who came yesterday is my friend.
- b. Clausal: Corresponds to wh type relative clause in English or jo-vo type clauses in Hindi. There are two correlative markers \overline{e} and \overline{a} which correlate with each other in this type. This type can also be called as correlative.

e.g.

- ē sanchi erragā wundō ā sanchi bā wundi
 The bag which is red is nice.
- 4. ē abbā yi nā pustakamu cimpādō a abbāyi parigetti poyādu

The boy who tore my book ran away.

c. Peri-clausal: This type is more close to the clausal type. This type pre-supposes a speaker and an addressee. It also implies that the object and event mentioned have previous reference in the discourse and the addressee is understood to have the knowledge of it.

e.g.

- ninna waccēdē atadu nā snē hitudu
 The one who came yesterday is my friend.
- 6. erra cīra kaṭṭukunnadē āme nā cellelu

 The one who wore a red saree is my younger sister.

The above mentioned types are syntactic types of relativization. The semantic types like restrictive and non-restrictive which are widely discussed in literature also exist in Telugu.

Restrictive relative clauses serve to specify or narrow down the class or entities designated by the modified noun phrase.

For **e.g**.

7. ē ammāyi gulābi gaunu wēsukundō ā ammāyi nā kūturu

The girl who is wearing a pink frock is my daughter.

8. ē ciluka wēpa ceṭṭupai kūcundō ā ciluka nādi.

The parrot which is sitting on the neem tree is mine.

In the above mentioned examples the common noun which is the head is restricted from others.

A non-restrictive clause lacks this specifying function and induces essentially extraneous information about the modified noun. The non-restrictive relative clause gives 140 A.USHA RANI

additional information about the head NP which is the subject of the main clause e.g.

9. dillilo untunna akka haidrabad waccindi
The sister who stave at Delhi came to Hyderabad.

According to Ramarao (1975) unique reference is not restricted like,

10. ākāšamlo merisē sūryudu andariki weļturu istādu The shining sun gives light to everybody.

According to Keenan and Comrie (1977) languages differ as to which NP positions can be relativized and these differences are dependent on that of the other positions.

It will be seen as to which NP position will be relativized in Telugu in both the participal and clausal relative type. Examples are given below taking subjects first.

Subject Relativization

Participial type:

11. repu wastunna abbāyi mā pāta snehituļu

The boy who is coming tommorrow is our old friend.

Clausal type:

12. ē ammāyi fast wastundo ā ammāyiki praiju istāru The girl who comes first will get the prize.

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Direct Object Relativization

Participial type:

13. rama tinna araţi pandu tiyyagā unnadi

Clausal type:

14. rama ē araṭi paṇḍu tinnadō ā araṭi paṇḍu cālā tiyyagā unnadi

The banana which Rama ate is very sweet.

Indirect Object

Participial type:

15. sīta gauriki iccina pustakamu pōyindi

Clausal type:

16. sīta ē pustakamu gauriki iccindo ā pustakamu poyindi

The book which sita gave to Gauri is lost.

Genitive

Participial:

17. mīru cūsina abbāyi cellelu ūrlō lēdu

Clausal:

18. mīru ē abbāyi cellini cus ærō ā abbāyi cellelu ūrlō lēdu

The boy's sister whom you saw in not in town.

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Object of Comparison

Participial type:

19. bindu konna pustakamu kante kamala konna pustakamu karidainadi.

Clausal type:

20. bindu ē pustakamu konnadō ā pustakamu kaņţē kamala konna pustakamu karīdainadi

The book that Kamala bought is costlier than Bindu's book.

Oblique position:

This position includes locatives, instrumentals and ablative NP's.

Locative

Participial:

- 21. şi:lā balla mīda pettina golusu kanapadatam lēdu
- 22. și:lā e golusu balla mida pețțindo a golusu kanapadațam ledu

The chain which Sheela kept on the table is lost.

Instrumental Relativization

Participial type:

23. mīna kūralū kōsina katti cālā tēju

Clausal type:

24. mina ē katti tō kūralū kōsindō ā katti cālā tēju The knife with which Meena cut the vegetables is very sharp.

Ablative Relativization:

Compared to all the NP positions, ablatives seem to be the problem area for relativization in Telugu, examples are given below.

25. āsa madrās nunci haidrābād waccindi

Participial type:

26. *āsa waccina madras

Clausal types:

- 27. aṣa ē madras nunci haidrabad waccindō a madras
 It is Madras from where Asha came.
- 28. atanu kālēji nunci intiki waccēdu.

Participal type:

- 29. *atanu intiki waccina kālēji.
- 30. *atanu waccina kālēji.

Clausal type:

- 31. atanu ē kālēji nunci waccedō a kālēji The college from where he came.
- 32. nēnu ūru nunci pustakālu tecc ænu.

Participial type:

33. nēnu pustakālu teccina ūru

Clausal type:

34. nenu e uru nunci pustakālu tecc æno ā uru
The place from where I bought the books.

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According to Ramarao (1976) the ungrammaticality of the examples 26, 29 and 30 may be due to the intransitivity of the verb and grammaticality of 32 may be due to the transitivity of the verb. However, example 32 is ambiguous which can be resolved by the context.

In general participial relativization of ablatives seem to be a problem in Telugu. There can be different reasons attributed to the problem like:

- a. Examples 25, 28 and 33 are sentences with ablative phrases which might be creating a problem for Participial Relativisation inablatives by breaking the phrase.
- b. Paticipial relative type does not have either a relative pronoun or a correlative marker.
- c. The ablative marker *nunci* is deleted in the participal relative type.

The combination of these factors might be creating a problem because in other NP positions, participial relativization is possible.

The very fact that gloss in English could be given to all the Telugu relativization examples shows that all NP positions can be relativized in English. The possibility of ablative relativization in English could be due to the retention of case markers and use of relative pronoun.

Except ablatives in oblique case, all other NP's are relativizable in Telugu.

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UNEDUCATED TELANGANA TELUGU: HISTORICAL PERSPECTIVE

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Abstract: There are regional and social dialects in Telugu. Uneducated Telangana Telugu is one of the social dialects of Telangana Region. Though it is used only in nonformal situations, it is full of Dravidian lexicon and some of them were used in literature too. This paper aims to point out how some lexical items which were considered standard once upon a time lost their value in the modern colloquial standard language.

1. Introduction

Telugu, one of the literary languages of Dravidian family is spoken in Andhra Pradesh. The attestations of this language are available to us right from 6th Century onwards in prose form. Inscriptions in poetic form are available from 9th Century A.D. Both in prose and poetry the variety used for writing was different from colloquial spoken variety. The development of literary variety took place separately from Vyavahārika Bhashaa right from pre Nannayya period itself. Till the beginning of 19th century, colloquial variety was not used for writing purposes, and was considered non standard variety. As a result of vyavaharika Bhashodyama the distance between literary and colloquial dialects was reduced.

At present, there are four regional dialects in Telugu

(Krishnamurti 1979). North (Telangana), southern (Rayalaseema), Eastern (Srikakulam, Visakhapatnam), Central (Krishna, Guntur, East and West Godavari Districts). The variety widely used in newspapers, Television, Radio and fiction is based on the speech of the educated middle and upper classes of Central Andhra Pradesh.

Rest of the social dialects and regional dialects are confined only to non formal situations. Differences between standard and non standard can be linguistically formulated mainly in Phonology, Verb and noun inflexion and the choice of certain lexical items. In this paper an attempt is made to show how the uneducated Telangana speakers chose to use words of Dravidian origin and some of which were very much in vogue in literary dialect, when compared to the lexical items used by the speakers of standard dialect.

2.0 Methodology

Lexical Items peculiar to the uneducated Telangana speakers were collected by observing their speech. They were compared with the corresponding items from Standard dialect. Later, Cognates from other Dravidian languages are given to point out their origin. Based on Suryarayandhra Nighantuvu it was also observed whether these lexical items were used in literary dialect or not. This study enables us to know about the history of these lexical items which lost their place in Standard usage.

1. kontabo:vu It means 'to carry'. This word is used in the uneducated class of Telangana contrary to the standard form. Ta. kol (kolv-, kont-)-) to seize, receive, buy Ma. kolka (kont - imper, ko) to hold, Ka, kel, kolu, kollu (kond - mod imp. ko) seige, take away, take; Kod koll

(kovv- kond-) to take, Konda to bring; Tu. konu to take, held, keep Te. konu (kont) to buy, take, hold take up Kol. kor to bring; konda kor (kon- kot-) -) to purchase. (D.E.D. 1788) If the above cognates are compared, the forms either kol - or kon - are found in combination with -t, one of the nonpast suffixes which has an allomorph-t after stems ending in - n. Tamil, Malayalam, kannada and Telugu show the forms like kond or kont.

In modern Standard Telugu konu means 'to buy'. However in literary Telugu, the usage of this verb is found with the meaning 'to hold'. which in the following compounds convey the meaning 'to take'.

- 1. gay konu < kaykonu to take hand to hold hand to hold
- 2. ce konu to take
- 3. koni povu $kon + i + p\bar{o}vu$ to take having hold go
- 4. $koncu b\bar{o}vu$ $kon + cu + p\bar{o}vu$ to take

In the last two items kon occurs with Past Participle -i- or present participle -cu- which in turn are combined with another verb Pōvu 'to go' giving a new meaning 'to take'. Same compound with non past participle is continued in the uneducated Telangana Telugu in the form konta bo: Vu or koncabōvu which disappeared in Standard variety.

2. Padanu: It stands for 'wetness' in the speech of uneducated Telangana speakers, Ta. Pata (-pp), (-tt-) to

become moist, marshy; patam 'water, dampness, moisture; KO, padam wetness of land, Tu. padam puni to become wet Kui. pete soft, damp; padanu, Padunu moisture, dampness, wetness. (D.E.D. 3227). The cognates are found ejther with-m or with-n. In Old Tamil there was alternation between m and n, maram, maran 'tree', kulam kulan tank. Corresponding to these forms Telugu shows mranu tree. kolanu 'tank'. Old Kannada has kalan 'battlefield' (Ta. kalam/n). Kolan 'tank', Penan 'corpse' (Ta. Pinam/ n), maran 'tree' with n as opposed to dalimbam 'white cloth'; Odam 'boat' etc with -m (.Subrahmanyam 1983). Since this alternation is a common phenomenon in Dravidian languages, some languages showed -m- and some other -n-. This offers a stronger evidence to point out that Padanu is of Dravidian origin. This word is attested in Sabda Ratnakaram in the sense of 'a unit to indicate the rainfall which dampens the soil upto the depth of ten inches'. The word in its broader sense is retained in Telangana among uneducated speakers.

3. karre: It stands for 'black' corresponding to which the word nalupu is used in standard variety, cognates for karre are given below; Ta. kāru black; karukkal darkness, cloudiness; Ma: kari, karu black; Ko. kar black; To. kary scorched Ka. Kari blackness Tu. kariya blackness Te. karu black [D.E.D.1073(a)] though the form karre was not attested in D.E.D, it can be derived from kāru as the alternants are found in Telugu for other words also with both long vowel followed by a single consonant and short vowel followed by geminated consonants, e.g.: ceyi, ceyyi 'hand' neyi, neyyi 'ghee' etc., The word karu is found in modem colloquial standard only in certain compounds.

e.g. kāru ci : kati kāru mabbulu

thick darkness black clouds The phonologically modified form *karre* was used in literary dialect which is retained in non standard dialect also.

- 4. Pōri, PōraDu: These words stand for 'girl' and boy respectively in the uneducated Telangana Telugu. Cognates of this word are as follows. Ma. Pora a glutton, Ka, Pora child, little boy little girl Tu, Pora, pare lad; pori lass Go, Pori young of pig. Te. Pōri girl; PōraDu boy (D.E.D. 4603). In the standard Variety Pilla, ammayi girl; Pilla VaaDu, abbayi boy are used. The word Pore was used in literary dialect in the sense of a child which is retained in the dialect under discussion.
- 5. ko:pu: It stands for 'cup'. It cannot be treated as a modified form of English word cup, because cognates are found in other Dravidian languages.
- Go. (SR) kopa small earthen Vessel (TR) kopa small earthen Pot Pe kopel smallpot kol. (SR) koja 'cup' Go. khoja bowl (D.E.D. 2191). In all these languages it is found with the same vowel O either short or long. If kopa were to be a borrowing from English cup, it would have become kaPPu instead of kopa follwing the pattern of other borrowed words with the same canonical shape.

English	Telugu	
buk	bukku	'book'
Dram	Drammu	'Drum'
bas	bassu	'bus'

It can therefore be said that $k\bar{o}Pa$ found in the speech of uneducated Telangana speakers can be traced back to Dravidian origin.

6. nūku. ūku: Its central meaning is 'to push'. It is also used in the context of "to push the garbage out, to sweep" in the uneducated Telangana dialect. Following are the cognates from other Dravidian languages. Ta. nukku to shove, push, thrust side. Ka. nūku nugu,nunkuto shove, push reject; Kod. nu.k to push; Tu. nukuni to thrust push; Te. nūku to shove, push, thrust out; nūkudu shoving; Kol. nūk to push so as to move. (D.E.D. 3083). The usage of this verb is found in literary dialect also in the context of 'to push' which has disappeared from Standard colloquial dialect whereas it is retained in the dialect in question. In their speech the usage is extended to other context 'to sweep', nūku 'to sweep' alternates with ūku. The proto Dravidian initial n—is occasionally lost in many Dravidian languages.

e.g. *ni: (n) i:vu (O.Te) Similarly nūku ūku 'to sweep'

Both $n\overline{u}ku$ and $\overline{u}ku$ are in usage in the speech of uneducated Telangana speakers.

7. $\overline{O}k\overline{a}ram$: It means 'to vomit'. Which corresponds to $v\overline{a}nti$: of standard Telugu. This nonstandard form has cognates in other Dravidian languages.

Ta.okkalam, okkalippu, onkal retching
Ma. okkanam retching, nausea; Ka. okari
okarike, okarisuha, okala 'to retch', vomit
Ka. okari, Vomiting okarisu to retch
Te. okara, Okarinta, okarincu retching (D.E.D.866)

This word was attested in Sabda Ratnakaram also, though it was substituted by a Sanskrit borrowing Vānti in standard dialect.

8. *Paylam*: This is used by uneducated speakers of Telangana in the sense of 'be careful'.

Paylam biDDa Careful daughter (Voc) be careful O! daughter.

The standard form *padilam* from which Paylam is derived is used in different contexts.

e.g. dabbu Padilangā dācuko money carefully hide keep money carefully

The word jāgrata is used in standard variety in the context where Paylam is used by uneducated class of Telangana. Though the words like jagrte, badrva are prevalent in the sense of 'carefully' in colloquial Kannada, Kittel in his dictionary shows the occurrence of Padulamve (O.ka) hadulave (Mod. ka) "well being", safety, As far as Tamil is concerned the word Padanam is given in Tamil dictionary compiled by Kazagam according to which this word occurs in literary dialect in the sense of 'careful, to protect'. At present it is replaced in the colloquial standard variety by jagrata 'careful'. In Telugu also the word Padilam is used in the sense of 'careful' in literary dialect, which in colloquial standard Telugu is used with certain lexical items only.

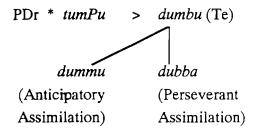
9. dubba: It stands for 'soil, dust' in the un educated variety of Telugu. In the standard variety dummu is used. Both the forms are derived from the same proto Dravidian form undergoing different kinds of phonological changes.

The cognates from other Dravidian languages are as follows.

Ta. tumPu 'dust'. Ka. dumbu id; Te. dummu dumaramu id. Based on these cognates *tumPu can be reconstructed to Proto Dravidian stage.

*NP > NB in Kannada and Telugu.

Further, in Telugu assimilation has taken place in opposite directions in nonstandard and standard dialects resulting in different phonological forms.



10. bokkalu: It stands for bones, In the standard dialect the word emukalu is in usage. The word bokkalu is a modified form of bomikalu which is found in the literary dialect. Cognates from other Dravidian languages are as follows.

Te. bomika, bomike, boke bone. Kol. bokka NK. bokka Pa. bula id. Go (L) boka (M) bula id. Ka. mule Kod. mule

Though the form *emukalu* is of Dravidian origin it is not attested in *Sūryarāyāndhra nighantuvu* as being used in literary dialect. The word *bomikalu* which was used in literary dialect is retained in modified form in the uneducated Telangana dialect.

Conclusion

The lexical items used in the uneducated Telangana dialect are not only of Dravidian origin but were used in the literary dialect also. These are replaced in modern colloquial standard variety with forms, either borrowed from Sanskrit or Dravidian words which were not used in literary dialect. It can therefore be said that, this particular variety of Telugu shows more of old literary forms which are of Dravidian origin.

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TIME SIGNALING LINGUISTIC FORMS IN TELUGU AND THEIR MEANING*

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Abstract: The time signaling linguistic forms in Telugu are systematically explored to understand their role in capturing linguistic timé as a pure semantic notion.

The time signaling linguistic forms (hereafter called TSLFs) are those which express time in any human language. These forms vary in form and meaning from language to language. In this paper an attempt is made to deal with the role of Telugu TSLFs in expressing time. For the sake of convenience, we shall devide the following presentation into three sections, viz. the future, the present, and the past.

The Future

We can precisely define the future as a time subsequent to the coding time (C). This can be shown in the following way:

Future

When we assume that some event will take place during this time, we are said to be talking about future time. No one knows what is going to happen in the time that is to be 358 B. VIJAYANARAYANA

or will come hereafter. So all the propositions which we talk about may or may not take place. Leech (1971) is of the opinion that we cannot be so certain of future happenings as we are of past and present events. Even then in our day-to-day discourse we are rather compelled to assume, speculate or predict about some events as happening at a specific point or during a specific period of future time. As in the case of the past and the present time, this too has no physical limit, but shifts according to the time of coding.

The following ten TSLFs are used to denote future in Telugu; they are:

- The future tense
- 2. Infinitive + past progressive tense of $p \overline{o}$
- 3. The past progressive tense
- 4. The future progressive tense
- 5. Infinitive + future tense of $p \overline{o}$
- 6. Infinitive + future progressive tense of $p \overline{o}$
- 7. Past verbal participle + future tense of un
- 8. Infinitive + (v) + \overline{a} li
- 9. Infinitive + (v) + \overline{a} lsi + $u\dot{n}di$
- 10. The past tense.

These TSLFs can express future in Telugu though there is a certain degree of semantic variation between them.

1. The future tense is very likely the most usual one employed for future in Telugu. This tense can be used with a time expression for a definite future arrangement as in the following examples:

- rēpisamay āniki nēnu dilli lo unţānu.
 'By this time tomorrow, I will be in Delhi.'
 - 2. \overline{i} \overline{a} div \overline{a} ran sinim \overline{a} ki veltanu. 'I will go to a movie this Sunday.'

It also indicates an additional idea of promise, intention or inevitability. The relative frequency of this form in Telugu is much higher than the other forms used for future reference.

As mentioned above, the future tense is used to predict, opine, assume or speculate about a future event as shown in (3), (4) and (5) below:

- 3. atanu rē pu vastā danukuntā nu. 'I suppose he'll come tomorrow.'
- 4. bahuśā vānni jaillo pedatāru, 'They'll probably put him in jail.'
- 5. $v \overline{a} du par \overline{i} k s a feyilavut \overline{a} d \overline{e} m \overline{o}!$ 'Perhaps he'll fail in the examination!'

In a way, the verbs like anukonu in (3) and the adverbials like $bahu \le \overline{a}$ in (4) and $\overline{e}m\overline{o}$ in (5) are adding something to the intended meaning of the proposition.

The future tense is also used to foretell future events, as in (6) and (7):

6. mana dēśan vaccē śatābdāntanikallā svayan samruddhamautundi.

'Our country will become self suffucient by the end of next century.'

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 marō vandē hḍlalō mā navuḍu visvā htarā ļā nni jayistā ḍu.

'In another hundred years, man will conquer the outer space.'

When a future proposition is made with the help of conditional, temporal, or sometimes, purposive sentences, the future tense is used in the main clause:

- 8. $v\overline{a}$ diki cebitē ninnu canput \overline{a} nu. 'If you tell him, I'll kill you.'
- vāna velisāka veldāmu.
 'After the rain stops, we will go.'
- 10. $v \overline{a} du tint \overline{a} dani m \overline{a} nsan vandutunn \overline{a} nu.$ 'I am cooking mutton so that he'll eat.'

Sometimes, certain events will take place without the intentional involvement of a person. Consider the following example:

11. atanni rēpu kā lējīlo cū stā nu.
'I shall see him in the college tomorrow.'

This event will take place on its own, because both persons study in the same college and attend regularly.

Similarly, the future tense is used to denote a future event as a fact:

- 12. vaccē nelalō ugādi vastundi. 'Ugadi comes in the next month.'
- 13. *i nelākhariki nāku mupphai ēnḍlu ninḍutāyi*. 'I will be thirty years by the end of this month.'

The future tense with a subject in the first person may be used to express intention made at the moment of decision:

14. "rājā! emiţalā unnāv?" ani adigindi. "talanoppigā undi."
"padukō. dākṭarni pilustānu."
"What's the matter, Raja?" she asked.'
'I've got a headache.'
'Lie down and I'll call the doctor.'

Now look at another example:

- 15. vaccēppuḍu nākō nōṭbuk testāvā?
 - al a ge, test a nule.
 - '- Will you get me a note-book while returning home?'
 - '- Certainly, I'll get it.'

Unlike (14), the prediction in (15) is not the new information but it is a response given to a request. This difference is due to the difference in the discourse features of the examples concerned.¹

Future habitual events can also be expressed in the future tense:

- 16. paurņami rojulu mallī mallī vastāyi.'The days of fullmoon will come again and again.'
- 17. ikam i daṭagūdā vasaṅtan tarvā tanē grīṣman vastundi.

'In future also the hot season follows the spring season.'

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This tense is usually employed in the formal announcements of the future programmes of the political leaders, high officials or foreign dignitaries in newspapers, radio and TV news bulletins. Following are some of the representative examples:

18. amerikā rāyabāri mistar buṣ āgaṣṭu 15 vēdukallō pālgontāru.

'The American ambassador, Mr. Bush, will participate in August 15 celebrations.'

19. usmāniyā yūnivarsitī vī. sī. maṅgaļavāraṅ nāḍu akhila bhāratīya bhāṣāvēttala sammēļanānni prāraṅbhaṅ cēstāru.

'The V.C. of Osmania University will inaugurate the All-India Linguists Conference on Tuesday.'

This tense is also used in expressing a potential danger, warning and prediction:

- 20. debbalu tințā vu ēmanukunţunnā vō!

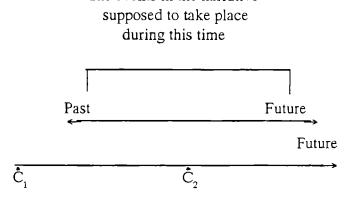
 'I do not know what you think, but you are sure to get beatings.'
- 21. i vēļappudu v i dhilōkeļļaku, pōkiri pillalu allaripedatāru.

'At this hour of the time don't go into the street, or loafers will tease you.'

22. paḍatānu, niccena gaṭṭigā paṭṭukō. 'Hold the ladder firmly, I may fall.'

A creative writer, sometimes, sets the plot of his story in the time future to writing (=coding) time, i.e. from

a vantage point in the future, he stretches his imagination backwards or forwards as required by the situation. This can be better explained with the help of the following diagram:



The events in the narrative

Here, C_1 represents the actual time of the narrative and C_2 represents a vantage point in the future. The propositions of all the events in the narrative supposed to take place prior to C_2 and later to C_1 employ all the TSLFs which are relevant for the past time expression. Following example is taken from such a writing in Telugu:

23. di. 16-3-2053 na rātri 8-45 nimuṣālaku hindi vārtalu ayyākā dēśapradhāna mantri ti.vi. lō prasangincāru. (from a story 'kūturu puṭṭālaṭ' by Palakura Sitalata; published in Andhra Sachitra Vāra Patrika: 3-2-84).

'On 16-3-2053 at 8.45 p.m., after the Hindi news bulletin, the Prime Minister spoke on TV.'

The event in (23) is assumed or imagined to take place in the future but depicted in such a way as if it had already happened. 164 B. VUAYANARAYANA

Sometimes, the future tense is also used to summarise the story so far in a narrative or fiction writing when it appears in instalments or parts (in a popular magazine or on the radio):

- 24. ... rāmānandan pātikēļļa sakuntalanu vivāhan cēsukunṭādu ... syāmala, nīraja ā inṭi nunci vellipotāru. syāmala kumārte sarojatopāṭugā vāru simlā cērukunṭāru. akkada syāmala tana bālya snēhiturālu kamalanu kalusukunṭundi ... [from jarigina kātha 'the story so far' of a serial novel svayan siddha by Arikepudi (Koduri) Kausalya Devi, published in Vanita (March, 1985)]
 - '... Ramanandam marries a twenty five year old Shakuntala ... Shyamala and Niraja go away from that house. Along with Saroja, the daughter of Shyamala, they reach Simla. There, Shyamala meets her childhood friend, Kamala ...'

The use of the future tense in the above example does not imply that these events are happening now, or that they will actually happen in future. This is simply a device, making a change from the past tense in which the *jarigina katha* 'the story so far' is normally described. See the following example where past tense is used for the same purpose:

25. nayana intilonci pāripoyindi. āmenu kondaru dundagulu venbadincāru ati kaṣṭan mī da āme railekkindi. railu peṭṭelo oka musalidi nayanaku āsarā ayindi. [from jarigina katha 'the story so far' of the earlier instalments of the serial pilupu

 $n\bar{i}k\bar{o}same$ by Mannem Sharada; published in Andhra Jyoti Sachitra Vara Patrika: 23-8-85] 'Nayana ran away from the house. Some blackguards followed her. With a great effort she got into the train. An old woman, in the compartment of the train, became her prop.'

This tense is also used in referring to the later part of a book, article, lecture etc.:

26. i roju nā upanyāsan civaralo moghalu sāmrājya patanāniki gala kāraņālani parišilistānu.

'At the end of my lecture today I shall examine the reasons for the downfall of the Moghul empire.'

This tense is usual when we are retelling or briefing or narrating a story to others. The following example is from the summary of a Telugu novel entitled *nikem kavali* by Kodavatiganti Kutumba Rao:

27. ... kā mantō kastūrini sprušincutā du. ... ā menu vivā hamā dā lani nirņayincukuntā du. andukuā me, "..." antundi. [from Andhra Jyoti Sachitra Vara Patrika: 17-8-84]

'... he touches her lustfully he decides to marry her. For that she says, "..."

The following excerpt is taken from a Hindi feature film (i.e. *Paar*) review appeared in a Telugu daily:

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28. ... krūratvan, nirdaya, amānusatvan tappa marō mānava guṇan lēni bhūsvāmi koḍuku skūlu ticarnu hatyacēstāḍu. paigā dānni oka rōḍḍu pramādangā nirūpistāḍu. dinni sahincalēni harijanulu adē paddhatilō bhūsvāmi koḍukunu hatyacēsi pagatīrcukunṭāru ... [Udayam: 19-8-85]

'... the landlord's son, who has no other human quality except cruelty, mercilessness and inhumanness, murders the school teacher. Besides, he proves it as a road accident. The Harijans, who are unable to tolerate this, take revenge by murdering the landlord's son in the same manner ...'

This tense may be used to report a statement of an author from his book or that of a character therein as in the following:

29. karma phalānni ā sincakunā ā vidhigā kārya sādhana cēyuvā dē parama puruṣuḍu ani bhagavatgī talō kruṣṇuḍu arjununitō ceptāḍu.

'In the Bhagavat Gita, Krishna says to Arjuna that the one who does his duty without being attached to the fruits of activity is a supreme man.'

Sometimes, this tense is also used to assess the characters in a story:

30. visvanāthavāri kathānāyikalu kasṭālatō
porādutāru, vāribratukulu vārē bratukadāniki
prayatnistāru, eppudu evari sahāyānnī
arthincaru.

'Viswanatha's heroines fight the hardships. They try to live on their own. They never ask for anybody's help.'

Further, this tense may be used in giving information about a physical state of things or persons in absence:

- 31. $r\overline{a}vug\overline{a}ri amm\overline{a}yilu podugg\overline{a} unt\overline{a}ru$. 'Mr. Rao's daughters are very tall.'
- 32. tājmahal cā lā bā gunṭundi.
 'The Tajmahal is very beautiful.'

This tense is also used in giving information regarding road directions etc. to a stranger:

33. tinnagā vellandi, sandhya ṭākīs vastundi. dāni daggara unna dukāṇāllō mīku kāvalsinavannī dorukutāyi.

'Go straight. You find Sandhya Talkies. In the shops nearby you get anything that you want.'

Sometimes, while reporting an event that took place more than once in a similar manner prior to the reporting time, this tense is used. Look at the following excerpt of a headline news item from a Telugu daily:

34. kondaru mārning vāk ki bayaludērutāru. pārkuloki pravēsistāru. oka bānbu haṭāttugā pēlutundi. akkadunnavāru tunātunakalaipotaru. bānbu vāsanā, cāvu vāsanā vyāpistundi. irakangā dilliīlonu, parisara prāntālalonū iravai nālugu ganṭala vyavadhilo 80 mandiki paigā amāyakulu canipoyāru. [Udayam: 12-5-85]

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'Some people start for a morning walk. They enter into the park. Suddenly a bomb blasts. The people there are torn into pieces. The odour of the bomb and death spreads. In this manner, in Delhi and other surrounding places more than 80 innocent people died in a twenty four hours time.'

The past tense form of the verb die ('canipovu') in (34) signals that the other verbs, though they are used in the future tense form, are actually referring to an event which occurred several times in a succession or simultaneously in different places during a period of time in the past.

In its restrinctive usage, the future tense is employed in seeking some information by questioning as shown in (35) below:

- 35. i bhojanan enta mandiki saripotundi?
 - bahuśā padimandiki.
 - '- For how many people this food is sufficient?'
 - '- May be for ten.'

The following sentences with future tense verbs in them signal repeated, customary, and habitual events. All these propositions are made based on the past experience or knowlege of the speaker or writer. Consider the following examples:

- 36. rāju kabaḍḍi āḍatāḍu.
 'Raju plays kabaddi.'
- 37. rā mayya ganilō panicēstā du. 'Ramaiah works in the mine.'
- 38. bhāratīyulu chāndasulu, andukē prati dāniki ēdustāru.

'Indians are a sentimental people. That's why they weep for everything.'

39. rāņi gudiki taracū veltundi. 'Rani often goes to the temple.'

Sentence (36) would mean either Raju can or know how to play kabaddi, or he does habitually play. The proposition in (37) suggests that Ramaiah is employed in a mine for a particular span of his life. The proposition in (38) points out that the people of India are grouped by a common trait.

The future tense, as in (39), is often associated with adverbials such as : appudappudu 'occassionally', pratiroju 'everyday', $v\bar{a}r\bar{a}nik\bar{o}s\bar{a}ri$ 'once in a week' etc. In such cases, the adverbials limit the duration of the action, so indicating a contrast with some other period. At the same time, they reinforce the notion of repetition and indicate nearly how many times an event is repeated.

This tense is appropriate for expressing general or eternal truths. The following statements are true for all time:

40. himālaya pārvatālu ellappudu mancutō kappabadi untāyi.

'The Himalayas are always covered with snow.'

- 41. samudrapu niru uppagā untundi. 'The sea water is salty.'
- 2. Infinitive + past progressive tense of $p\bar{o}$ tends to indicate a future signification. Here is an example with this form:

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42. idi nājī vitanlo adbhutamaina roju kā botundi.

'This is going to be the most wonderful day of my life.'

This form denotes not only a future event but also an intention when the subject is human:

43. nēnu vā ļļaku ceppabotunnā nu. 'I'am going to tell them.'

This form is also used in a wider range of contexts, wherever the proposition made is about a future event resulting from the present state of affairs. Consider these examples:

- 44. aṭu cudu, varṣan padabōtundi. 'Look there! It's going to rain.'
- 45. \bar{i} ceṭṭu pūtaku r \bar{a} bōtundi.

 'This tree is going to blosom.'

In each of the above sentences the state of affairs giving rise to the future event are taken for granted. The proposition in (44) is made when one sees dark clouds in the sky. In (45), the proposition is possible on two counts: it is the age of tree or the season that is responsible for its blossoming.

The proposition made by this form generally indicates the immediate future wherever the context does not provide a future time reference, or a future time adverbial is not present. cf. (46) with (47):

46. ēn cēyabōtunn āvu?
'What are you going to do?'

47. $m \bar{i} r u tar v \bar{a} ti n \bar{a} takanlo natincabotunn \bar{a} r \bar{a}$?

'Are you going to act in the next play?'

This form not only indicates a premeditated action, as mentioned earlier, but also expresses a plan:

- 48. ippudē calānu konukkoccānu. byānkulō parīkṣa fīju kaṭṭabōtunnānu.
 'I've just bought the challan form and I'm going to remit the examination fee in the bank.'
- 3. The past progressive tense when used with a future time adverbial, refers to a forth coming event resulting or contextually realised from a present plan, programme or arrangement:
 - 49. repu emi cestunn aru?
 'What are you doing tomorrow?'
 - 50. $r \overline{a} \operatorname{strapati} j \overline{n} \overline{a} \operatorname{ni} j \operatorname{ailsing} \overline{i} \operatorname{nela} 14 \operatorname{na} (\overline{a} \operatorname{div} \overline{a} \operatorname{ran}) \operatorname{nagar} \overline{a} \operatorname{niki} \operatorname{vastunn} \overline{a} \operatorname{ru}. [U \operatorname{dayam} : 13-7-85]$ 'The President, Jnani Jail Singh, is coming to the city on 14th (Sunday) of this month.'

Like the infinitive + past progressive tense of $p\bar{o}$ form, this tense (particularly when it is not associated with a time adverbial) generally refers to the immediate future, e.g.

51. nēnu kūda mī tō vastunn ā nu. 'I'm also coming with you.'

Narayana Rao (mimeo) points out that the past progressive tense may be alternatively used with a prospec-

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tive verb form (infinitive + past progressive tense of $p\bar{o}$). He illustrates this point with the following two examples:

nēnu rēpu veļļipōtunnā nu. 'I am leaving tomorrow.'

nēnu rēpu veļļipobotunnā nu. 'I am going to leave tomorrow.'

The present writer agrees, to some extent, with the above opinion as long as these are used for the future reference. But, when they are used in the past propositions, they cease to function as alternatives [see examples (85) and (86)].

- 4. The future progressive tense expresses an ongoing action at a time in future. The future time adverbial must be provided either intersententially or intrasententially:
 - 52.tvaragā vaccēyandi. nēnu mī kosan nī riksistunţā nu. 'Come soon. I will be waiting for you.'
 - 53. $r\bar{e}p\bar{i}$ samay \bar{a} niki $m\bar{a}$ par \bar{i} kṣa jarugutunṭundi.

 'Our examination will be taking place tomorrow by this time.'

This tense can also be used to denote an action or event which habitually or repeatedly took place in the past and likely to continue in the future.² Look at the example below:

54. nēnu rōjū vy ā y ā man cēstunt ā nu. 'I do physical exercise daily.'

- 5. Infinitive + future tense of $p\bar{o}$ is used to denote generally, the immediate future, i.e. just after coding time:
 - 55. vīru ippuḍu 'yuddhamū śānti' anē viṣayanpai māṇlāḍabōtāru kāvuna mīrantā niśśabdangā undālani kōrukuntunnānu.

 'He is about to talk on the topic 'War and Peace', therefore, I request you all to be silent.'

It is also not abnormal to use this form in expressing repeated, customary and habitual actions. The proposition in this case takes only animate subject(s):

- 56. atanu pratirojū pēkā ta ā dabotā du. 'Everyday he goes to play cards.'
- 6. Infinitive + future progressive tense of $p\bar{o}$ indicates a future event. Compare (57) and (58):
 - 57. $rep i p \bar{a}$ țiki atanu par i kșa r \bar{a} yabotunț \bar{a} du.

 'Tomorrow by this time he will be going to write the examination.'
 - 58. rēpu atanu par ī kṣa r ā yabōtunn ā ḍu.

 'Tomorrow he's going to write the examination.'
- 7. Past verbal participle + future tense of un, which was labelled as 'Future Perfect Tense' by Arden (1873), expresses an action perceived to have already been completed prior to a definite point of time in future. In this case a future time adverbial is obligatory since it specifies the point from which the past is visualized:

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59. nīvu tirigoccē sariki āme nīkosan vantacēsi untundi.

'By the time you come back she will have cooked for you.'

Venkateswarlu (1982) is of the opinion that this form has no existence in Telugu. But the examples like (59) above is sufficient to disprove his claim.

- 8. Infinitive $+(v) + \overline{ali}$ construction, when used with a future time adverbial, indicates an obligatory future event:
 - 60. nēnu rēpu rājāni kalavāli.
 'I have to meet Raja tomorrow.'

It is also used for future predictions:

- 61. sāyantrankallā varṣan paḍāli. 'It should rain by evening.'
- 9. Infinitive $+(v) + \overline{alsi} + undi$, when used with a future time adverbial, denotes an obligatory future happening and sometimes indicates a predetermined or destined future event or state:
 - 62. atanu mundu mundu ennō manci panulu cēyā lsi undi

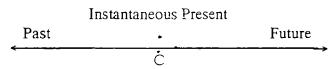
'He is destined to do many good things in future.'

10. The past tense forms of a couple of verbs indicate immediate future event. The following example is extracted from Venkateswarlu (1982: p. 552):

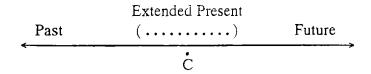
idigō, vaccā. (= ippuḍē vastā nu) 'Look! 'I'll come right now.' The verb caccu 'die' when used in the past tense form with the first person human subject, as given in (63) below, expresses a future event visualised spontaneously (whether it is accomplished in an immediate future or not):

The Present

The present time can be notionally devided into instantaneous present and extended present. The former indicates an event simultaneous with the coding time. It may be expressed diagrammatically thus:



The latter shows no limitation on the extension of the state into past and future time. That is, it indicates the present time extending into the time preceding and following the coding time. This may be shown as follows:



In the first case it is a point of time, NOW, and in the second case it is a period of time, NOW. However, this distinction is only conceptual and does not affect the verb forms. Hence, It should not be associated with the non-progressive and progressive aspects respectively.

In Telugu, the present state or event is expressed by:

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- 1. The past progressive tense
- 2. The past tense of un
- 3. The future tense of un
- 4. The future progressive tense.
- 1. The past progressive tense is used to denote an activity taking place now (i.e. coding time). Observe the following examples:
 - 64. atanu ceppindi niku ceptunn a nu. 'I'm telling you what he said.'
 - 65. manan ippudu ekkadiki veltunn \overline{a} mu n \overline{a} nn \overline{a} ? 'Where are we going now, dad?'

In (64) and (65), the events are occurring simultaneously with the coding time, that is **now**. In fact they started earlier than coding time and may continue to occur in the future also. Take for instance (64): when someone is passing on a message, may stop for a while and remind the listener of what he is doing by uttering (64). (65) may be used by a child asking his father when they are in a running car.

The past progressive tense, when used to denote the present, also adds an additional meaning of limited duration. This is true whether it proposes an instantaneous or extended present as the division shown above. Consider these examples:

- 66. aṭu cuḍanḍi, vā ḍu sigareṭṭu tā gutunnā ḍu.
 'Look there! he is smoking a cigarette.'
- 67. $v \overline{a} d \overline{i}$ madhya sigareṭlu $b \overline{a} g \overline{a}$ tagutunn $\overline{a} du$.

 'He is smoking a lot of cigarettes these days.'

The sentence (66) indicates an ongoing action of limited duration, which itsel is in the instantaneous present time. On the other hand, (67) indicates an action occurring frequently these days in extended present time. Here, again the action is of limited duration.

How extended is the extended present? This depends on the individual propositions made for the present time. Each situation has its own limitation by the law of nature pertaining to time span. So, it is with the help of time and frequency adverbials, one can visualise the extended present time.

- 2. The past tense of *un* in Telugu, when used to denote present time, doesn't express present activity. For that as shown above only past progressive tense is employed. The propositions intended for present state will take this as shown below:
 - 68. atanu inkā akkadē unnādu.
 'He is still there.'
 - 69. prastutan prati 1000 mandi puruşulaku 970 mandi strīlu unnāru. Ī paristhiti ilāgē konasāgitē prati 1000 mandi puruşulaku 100 mandi strīlu untāru.

'At present, there are 970 women for every 1000 men. If this trend continues, there will be 100 women for every 1000 men.'

The present state of the proposition in (68) is realised contextually. At the same time, the proposition made in (69) is true for present time denoted by the adverbial *prastutan*. Further, this proposition is about instantaneous present time.

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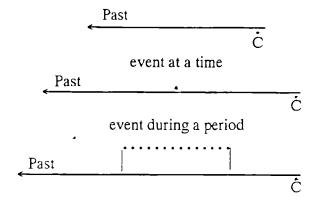
3. The future tense of un also indicates the present state which is not within the immediate proximity of the codifier and listener(s) at the time of coding. For example, see (70):

- 70. jānaki ekkada?
 - bahuśā, vantintlo untundi.
 - '- Where is Janaki?'
 - '-Probably, she is in the kitchen.'
- 4. The future progressive tense is used to express the activity or event which is taking place or in progress at the time of coding. In these cases, again like the proposition in (70), the activity or event will not take place within the proximity of the codifier and listener(s). This proposition also presupposes the earlier experience or knowledge on the part of the codifier, e.g.
 - 71. vā du ippudu ēn cestuntā du?
 - hōmvark cēstuntā du.
 - '- What will he be doing now?'
 - '- He will be doing his homework now.'

The future and future progressive tense, as shown in (70) and (71), also express events which are taking place during the extended present time.

The Past

The time which precedes the coding time is assumed to be past. In this case, the event can be traced at a definite point or during a definite period of time on the unending past scale. Observe the following diagrams:



Telugu employs the following devices to refer to something which occurred in the past:

- 1. The past tense
- 2. The past progressive tense
- 3. Infinitive + past progressive tense of $p\bar{o}$
- 4. Infinitive + past tense of $p\overline{o}$
- 5. Future relative verbal participle + pronoun
- 6. Future verb stem + progressive suffix + future relative verbal participle of un + pronoun.
- 7. Past verbal participle + past tense of un
- 8. Past verbal participle + future tense of un
- 9. Infinitive + $(v) \div \overline{a} li$
- 10. Infinitive $+(v) + \overline{a} i s i + u \dot{n} d i$.

1. The past tense, in Telugu, expresses on one-time completed past event:

72. vinod atani vaipu parisilanag ā cusādu. 'Vinod looked at him searchingly.'

This may be identified either by a past time adver-

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bial in the sentence as given in (73):

73. mēmu pōyina vēsavilō ūṭ i ki vellāmu. 'We went to Ooty last summer.'

or may be implied by the context, as shown in the following:

- 74. selavallō ēn cēs ā vu?
 - cālā pustakālu cadivānu.
 - '- What did you do in the vacation?'
 - '- I read a lot of books.'

The propositions made in (73) and (74) above are those of a definite past time orientation, i.e. the time of an event was pin-pointed by a specific time adverbial. Sometimes, the past reference is made in association with a non-specific time adverbial of duration. Compare (75) with (76) below:

- 75. nēnu mūdēndlu kar ā te nērcukunn ā nu. 'I learned karate for three years.'
- 76. nēnu 1981 nundi 1983 varaku karāte nērcukunnānu.

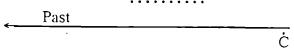
'I learned karate from 1981 to 1983.'

The habitual or frequentative events that occurred over a limited period of time in the past can also be expressed by the past tense, e.g.

77. ā rōjullō rōjuku nā lugu gantalasēpu cadivānu. 'In those days I read four hours a day.'

2. The past progressive tense, in Telugu, is used to express an activity in process in the past. This activity is of limited duration, but its exact limits are not specified, viz:

Past continuous activity



If this tense is used without a time adverbial, the proposition may indicate gradual development:

78. pakşulu gūļļu cērukuntunn ā yi.
'The birds were coming back to their nests.'

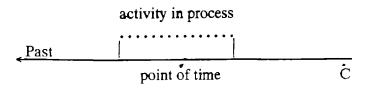
Sometimes, the activity which is in process, indicated by the past continuous, may not be fulfilled.

Consider the following:

79. atanu par i kṣa rāstunnāḍu, unnaṭṭunḍi ataniki gunḍepōṭu rāvadantō parikṣa rāyaḍan mānālsi vaccindi.

'He was writing the exam. But he was to stop writing the examination due to sudden heart attack.'

This tense in colligation with a point of time in the past indicates an activity still in process, i.e. began before that time and probably continued after it. Observe the following diagram and the examples:



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80. atanu udayan ē dugantalaku vyāyāman cēstunnādu.

'At seven in the morning he was doing physical exercise.'

81. nēnu akkadiki veļļē sariki atanu vyāyā man cē stunnādu.

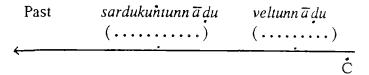
'When I went there he was doing physical exercise.'

(80) implies that the $vy \overline{a} y \overline{a} man$ had started before seven in the morning or the time that I went there, as in (81), and that it continued after that time.

It also indicates the future in the past as shown by the following example:

- 82. ā roju nēnu vellēsariki atanu baṭṭalu sardukunṭunnāḍu.
 - enduku?
 - adē rōju sāyantran atanu bonbāyi veltunnādu andukani.
 - '- That day when I went there he was packing his dresses.'
 - '- Why?'
 - '- He was going to Bombay same evening that is why.'

This can be presented more clearly with the help of a diagram:



Sometimes, the past progressive tense is used in the place of a past tense (for the past propositions). Observe (83) below:

83. narēs sarasana rādha tolisārigā kathānāyikagā naṭistunnadi. ṣuṭiṅgu bhāgaṅ pūrtayina i citraṅlō iṅkā satyanārāyaṇa, allurāmaliṅgayya, sudhākar, annapūrṇa, ramāprabha taditarulu mukhya pātralni pōṣistunnāru. [from a film report published in Andhra Jyoti Sachitra Vara Patrika: 17-8-84].

'For the first time Radha is acting as a heroine by the side of Naresh. In this movie, whose shooting part was over, along with others. Satyanarayana, Allu Ramalingaiah, Sudhakar, Annapurna, Rama Prabha are also playing in the leading roles.'

In this case, the shooting part of the film was already over by the time of its reporting. So, most normal choice is the past tense rather the past continuous tense. See (84) below:

84.nar ē ṣ sarasana r ā dha tolis ā rig ā kath ā n ā yikag ā naṭincindi. ṣ ū ṭingu bh ā gan p ū rtayina i citranlō inkā satyanā r ā yaṇa, allur ā malingayya, sudhā kar, annap ū rṇa, ram ā prabha taditarulu mukhya pā tralni poṣincāru.

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'For the first time Radha acted as a heroine by the side of Naresh. In this movie, whose shooting part was over, along with others, Satyanarayana, Allu Ramalingaiah, Sudhakar, Annapurna, Rama Prabha also played in the leading roles.'

3. Infinitive + past progressive tense of $p\bar{o}$ with a past time adverbial, expresses unfulfilled plans in the past:

85.ārōju ēń jārigindō telusā? atanu bassekkabōtunnāḍu. i lōga kālujāri kinda baddādu.

'Do you know what happened that day? He was going to get into the bus. But by then his leg slipped and fall down.'

Here, the activity in fact was in progress and hindered by some unprecedented cause.

This form refers to a pre-programmed event in the past which was not fulfilled, and latter in sequence to another fulfilled event in the past. That is, it refers future in the past:

86. vā llu adēr ōju sāyantran āstrē liyā veļļab ōtunnāru, kāni antakannā mundē agni pramādanlō antā caccipōyā ru.

'They were going to go to Australia that evening, but before that all of them died in the fire accident.'

See also the following diagram in connection with the above example:

unprecedented event fulfilled

pre-programmed event unfulfilled

Past

ċ

- 4. Infinitive + past tense of $p\bar{o}$ with a past time adverbial, indicates the non-beginning of the event in the past:
 - 87. rātri atanu ṭēbul daggara kūrconi caduvabōy āḍu, adē samayā niki laiṭlu āri pōyā yi.

'At night sitting near the table he was about to read, at the same time the lights went off.'

This form is also used with a different connotation for a past event:

- 88. par ī kṣa rāyab ō y ā ḍu.
 - 'He went to write the examination.'
- 5. Future relative verbal participle + pronoun expresses past custom, habit, repeated action, or state which contrasts with the present:
 - 89. atanu gēyālu rāsēvādu, ippudu navalalu rāstunnādu.

'He used to write poems/compositions, now he is writing novels.'

This also denotes a past state or habit that continues to exist, but in a changed form:

90. atanu ippatikannā ekkuvagā tāgēvādu.

'He used to drink heavily than he does now.'

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This can be used even when we are not making a contrast between past and present, in this case we are casually mentioning someone's customary habit or routine during an unspecified or specified period of past time, as illustrated in (91) and (92):

- 91. āme rōju itaku vellēdi.
 'Daily she ued to go for a swim.'
- 92. 1980 lo atanu rojuku padi gantalu viśrānti tīsukunēvādu.
 'In 1980 he used to take rest ten hours a day.'
- 6. Future verb stem + progressive suffix + future relative verbal participle of un + pronoun makes the similar proposition (i.e. indicating past habitual or frequentative events) as expressed in (77) and (92). But the only difference it shows is the durational aspect of the event:
 - 93. atanu pratiróju konnigantalas \bar{e} pu vy \bar{a} y \bar{a} man c \bar{e} stund \bar{e} v \bar{a} du.

'Everyday he used to do physical exercise for few hours.'

This form is not used with the verbs indicating a state. Hence, the following expression is unacceptable semantically in Telugu:

- 94. * ame cala andanga untundedi.
 'She used to be very beautiful.'
- 7. Past verbal participle + past tense of un, though very rare in usage, can express past. Arden (1873) and

Venkateswarlu (1982) treat this form as a separate tense. The former uses the label 'Perfect or Pluperfect Tense' and latter, samapta vartamanakalan (=present perfect tense):

95. mēmu akkadiki vellēppaţikē āhutulantā vacci unnāru.

'The invitees had already come when we reached there.'

96. intavaraku m i kenn o mārlu ceppi unn anu. 'So far I have told you several times.'

These can be alternatively said with the help of a past tense as shown below:

97. intavaraku mi kenno mārlu ceppanu. 'So far I have told you several times.'

But the expression which uses the past verbal prarticiple + past tense of un is more emphatic in nature than the one which uses the past tense.

- 8. Past verbal participle + future tense of un, which was labelled as 'Future Perfect Tense' by Arden (1873), can be used by someone who makes a guess or confirms the possibility of an event in the past:
 - 98. atanu ninna i sarikē guntūru ceri untādu.

 'Yesterday by this time he might have reached Guntur.'
- 9. Infinitive $+ (v) + \overline{ali}$ in association with a past time adverbial, refers a past time event, which was planned ear lier. Sometimes indicates a past time unfulfilled obligatory actions:

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99. atanu lekkaprakaran ninna ravali 'As plan he had to come yesterday.'

- 10. Infinitive + (V) + \overline{alsi} + $u\overline{n}di$ indicates past unfulfilled events or refers the events which are destined to take place at a future point of time in the past:
 - 100. ninnanē carcaku anumatincālsi vundi, (Udayam: 15-9-85)

'You should have allowed for a discussion yesterday'.

101. atanu peddavāḍai rākṣasulni sanharincalsi undi. 'He was destined to kill the demons when he attains the adulthood.'

Notes

- * An abridged and modified version of chapter IV of Author's MPhil dissertation, Osmania University. In transcription, n stands for anusvāra.
- 1. Following Widdowson (1973:112-13), (14) may be described as a text by 'cohesion' and (15) as a text by 'coherence'.
- 2. This does not include the propositions about 'all-time' truths, which are only expressed by the future tense (see examples (40) and (41)].
- 3. This form is a variant of caccanu

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NEWS OF THE DEPARTMENT

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M.Phil. Dissertation Abstract

AN ACOUSTIC ANALYSIS OF URDU VOWELS

Mohd.Ansari ■

The M.Phil thesis titled "an Acoustic Analysis of Urdu Vowels" deals with the acoustic features of Urdu vowels in terms of their quality and quantity (i.e.duration), as measured from the spectrograms. The measurement of formant frequencies of vowels in hertz and duration in milli seconds is provided and discussed in detail. The first chapter presents an introduction to the language and its dialects, scope and aim of the study. It also discusses the data and instrumental technique used (i.e.Sound Spectrograph).

The Second chapter presents the phonological sketch of Urdu speech sounds and gives a picture of Phoneme-grapheme relations.

The third chapter deals with the duration of Urdu vowels occurring in constrasts in different positions and context. Various factors studied include the topics such as effect of consonant voicing, place of articulation, manner of articulation, stress and nasalization etc. This chapter forms one of the core areas of thesis.

The Fourth chapter studies the measurement of formant frequencies of vowels and their acoustic discription.

The last chapter summarises the findings of the study. Thus this thesis contributes not only towards the understanding of the differences among Urdu vowels but also corresponding differences in other languages.

tan Of TELUGU AS SPECIAL ANAPHORIC PRONOUN (SAP)

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The term 'pronoun' originally belongs to Latin language. Later it came into English through French language. The original meaning of this term is same as we are using it today in English and Telugu languages i.e. 'word used instead of a noun'. Pronoun is a subset of noun and it is commonly used to indicate two functions (Bhat 1978: 6).

- 1. Pragmatic or deictic use, for referring to individuals which are directly involved in the speech act itself (i.e. speaker addressee and referent).
- 2. Anaphoric use, for referring to individuals, things, events that have been otherwise mentioned in the sentence itself. If anyone observed the following two examples, they can understand the above mentioned two types clearly.
 - rādha rājuto nīgurinci ceppindi 'Radha told Raju about you'.
 - rādha tanagurinci rājutō ceppukonnadi.
 'Radha told Raju about herself.

In sentence (1) $n\bar{i}$ 'you(r)' is used pragmatically where the identity has to be obtained from the speech act context itself. Here it refers to one of the speech act

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participants namely, the addressee. In (2) the pronoun tan 'her' is used as an anaphoric of the noun $r\bar{a}dha$ which is mentioned in the same clause itself.

Ist and IInd person pronouns (nēnu, mēmu, manamu, nīvu-mīru) are used pragmatically only, whereas the reflexive, and relative pronouns of English are used anaphorically. But third person pronouns which are demonstratives in Telugu are used for both pragmatically as well as anaphorically there by giving rise to referential ambiguity:

- rāju badinunci vacceţappudu atadu ēdustunnādu. 'While Raju was coming from the School he was crying'.
- 4. sīta āme pustakānni balla mīda pettindi 'Sita kept her book on the table'.

The third person pronouns ataqu and ame of above sentences can refer either to subjects (Raju and Sita) of the sentence or to other than subjects whose identity is to be determined from the speech act context (i.e. either anaphorically or pragmatically). These third person pronouns will be ambiguious even when they have reference exclusively to anaphoric pronouns as in (5).

5. rāmu sūryam to atani pustakānni balla mida peṭṭa mannādu.

'Ramu told Suryam to keep his book on the table'.

Here atani 'his' is a definite anaphoric pronoun. But it can refer either to the subject or to the object noun (i.e. $r\bar{a}mu$ or $S\bar{u}ryam$). The referential scope of the pronoun is not restricted to a particular noun. This type of ambiguity can be termed as intra-anaphoric.

In Telugu the so-called reflexive pronouns tanu (sg) tamu (pl) are used to disambiguate such ambigious sentences, as tanu refers only to an immediately preceding noun in a sentence.

- 6. rāmu tana pustakānni ballamīda peṭṭamani rājuku iccindu
 - 'Ramu gave his book to Raju to keep it on the table'.
- 7. sita tana kalānni rādhaku iccindi. 'Sita gave her pen to Radha'.

Here the tan pronoun refers to subjects of the above sentences. It is due to the fact that when the pronoun tan is used immediately after a noun, it refers to the preceding noun only. In some contexts the tan also gives referential ambiguity.

It may be observed here that the *tan* pronoun in Telugu appears only with reference to the third person pronouns. And it doesn't denote the first and second person pronouns at all. If we combine first and second person pronouns with *tan* for referential purposes, the resulting constructions are un-acceptable.

- 8. * nēnu tanaku vandukonnānu 'I for him cooked self'.
- 9. * nīvu tanaku vandukonnāvu 'You for him cooked—self'.

From these examples it can be seen that tan pronoun refers to third person pronouns only, but not to all the nouns in reflexive meaning as in Hindi $\bar{a}p$ and English

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self. In Telugu tan represents the identity of preceding nounphrase only. But it does not indicate reflexivization. Even after the occurrence of tan pronoun in sentence we do not get the reflexive meaning. But after adding the auxiliary verb kon to main transtive verbs the sentence will change into reflexive.

- rādha tanaku vanṭa cēsindi
 'Radha cooked a meal for her'.
- 11. rādha tana tandriki vanta cēsindi 'Radha cooked a meal for her father'.

These two sentences have the same structure except that they differ in their object NP's. In (10) the object noun shows identity with the subject of the sentence, whereas in (11) the object and the subject are different referential entities. Here (10) is unacceptable due to the fact that in Telugu when there is coreference between subject and object NPs the auxiliary verb kon should be suffixed to the main verb. (11) is not at all a reflexive construction as the subject and object nouns are referentially different. The only possible way to convert (10) into reflexive is to add the auxiliary kon to the main verb as below.

12. rādha tanaku vanta cēsukonnadi 'Radha cooked for herself'.

After suffixing the kon to the main verb, it is easy to differentiate the reflexive sentence (12) from a non-reflexive sentence like (10). Lastly the pronoun tan also can optionally be deleted from the sentence without affecting its meaning.

rādha vanta cēsukonnadi 'Radha cooked for herself'.

It is clear that even without the so-called reflexive pronoun *tan*, we can get the reflexive meaning as expressed in the above sentence.

In Telugu tan is not obligatory in surface structure of a reflexive sentence, but auxiliary verb kon is obligatory in such a sentence. So it is treated as a reflexive marker in Telugu. Now we will compare it with the English reflexivizer, to show the different processes involved in two languages.

In English we can find sentences which have undergone the reflexive transformation.

14. He shaved himself.

One can assume that the above sentence with a reflexive pronoun is to be derived from a deep structure which contains a non-reflexive pronoun or form as in

15. He shave he

Only when the object NP is identical with the subject NP, the reflexive transformation changes the object NP into a reflexive pronoun. For the present purposes let us use the following structural description.

When the 1= 5, the reflexive transformation takes place or applies to that sentence.

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On meeting this matching condition, the morphophonamic rules of English convert the forms like he + reflexive to himself, I + reflexive myself, they + reflexive themselves and so on. Here the condition of identity is compulsory for the structure to undergo the reflexive transformation as in all other languages.

Even Didayi, a munda language has this same condition to undergo the reflexive transformation.

- m \overline{\ove
- 18. mæmæha korta kvarge he himself beard shaved 'He shaved beard himself'
 - 19. nain nainha ndoyge
 I myself cooked
 'I cooked for myself'.

Here the marker -ha works as -self of English language. This marker occur with all pronouns (like self) and refers the preceding noun or pronoun in the sentence. If the subject and object nouns are not coreferential and reflexive transformation doesn't apply to that sentence at all, and the marker -ha will not affix to the object pronoun.

In Telugu when this identity condition is met, the auxiliary verb kon is suffixed to the main verb as a sort of agreement marker. But the second NP of English and Didayi takes the suffix self and ha respectively to indicate the coreference between subject and object NPs of the clause. It

goes without saying that in Telugu also the two NPs (subject & object) of sentence are required to be identical in order to undergo the reflexive transformation.

20. rādha vanta cēsukonnadi 'Radha cooked for herself'.

The above (surface structure of) reflexive sentence is derived after applying the reflexive transformation. The deep structure of (20) can be postulated as in (20 a).

20 a. rādha rādha kosam vanṭa cēsindi Radha cooked for Radha

In Telugu when the two NPs (third persons) are identical/coreferential, the tanization transformation (pronominalization) applies, whereas pronominalization transformation applies elsewhere. Here the tanization transformation converts (20) into (20 b).

*20 b. rādha tana kosam vanta cēsindi 'Radha cooked meal for her'

When the pronoun *tan* occurs in the sentence the refelexive transformation converts the verb into reflexive by adding auxiliary *kon* as

20 c. rādha tana kosam vanta cēsukonnadi 'Radha cooked food for herself'.

Lastly even the pronominal deletion rule deletes the tan and resultant sentence is

20 d. rādha vanṭa cēsukonnadi 'Radha cooked food for herself'.

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The verb with kon auxiliary will give reflexive meaning, even without the pronoun tan. As Telugu has the subjectival or werbal agreement system, the kon form will be added to werb as agreement to get reflexive meaning. The werbal agreement itself gives the full details of the subjects offithe sentence.

The other Dravidian languages like Tamil also have a similar process. According to Kumaraswami Raja (1972) and Padmanabha Pillai (1981), Tamil tan doesn't denote the reflexivization, but the occurrence of tan in a sentence is treated as a result of a transformation called tanization. And they argued that insertion of auxiliary kol in the main werb gives the reflexive meaning.

According to Bhat (1978: 52-80) tan of Kannada doesn't give the reflexive meaning, but he treated it as a special anaphoric pronoun which refers to a particular nounphrase. So he names it as a special anaphoric pronoun (SAP) and pointed out that Kannada too has a verbal process to denote the reflexive meaning.

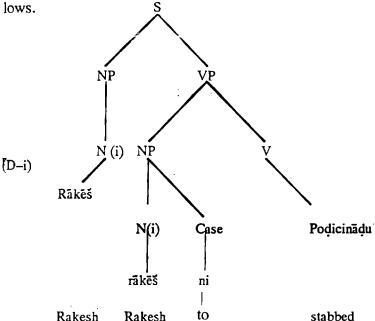
From the above discussion it can be said that as in consonance with its sister languages like Tamil and Kannada, tan of Telugu also doesn't denote the process of reflexivization, but it is used to indicate the antecedent noun only when both the NPs are identical. At the same time it is used to disambiguiate the sentences which are referentially ambiguous by the use of the third person pronouns as in (3) to (7). This tan refers to a particular noun which we want to specify. In Telugu, also we can treat tan as a special anaphoric pronoun (SAP) as Bhat treated it in Kannada. Let us observe another example with illustrations for a clear understanding.

21. rākēš poducukon [n(ā)] du Rakesh stabbed himself.

One can assume the following deep structure to above surface structure.

21 a. rākēš rākēšnu poḍisin(a)ḍu. 'Rakesh stabbed Rakesh'

The phrase marker of this sentence will be as fol-

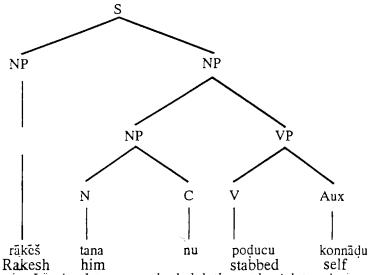


The presence of two identical NPs which command each other, triggers the reflexivization transformation.

In Telugu, this transformation adds the auxiliary verb ton to the main verb. And the second NP changes to a pronoun tan by the tanization transformation. So the structure of above sentence change to

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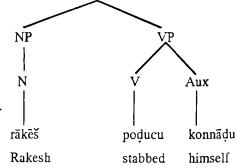
21 (a)rākēš tananu poducukonnādu 'Rakesh stabbed himself'.



Lastly the pronominal deletion rule deletes the tan pronoun without affecting the meaning of the sentence giving rise to (21)

21. rākēš poducukonnādu 'Rakesh stabbed himself'.

It is shown here that the pronoun tan is the output of the tanization transformation, whereas the auxiliary verb



kon is the output of the reflexivization transformation. Most probably both the transformations will apply in the same environments and tanization is a feeding rule for the reflexivization rule. If the tanization doesn't apply to the sentence the eflexivization rule also doesn't apply to that sentence. Tanization is a type of pronominalization only. In English the reflexivization process is treated as pronominal because of the inflection of pronoun, adding 'Self' to all 1st and IInd, and IIIrd person pronouns i.e. him changing to himself, her to herself etc. But we didn't find any verbal inflection. In Telugu reflexivization, we find the verbal inflection, i.e. by adding kon auxiliary. So the process was treated as a verbal (device). Suppose we accept tan as a reflexive marker, like English 'self' or Didayi 'ha' (which occur with every pronoun Ist, IInd, IIIrd) it doesn't denote all the pronouns with acceptable meaning. The occurrence of tan with first and second person pronouns, renders the constructions unacceptable.

- 22 a. nēnu nannu tiṭṭukonnānu 'I scolded myself'
 - * b. nēnu tananu tiṭṭukonnānu 'I him scolded self'.
- 23 a. nīvu ninnu tiṭṭukonnāvu 'You scolded yourself'.
 - * b. nīśu tananu tittukonnāvu 'You him scolded self'.

The sentences with tan pronoun are ungrammatical, because tan never refers to first and second person pronouns. But the accusative form of the subject pronoun is used to refer the subject noun (optionally). If we observe

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the sentences with third person subjects even there also the pronoun *tan* is not obligatory to get reflexive meaning.

- 24. vānni vādu tittukonnādu 'He scolded himself'.
- 25. āmenu āme tiṭṭukonnadi 'She scolded herself'.
- 26. dāndi adi korukonnadi 'It bit itself'.
- 27. vāļļanu vāļļu tiṭṭukonnāru 'They scolded themselves'.

These sentences are reflexives though there is no tan pronoun in the sentence, but the accusative forms of the subject pronouns are options. This shows that the pronoun tan is not necessary concomitant of reflexivization.

It is well known that the reflexivization in Tamil is expressed by the auxiliary verb *kol* (Padmanabha Pillai 1981:70–74)

28. avan aţittukontān 'He beat himself'

When ko! occurs after the transitive verbs, it shows that the agent and the patient are one and the same person. Here we can express clearly by setting up the deep structure as follows:

28 a. avan avanai ați + past 'He him beat'.

When the subject NP, and object NP are identical the reflexive transformation adds the *kol to* the main verb of the sentence.

28 b. avan avanai aṭi-koļ + past 'He him beat self'

Other transformations like agreement and verbal participialization take place and finally give the sentence –

28 c. avan avanai aţittukkonţān 'He beat himself'.

Finally the equi-NP deletion rule applies and deletes the second NP from the sentence without affecting the meaing of the sentence.

28 d. avan aţittukkonţān 'He beat himself'.

In Kannada the auxiliary verb *kol* 'to take' or 'to seize' is added to denote the reflexivization (Bhat 1978: 15).

29. rāni apaghatakka avazannē dūrikonḍālu Rani accident for her only blamed self 'Rani blamed herself for the accident'.

As it was discussed above, most of the Dravidian languages denote the reflexive meaning through the mechanism of adding auxiliary verbs only. The reflexives in Telugu occur in/with different tense and moods, as can be seen from the following examples.

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- 30. $v\bar{a}duk\bar{o}$ (imp) use for yourself.
- 31. vādukonnādu (past) 'used for himself'.
- 32. *vādukontādu (future)* 'will use for himself'.
- 33. vādukontunnādu (present conti) 'using for himself'.

This auxiliary kon occurs in the negative constructions also. The negative forms of the above examples are as follows:

- 30 a. vāduko vaddu 'Don't use for yourself'.
- 31 a. *vādukonalēdu* 'Didn't use for himself'.
- 32 a. vādukonadu/vādukōdu 'Will not use for himself'.
- 33 a. vādukonadam lēdu 'Not using for himself'.

Reflexive forms frequently denote that the action is performed for the benefit of the subject or that it is performed by the free will and choice of the agent. The reflexive verbs give two types of readings i.e. (1) benefactive (ii) sequential. The following examples show the distinction.

- 34. vādu illu kattukonnādu (benefactive) 'He constructed a house for himself'.
- 35. vādu bhāryaku cīralu konukkoni vaccādu 'He bought sarees for his wife and came' (sequential)

In the above examples the auxiliary kon gives different meanings. In (34) the house was constructed by others like contractor or mason, but it is constructed for the benefit of the subject (noun). Here the kon was added to indicate the benefactive meaning. In (35) the kon was used to benefit the person referred to by the object NP (bhārya) through the activity of the subject (vādu). Here object enjoys the benefit of subject's action ciralu konadam 'buying sarees'. Became of two verbs occurring one after another. the kon form became obligatory in such situation. If kon is deleted the two verbs become unrelated. This type of kon usage can be termed as sequential.

Reflexivization always occurs within the simple sentence. In Telugu it is manifested mainly in the verb phrase through the auxiliary kon. The tan pronoun was termed as reflexive pronoun by the earlier grammarians (Arden, Caldwell etc) because they were influenced by the Indo—European language structures and adopted that system into Telugu description also. But some recent studies Bhat (1978) Kumaraswami Raja (1972) etc. who originally belong to Dravidian group of languages, treated that tan as an special anaphoric pronoun and at the same time they accept kon or kol as the reflexive marker. The tan occurs even in a sentence where no reflexivization is involved in order to disambiguate the referential identity of nouns in the sentence.

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36.rangadu atani/vādi bhāryatō sinimāku pōyindu/vellaedu 'Ranga went to film with his wife'.

There are two readings for above sentence, the pronoun $v\bar{a}du$ 'he' can refer either to Ranga (subject) or some other person whose identity can be obtained from the speech act context. Similarly the pronoun $\bar{a}me$ in (37) also given rise to ambiguity.

37. sita āme cellenu pilisindi 'Sita called her sister'.

In such contexts the pronoun tan only can disambiguiate the reference of nouns i.e. it refers only to the subject of the sentence but not to anybody.

38. rangadu tana bhāryatō sinimāku pōyindu 'Ranga went to film with his (own) wife'.

Like that

39. sīta tana cellenu pilisindi 'Sita called her (own) sister'.

Now there is no any possibility of ambiguity. The reflexivization process in Telugu occurs only when the two identical NPs are involved in an action of a sentence. This rule operates only within a sentence. The *tan* pronoun occur even in embedded sentences provided that the subject NPs of the two sentences are identical.

It is obvious from the above discussion that no tanization takes place without reference to subject-knownor unknown of a full sentence. This tanization process is also a kind of pronominalization. But the difference between them lies in the fact that the tanization is necessarily an intra-sentential process, whereas pronominalization is an extra-sentential process. So we can call the tan as intra-sentential anaphoric pronoun and others ataḍu 'he' āme 'she' are extra sentential anaphoric pronouns. Tanization is not an obligatory in all reflexive sentences, but it is optional. The tanization and reflexivization are two different processes in Telugu, tanization is manifested only in nounphrase, whereas reflexivization is found in verb phrase. But in English and Didayi both pronominalization and reflexivization are manifested in noun phrase only.

In Telugu we get reflexive meaning by adding ko to the existing imperative form. The subject of the imperative is 'you', the second person pronoun only. The tan pronouns never denote or refer to a second person at all. So imperative gives reflexive meaning by adding ko to the verb.

- 40. kottu 'beat'.
- 41. kottukō 'beat your-

The (41) is the reflexive form of (40). The negative forms of the above sentences will be as follows.

- 42. kottavaddu 'don't beat'.
- 43. kottukõvaddu 'don't beat yourself

On similar lines the transitive sentence change to reflexive by the addition of *kon* to its verb.

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44. vāḍu debba tagilincinḍu (tr) 'He hurted (somebody)

45. vādu debba tagilincukonnādu (reflex) 'He hurt himself'.

The negative forms also shows similar structure with negative marker $l\tilde{e}$.

- 46. vādu debba tagilincalēdu 'He didn't hurt' (any body).
- 47. vādu debba tagilincukōlēdu 'He did not hurt himself'.

There is no tan pronoun in these sentences but still they are all reflexive sentences. So we can say that tan does not indicate the reflexive meaning of sentences, but it is a kind of special anaphoric pronoun, which occur as intra-sentential anaphoric and it refers to third person pronouns only.

The English reflexive marker *self* occurs with all pronouns in the object position but never in the subject position. If they occur in subject position the sentence will be ungrammatical.

48. John cooked for himself.

But not

- 49. *Himself cooked for John
- 50. Sita scolded herself

51. *Herself scolded sita

But the tan of Telugu occur in the initial position as a third person pronoun. And this tan doesn't show any gender distinction.

52. rangadu tanakōsam baṭṭalu konukkonnādu 'Ranga bought clothes for himself'.

and also

53. tanakōsam (ani) rangaḍu baṭṭalu konukkonnāḍu 'Ranga bought clothes for himself'.

These examples show that the *tan* of Telugu is one of the third person pronouns which occurs in the initial position. We can find *tan* in subject position of compound sentence as well.

54. tanu kūḍā fasṭu rāvālani gita kaṣṭapaḍi cadavutundi

'Gita is studying hard as she also wants to stand first'.

From the foregoing discussion, we can conclude that tan of Telugu acts as a third person pronoun which refers to a noun in a particular context (i.e. when the two NPs are in referential identity) but not a reflexivizer exclusively.

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DEVELOPMENT OF WORD INITIAL RETROFLEXES IN MODERN DRAVIDIAN LANGUAGES*

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Abstract: The treatment of retroflexes in Dravidian hitherto has not received serious attention from the Dravidian Scholars. Passing statements on the retroflexes appearing in word initial position, from the works of various scholars were brought together and discussed. It was found that these formulations accounting for word initial retroflexion in Dravidian are incomplete and isolated. The present study examines the data available in DEDR and various other sources. Five different phonological phenomena are identified: Metathesis, Metathesis and Cluster Simplification, Assimilation, Nasal induced retroflexion, and onomatopoeia. Evidence from recent studies in articulatory-acoustic phonetic features was provided to account for the nasal induced retroflexion.

1.0 Introduction

Proto-Dravidian did not have retroflex consonants in word initial position (cf. Caldwell, 1856, 2nd edn. 1875, reprinted 1976: 144; Subbayya, 1990). However, Dravidian Etymological Dictionary [Burrow and Emeneau, Revised edn. 1984=DEDR (First published 1961)] lists 57 entries (DEDR entry nos. 2938–2994) grouped under the etyma beginning with retroflex consonants besides a large

number of etyma in various languages originally beginning with a vowel or a non-retroflex consonant that have cognates beginning with retroflex consonants. The development of word initial retroflexes in the latter type of etyma is explained by Krishnamurti (1961:51) in the following lines: 'From a comparative study of Dravidian vocabularies, one observes that the retroflex consonants (t, n, l, l) and the liquids of the alveolar series (r, r, l) do not occur initially in common Dravidian etyma. But in Pre-Kui-Telugu certain phonetic changes took place (in the prehistoric) period, resulting in a shift of these consonants to the initial position'. Krishnamurti (1961:53) also mentions that 'd seems to have arisen from *t before a preconsonantal nasal of the retroflex series'. Later, Zvelebil (1970:102) in a slightly modified version expresses his view that '*t does not occur word initially in Dr. However, there is a number of items in many Dr. languages where t or d occur in onlaut. This may be explained either as the result of developments from *t before a pre-consonantal nasal of the retroflex series (in Te. Pa. Kui, Kur. and Malt.), or as the result of metathesis (e.g. Te Kon. Kui, Kuwi, Kol.) or as occurrences in onomatopoetic words (e.g. in Ta.); or finally, borrowings from non-Dr. languages'. On the consideration of the foregoing observations, the development of word initial retroflexion in modern Dravidian languages may be summarized in the following schema:

- 1. t > t / -Vn(t)
- 2. $VCV > C\overline{V}$ Where C = t, d, n, l, z
- 3. Onomatopoeic expressions
- 4. Loanwords

However, a substantial number of words remain unexplained by the above schema. There are about 235

etymological groups in DEDR (form approximately 5% of the total DEDR entries) which contain at least one cognate with an initial retroflex consonant. Of these, only 78 instances of word initial retroflexion are due to metathesis. whereas another 30 instances of word initial retroflexion may be due to the assimilation of the word initial dental *t (or its reflex d) to a following preconsonantal nasal. There are about ten instances of word initial retroflexion that are accounted for by onomatopoeic phenomenon. Words of unsettled etymological history with areal connections of more than one language family (indo-Aryan and Dravidian. Munda and Dravidian, and Indo-Aryan, Dravidian, and Munda) cannot be more than a dozen. This leaves out about another one hundred etymological groups containing one or more cognates exhibiting word initial retroflexes which need to be accounted for. Parji has word initial retroflexes t and d which correspond to Proto-Dravidian *t. Burrow and Bhattacharya have observed this fact as early as 1954 and resolved that 'When the first syllable of a word terminates in cerebral t (tt) or d, an initial dental is by attraction, cerebralized in all three dialects, e.g. todu 'rope', tod 'to touch' (Ka. todu), titta 'straight' etc'. (1954 : 4). Also, Burrow and Bhattacharya (1963: 240) mention that 'as in most of the Dravidian languages of this area an initial dental (in Kuvi) is usually assimilated to a following cerebral'. Similar explanation may be extended to account for the word initial retroflexes which correspond to Proto-Dravidian *t in about seventy etymological groups represented by the following Dravidian languages viz., Ku., Kw., Go., Kon., Pe., Mand., Kol., Nk., Ga., Kur., Malt. This leaves out yet about sixty word groups which must have derived word initial retroflexion through other means.

2.0 On the development of retroflexes in Indo-Aryan

On the Indian linguistic scene, the spread of retroflexes or cerebrals have attracted a great deal of attention from various scholars for over a century (cf. Portunatov, 1881; Wackernagel, 1896; Turner, 1924; Chatterjee, 1926; Zvelebil and Svarny, 1955; Emeneau, 1956; Master, 1960; Kuiper, 1967; Burrow, 1971; Schwarzchild, 1973; Deshpande, 1978; and Hock, 1975). Retroflex plosives didnot occur in Early or Proto-Old Indo-Aryan or Pre-Vedic Indo-Aryan or Ur-Rgvedic (cf. Deshpande, 1978), though they did occur sparingly in Rgvedic, and increasingly in the later stages of early and classical Sanskrit.

A number of scholars in the field have considered the origin and spread of retroflexes in Old Indo-Aryan as due to spontaneous development (Bailey, 1952-68; Burrow, 1971; Hock, 1979), while a second group of scholars have contemplated that they are the result of extraneous reasons like the influence of Dravidian (Emeneau, 1956; Kuiper, 1967). A third group (Turner, 1924) proposed for the presence of both the factors viz., internal cause for impromptu phonological developments and an external influence for the spread and diffusion.

What is interesting and relevant for the present purpose is not the origin of retroflex consonants in Old Indo-Aryan but their distribution. According to Schwarzchild (1973: 482) '... in Sanskrit, apart from a few exceptional cases, retroflex plosives do not occur initially except in a few borrowed words. These words are attested mainly in late texts and particularly in lexicographical works; some have clearly come into Sanskrit via Middle Indo-Aryan'.

However, the situation changes gradually towards the later stage of Middle Indo-Aryan and particularly in Apabhramsa which reveal the continual influx of words with initial retroflexes. By the way, among a number of words in early and classical Sanskrit, identified by Burrow (1945, 1946) as having Dravidian origin, there is not a single word beginning with an initial retroflex plosive.

3.0 Retroflexes in common Dravidian

Unlike in Old Indo-Aryan, the reconstructed Proto-Dravidian phonemic inventory has the following set of retroflex consonants viz., *t, *n, and *z. However, recall that none of the consonants belonging to retroflex (and alveolar) series occur in word initial position in the reconstructed Proto-Dravidian. As in the case of Old Indo-Aryan, Dravidian too acquired word initial retroflexes comparatively recently. Particularly, Telugu provides inscriptional evidence for historical development of word initial retroflexion in a considerable number of cases (the phenomenon is a shared innovation among SCDr. languages) indicating that this change started only from the early centuries of the Christian era.

4.0 Retroflexes in Munda Languages

The reconstructed phonemic (consonant) inventory of the third important language family of India i.e., Munda consists of a lone retroflex consonant – *d among thirteen others.

p b	t []	ġ []	(c) j	k g
m	n	[]	ñ	ń
	r			
	1			

According to Zide (1964: 414) the distribution of *t and *d is asymmetric and it is preserved in most of the modern languages. However, considering the distribution of the dental and retroflex plosives in the present Munda languages, it is unlikely that in the early stages of Munda there were retroflex consonants as separate phonemes (see, Kuiper, 1965; Schwarzchild, 1973). Furthermore, according to Bhattacharya (1975:84), 'The retroflex sounds do not occur uniformly in Munda. The variation between the dental and the retroflex series is so frequent in it that it is very difficult to understand the pattern of change ... It is therefore quite possible that the retroflex sounds, ... are not radical in Munda and also in AA.'

5.0 On the consideration of the facts presented in 2.0, 3.0, and 4.0, one can reach the conclusion that there has not been a considerable amount of borrowing of words with initial retroflexes either from Indo-Aryan or from Munda languages into Dravidian. Now it must be assumed that a greater part of these words if not the entire stock with initial retroflexes to have developed in Dravidian indigenously, and only in certain cases we must look for an entirely different source which remains to be discovered.

5.1. A Survey of Dravidian development of word initial retroflexion

I have attempted to organize various cognates with word initial retroflexion occurring in about 220 entries into different categories. I propose to examine each of these categories according to a particular linguistic change and trace their development to Proto-Dravidian.

5.2 Metathesis

The following entries from DEDR have words in modern Dravidian languages, with initial retroflex consonants, corresponding to Proto-Dravidian root syllable type VC-V, where the middle consonant is fronted to word initial position through the the operation of apical displacement rule (Krishnamurti, 1978:1):

DEDR No. Language(s), Source:

- 63 Tu., Te., Kon., Ku., Kol., d-; Nk. dh- < *at-ank-
- 77 Te., Kon., Ku., Kw. d-< *at-
- 79 Te., Kw. d-; Ku. r-< *at-
- 83 Ku. d- < *at-ay
- 86 Te. $d < *at a\dot{y}$
- 88 Kor. (T), Ku. d- < *at-ay-kkāy
- 109 Te. d- < *az-appi
- 276 Kon., Kw. r- < *az-i
- 277 Te. d- < *az-
- 282 Ku., Kw., Pe., Mand. r-< *az-
- 295 Ku. d- < *al-ac-
- 297 Kw., Pe., Mand. r- < "al-
- 305 Kw., Mand. r-< *al-
- 319 Ku. r-< *ar-ac
- 432 Ir. d- < *it-appu
- 435 Te. d-< *it
- 437 Ka. (Hav.), Tu., Kor., Te. d-< *it-arkku
- 443 Ka., Te. d- (>Kon. r-) < *it-i
- 444 Ku. d-<*it-

- 447 Te (>Kol.), Kw. d-< *it-ay
- 449 Te., Go., Nk. d-< *it-am
- 452 Go. d- < *iz-ip-
- 453 Ku., Kw., Pe. d-< *it-
- 495 Kw. d-: < dākaangi < *il-ay-
- 502 Te. (<Go.), Kon., Kol., Nk. d- < *iz-ik-
- 504 Ku., Kw. d-<*ri-<**iz-
- 505 Pe. r-<* iz-ic-
- 508 Te d/d-< *iz-a
- 513 Go. d/r/r-, Kw. r/r- < *il-ay
- 524 Ku. r-?< *it-uku
- 591 Ku. d, Kw., Mand. r-< *il-ay
- 686 Te. d-(<*d), Ku., Kw., Pe., Mand r-< *uz-
- 688 Te. d-(<*d), Kon., Ku., Kw., Pe., Mand r- < *uzu
- 689 Te. d-(<*d), Kon. d, Kw. r-<*uz-u
- 692 Te. d-(<*d), Go., Kol., (<Te.), Pa. (<Te.) d- < *uz-up-
- 694 Te. d-(<*d), Go., Kon., Kol. (<Te.), Ga. (<Te.)d-<*uz-uppi
- 695 Ku. d- < *uz-
- 698 Kw. r-< ur-ay < *ul-ay
- 718 Ku. r/r-?< *ur-um
- 757 Ku., Kw., Mand. r-< *ur-< *uz-
- 837 Ku. d-dimbu < edimbu < *elimpu
- 851 Go., Ku., Kw., Mand. d-< *ez-
- 910 Te. d-< *ez-
- 954 Te., Ku. d-< *ot-unk/ump-
- 1012 Pe., Mand. r- < *oz-ucc-
- 1041 Ku. d-< *ōţ-u

5.3 Metathesis and cluster simplification

The following entries have words beginning with retroflex consonants in modern Dravidian languages. These words correspond to Proto-Dravidian root syllable type $C_1V_1C_2-V_2$; where C_2 is fronted to word initial position through the operation of apical displacement rule and a subsequent cluster simplification rule (Krishnamurti, 1978:1-3): However, in the cognates given under 2402, 2404, 2583, 2584, 2613, 2698, and 2900, corresponding to PDr. cVt, cVz, cVl - and except for the corresponding forms in Konda (and sparingly in Kui, e.g. 2402), the word initial r-/d- must have derived through metathesis without the need for cluster simplification. Except for Konda all other languages viz. Te., Go., Ku., Kw., Pe., and Mand, have evidently been effected by the operation of $*c/s > \emptyset$ before the operation of apical displacement rule.

DEDR No. Language(s), Source:

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1527 Ka., Te., Go., Kon., Kw., Pa. d- < *kit-ika
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2404 Pe.
$$r - < har - < *caz/*cal -$$

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2942 Pe., Mand. d- < *an!-
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3585 Kw.
$$d-<*nda-<*nat-$$

3692 Ku.
$$d < *ndr - < *n\bar{i}|$$

5153 Pe., Mand., Ku., Kw.
$$r - < ?V$$
nd $< *yantu$

5432 Pe., Kw.
$$r - < v_{I} - < v_{I} - < v_{I}$$

5481 Kon.
$$r - \langle vr\bar{e} - \langle vent - vr\bar{e} \rangle$$

5495 Ku.
$$r-/d-(Kw. r-) < *vre < *vel-$$

5.4 Assimilation

In the following entries, modern Dravidian languages have words beginning with initial retroflex consonants which correspond to Proto-Dravidian non-retroflex plosives at word initial position of the root syllable type $C_1V_1C_2-V_2$. In all these instances the word medial consonant C_2 is a retroflex consonant (t, z, l, and n), and the word initial non-retroflex plosive C_1 (= k, c, t) has developed retrof-

lexion by assimilation to the following consonant, Most items in this set begin with a dental plosive which readily assimilates to the following retroflex segment. Only in three cognate groups i.e., 2658, 2698, and 2716 word initial retroflex plosive corresponds to Proto-Dravidian *c-. Etymologically, there is evidence to show that even in these items *c- alternates with *t- (cf. 2658 Tu. cuti 'aim', tund 'point at'; 2698 To. tuly 'to move in a circle', Ka. tozal 'to move round', tuzi/suzi 'to turn round/go round' Tu. tulipuni/sulipuni 'to shake, agitate to turn in a lathe'; 2716 Ka. done 'a small natural pond in rocks, a hole', Te.(B.) dona 'a pool on a hill'. Therefore, the presence of t alternants in these have fecilitated the assimilation. The third set consisting of five cognate groups present the most interesting aspect of assimilation which is unheard of elsewhere in Dravidian. Here the word initial retroflex d corresponds to Proto-Dravidian *k-. Word initial d in these instances are developed through an intermediary g (<*k) when it is immediately followed by an apical segment r.

DEDR No. Language(s), Source:

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1109 Ku. d-< dra-< gra-< *kat-a
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- 2952 Kur., Malt. t-< *tat-: cf. Nahali to-(<Kurku)
- 2956 Kol. t/t, Nk. t/k-, Nk. t/c < *titVr/kitVr
- 2957 Kur., Malt. t- < *tit-
- 2962 Ku. t-, Kw. t/d/d- < *tund-
- 2963 Go., Kon., Pe., Pa., Ga. d-: dundi < tunți : cf. Ha. dhundi
- 2967 Ku., Kw., $t < *t\bar{u}t -$
- 2968 Kur., Malt. t- < *tūt-
- 2969 Ku., Kw. d-< *tuntV cf. Ho tonto, Nahali donga [<(Kurku)]
- 2972 Ku. d-; Kw. t- < *tet-
- 2984 Go., Ku., Kw. t-; Mand. d- < *tot-
- 3020 Go., Kon., Ku., Malt. d-< *tat-
- 3031 Go., Kur., t-< *tat-
- 3036 Go., t/t-; Pe. t- < *tatti-: cf. Pkt. tatti
- 3038 Ku. d-< *tatt-
- 3040 Kw., Pe., Mand., Kur. t-< *tattV
- 3044 Go., Pa., Malt. d-< *dadd < *tattV
- 3048 Go. d/d-, Kon., Kw. (Su.) NK., Pa. d- <*tanta-
- 3052 Go. t/t-; Pa. t- < *tent-
- 3056 Ku. d- < *tant-
- 3118 Malt. t-< *taz-
- 3136 Go., Ku. t-<*talli/tali
- 3158 Kon. d-< *tāņţ-
- 3180 Kon. i- < tar < &taz
- 3198 Go., Kon., Kw. ⊢ < tāṇḍi < *tāṇṛi
- 3218 Pa. (S) t < *tit k -
- 3222 Ku. t/d, Kur. t- < tin-
- 3258 Kw. t-<*til/tin-imp-

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3263 Kon., t/t - < *tindi - < *tin
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3296 Go.
$$t/t-$$
; Ku. $t-<*tut-i$

3378 Go.
$$d-<*dudd/dud-(*tutt-/tut-$$

3395 Nk. (Ch.)
$$t - < t\bar{u}t < *t\bar{u} - t < *t\bar{u}$$

3450 Ga. (011.)
$$t - < tett < * ten-tt/tel-t$$

3489 Go.
$$d-<*tottV-$$

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3528 Ka. t-, Tu. t/d- Te. d Go. d/t-<*tol-
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3543 Go.
$$d/dh - < *tot-$$

3566 Pa.
$$t - < *?tot - < tott -$$

5.5 Syllable final nasal induces retroflexion

In the following entries, words beginning with retroflex plosives t and d may correspond to an earlier *t. At least for certain cognate groups under the entries 2938-2994, the etymological history is uncertain. The current and most widely accepted notions of Dravidian phonological theory preclude the possibility of reconstructing word initial retroflexes for common Dravidian. Therefore, cognate groups under the entries 2938 to 2994 in DEDR should be considered suspicious and therefore needs to be accounted for. A common feature shared by the entries grouped under this category is the presence of a nasal consonant (or at least one of the cognates have a nasal) in the syllable final position. Hence, it is proposed that for the following items the reconstructed Proto-Dravidian root syllable begins with a dental plosive and ends with a nasal consonant as in *tVN - (C(C)V). The reconstructed form partially conforms to Krishnamurti's observation that 'd seems to have arisen from*t before a preconsonantal nasal of the retroflex series'. Though, the -N- in the reconstructed form is not a nasal of the retroflex series, the data under consideration indicate that there seems to be a correlation between the presence of a nasal and the development of retroflexion. Now the question is how does a dental consonant in the environment of - VN exibit a tendency toward a retroflex articulation and what is its theoretical implication. It is inevitable that vowels in (C_N) are produced with certain amount of nasalization (nose coupling or nasal co-articulation) at least during their final phase of utterance (The degree of nasalization differs from language to language). In such a situation these vowels have slightly backed or centralized and lowered allophones (Van Reenen 1982: 101). In turn these vowels (with characteristic lowering of Formants) create an environment which favours the articulation of segments with the feature 'flatness' which results in retroflexion. (The feature 'flat' involves downward shifting in the frequency location of formants or spectral energy.) In terms of opposition d is more 'flat' and (also less spread) than d (Fant, 1973: 138, 186-190).

DEDR No. Language(s), Source:

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2940 Ma. t; Ka. t/d- < ?*tan-kVm
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2991 Kon., Kol.
$$d-<*tom-(p)v$$

3014 Te.
$$d-< tan-kV/takk-$$

3076 Ka.
$$d-< tam-ppV/tapp-$$

In the case of 3263 Kw. ti'ni, 'right hand' Emeneau (1987: 331) believes that it is a case of analogical spread of retroflexion from the borrowed Indo-Aryan word tebri 'left'.

3291 Kw.
$$d-< tun-cV$$

3449 Ka.
$$t - < ten-kV$$

3478 Ku. d- Kur.
$$t- < *ton-kV-$$

In the opinion of Krishnamurti (personal communication), at least in certain cognate groups of this category (e.g. 3452), probably the root syllable final nasal was a retroflex one but it got assimilated to the following consonant (Uma Maheshwar Rao, 1987: 69).

, 5.6 Onomatopoeic expressions

In the following words the occurrence of word initial retroflexion may be due to onomatopoeic phenomenon. All these words convey sounds as they are perceived by the speakers.

DEDR-No. Language(s), Source:

2944 Ta. t, Ka.
$$t/d/dh$$
, Tu. $t/d < *tan$

- 2949 Ta., Ma., Ko., Ka., Tu., Te., d/t- < *tam- cf. Skt. damaru
- 2951 Go., Kol., Pa., Ga., Kur. t- < *teva- : cf. Halbi, tēvasa

According to Bhaskara Rao (1980: 108) 'tev' is an onomatopoeic expression signifying the cry of a bird known by the name 'tevore' in Koneker Gadaba. Kittel's Kannada dictionary has words tiva 'name of a bird' and tivaka, 'sound produced on tambura, a stringed instrument', which may belong to this group.

5.7 Residue

The following items form a mixed set, as no patterning can be discerned in the development of word initial retroflexes. Some of these words seem to be borrowings from the neighbouring Indo-Aryan or Munda lan-

guages. Their genetic affinity is uncertain. These words form part of the common vocabulary shared by the languages of this region i.e. Central India. In many cases exact etymological information is lacking. The actual source of some of these words may be an extinct language. Language like Nahali in Central India allude to such a language group (cf. Kuiper, 1966).

DEDR No. Language(s), Source:

- 2938 Ta., Ka., Te. t < * takk -
- 2939 Go. d-; Te., Kol. d/d; Nk. dh-< ?*takku/ takku
- 2948 Go., Kon., Kol., Nk. t-< *tap-Vr cf. Skt. tarpara
- 2950 Go., Ku. d- < *dey-
- 2953 Go., Ku., Kw. t-?*tikuni
- 2955 Pe., Mand. d-< *tirink/trink
- 2959 Kw., Mand. t-< ?*til-
- 2960 Pe., Mand. d-<*di-
- 2961 Pe., Mand. d-: diba
- 2964 Ku. t- < *tup-
- 2970 Te., Kon., Nk., Ga. d-< *dekka
- 2971 Go., Kw., Kur. d-<* ti (n) k-< Pkt. dev, Or. deik
- 2975 Ku., Kw. d- < ?*ter-
- 2976 Ka., Te., Go., Ku., Kw., Nk., Nk. d-< *dokka
- 2977 Go., Kon., Ku., Kw., Kol., Pa., Ga. d- < ?*torkk-
- 2978 Go. !- < *tokV
- 2979 Go., Kol. d- < ?*tok-ar
- 2985 Go., Kol. d— < cf. IA *dundubha. Ga. dōndibāmu 'water snake', (bāmu 'snake') also see Mundari dundi water snake, eel', Ho. dundubing 'water

3000 Ka., Tu.
$$t/t-< tak-ar$$

3003 Ka.
$$t/t - < *tar-ak-/tan-kv-$$

The Kannada alternants taragasi/tagarise and Ka. and Te. tangedu indicate that the word had tar-/tan-root alternation at an early stage.

Forms under 5165 may belong to the etymological group 509 *ilanc/il-ank-.

- 5183 Kon., Pe. r-< *reto-
- 5184 Kon., Pe. r-< *ro-
- 5199 Ku., Kw. d-< *lump-
- 5201 Ku. d-< *lang-cf. Skt. langula

6.0 Conclusion

There are about 235 cognate groups involved in retroflexion. The most common mechanism contributing to the development of initial retroflexion is the assimilation of word initial dentals (sparingly velars) to a syllable final retroflex consonant. The next most common source of word initial retroflexion is the combined effect of metathesis and cluster simplication. The source of word initial retroflexion in the case of a considerable number of words listed in 5.5 is not clear yet.

The foregoing survey has shown that there are at least five different types of linguistic changes resulting in the origin of word initial retroflexion in modern Dravidian languages, they are:

- 1. Metathesis: medial retroflex consonants are fronted in 46 items.
- 2. Metathesis and Cluster simplication: medial retroflex consonants are fronted resulting in word initial clusters, which are later subjected to cluster simplification resulting in word initial retroflex consonants. It involved 32 items.
- 3. Assimilation: word initial non-retroflex consonant is assimilated to a following retroflex consonant. It involved 76 items.
 - 4. Syllable final nasal induces retroflexion of the word

initial dentals in 30 items.

- 5. Onomatopoeic phenomenon: the origin of retroflexion in a group of words is ascribed to sound imitation. About 9 items are identified.
- 6. A residual category: includes items exhibiting word initial retroflexes which cannot be explained by any authenticity. They are about 43 such items. It includes words of unknown etymology, probably borrowings and certain cases of sporadic changes.

Notes

This paper has benefitted greatly from the comments by Professor Bh. Krishnamurti, who has read it earlier. However, incorporation of several of his suggestions require a thorough reorgnization of this paper in future.

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SOUND CHANGE IN GONDI: A CASE FOR LEXICAL DIFFUSION

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Language change has been the cause of several intriguing questions and has been the source of a very interesting study in the descipline of linguistics. Quite many researches have been conducted to explain the variations caused by sound changes in languages. For that matter, earliest studies in the "Science of language" were attributed to 'sound change' resulting in language change. Sound change, as has been viewed by the earlier linguists, is one of the principle changes that takes place in a language, whose directionality is yet to be positively determined. The way in which a language is spoken, varies over the years and is a result of sound and structural changes. The universality of language presupposes the operation of several sound changes which has resulted in the present day distancing of human languages, which however is reconstructable to a proto-state using the methods of internal reconstruction. There have been various approaches to study the sound changes in human languages which can be summed up as follows:

- 1. Neogrammarian approach.
- 2. Structuralist approach.
- 3. Generativist approach.
- 4. Lexical diffusionist approach.

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The presuppositions of these different approaches can be listed as follows in a nut shell.

Neogrammarian approach:

- 1. Sound is the basic unit.
- 2. Sound changes are phonetically gradual.
- 3. Sound changes are lexically gradual.
- 4. Changes operate mechanically.
- 5. Exceptions to the sound change are due to borrowing and analogy.

Structuralist approach:

- 1. Sound changes are regular.
- 2. Sound change is due to change in phonemes.
- 3. Sound changes are gradual.
- 4. Sound changes are prone to temporal limits and exceptions are due to analogy and borrowing.

Generativists approach:

- 1. Phonological changes are due to changes in the grammar of the languages.
- 2. Phonological changes are abrupt.
- 3. The exceptions, to a change are attributed to 'minus rules' and 'minor rules'.

Luxical diffusionist approach:

- 1. Sound change is lexically gradual.
- 2. Sound change is phonetically abrupt.

3. Exceptions, due to the 'leaders' and 'laggers' in the process of sound change, are the result of the speed at which the change operates.

For the present study, a sound change in Gondi is taken up and is analysed employing the lexical diffusionist model. One of the important sound changes of Gondi, which has resulted in the dialect differentiation, is that of proto-Dravidian *!. The reflexes of the pre-Gondi *! in the present day Gondi speech variety are predominantly in r but also in r and l.

The present study is limited to viewing the sound change of the proto-Dravidian lateral retroflex *l, which at the proto-South Central Dravidian stage occurs in all the positions i.e. initially, post vocalically and finally, as a result of apical displacement. In all the languages of this sub-Group (Telugu, Gondi, Konda, Kui, Kuvi, Pengo and Manda) the change in to l, r and r is observed. In Telugu the change is uniformly to l.

In modern Gondi this particular sound change forms as isogloss for the major dialect division which seperates the different varieties of the language spoken.

The lexical items taken for the present study are listed below, which have correspondences of Proto-Dravidian retroflex *!

* lay	young'
* !oc	to bale out water'
*lon	house'
*!op	in, inside'
*len	to get loose

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*eļz	'bear'
*vel-ci	'bright, light'
*aļ	'wife'
*kaḷ-v	'threshing floor'
*val-v	'wind'
*ceļ -al	'sister'
*por-a!	'mother-in-law'
*nal-v	'tomorrow'
*kallu	'toddy'
*ulli	'onion'
*puḷḷa	'sour'
*piḷḷa	'young one of animal'
*kalle	'thief'

The nature of operation of the sound change of pre-Gondi *1, has to be studied seperately in the various dialects of the Gondi, the area of which extends from Seoni in the North to Adilabad in the West, to Khammam in the South and Bastar in the East. The reflexes in the different positions of the occurrence of pre-Gondi *1, in Adilabad (West) and Seoni (North) are studied as they are relevant to the present analysis.

Given below are the reflexes of the occurrences of pre-Gondi *! in the initial, medial and word final positions in the dialects of Adilabad and Seoni. Given also are the reflexes of the geminate occurances of the pre-Gondi *!l.

Pre- Gondi	A dilabad		SEONI	
	West	Sirpur	South	North
Pre- Gondi	A dilabad		SEONI	
	West	Sirpur	South	North
Initial				
* ley – young	ŗ	l	r	r
* <i>lon</i> – house	r	l	r	r
* lop - inside in	r	l	r	r
* loc – to baleout	r	1	r	r
* len - to get lose	r	1	r	r
Medial				
* elz – bear	<u>r</u>	ŗ	ŗ	r
* velci - light bright	ŗ	<u>r</u>	ŗ	r
* nali – tommorrow	<u>r</u>	ŗ	\dot{r}	r
* kala - threshing floor	ŗ	ŗ	ŗ	r
* vali – wind	ŗ	ŗ	ŗ	r
Final				
* <i>a</i> ! – wife	ŗ	r	r	r
* cela! - sister	ŗ	ŗ	r	r
* poral - mother-in-law	Ţ	ŗ	r	r
Geminate				
* kallu – toddy	И	11	ll	ll
* ulli - onion	ll	ll	11	11
* pilla – young one	Ш	11	II	11
* kalle - thief	U	11	11	11
* pulla – sour	Ш	11	11	11

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Adilabad: The initial occurrence of *!, whose reflexes are r and l, appears evidently to split the Gondi dialects with specific geographic boundaries – Western (Adilabad, Yeotmal, Betul, Chindwada, and Mandla) and the other areas. In the Adilabad variety a seeming exception occurs in riy—'the young one' which needs explanations. At this stage, leaving out the exception, one can postulate sound change as:

$$*! > r / # -$$

The change in the Sirpur and Aihiri, area in the initial occurrance is different from what has been postulated. The retroflexion is dropped and the realisation of Pre-Gondi *!, in this area has reflexes in l. Thus we have to formulate yet another independant change.

$$*l > l / # -$$

These two changes have specific area boundaries and thus can be said to have operated independently and thus chronological operation does not have any bearing to the sound change.

The sound change in the post-vocalic positions (medial and final) of Pre-Gondi *! has reflexes uniformly in r. The change can be thus formulated as

*
$$l > r / V - \int_{\nu}^{c}$$

but conditioned, tha C is not * !.

The geminate occurrences of Pre-Gondi *! ! have had the sound change of deretroflexgion to ! !, the occurrence of which is limited to the post vocalic positions.

*
$$l l > l l / V - V$$

(- long)

SEONI: In Seoni District, this sound change seperates North Seoni from South Seoni. The change in the initial position is uniform and the reflexes are shown as r, which helps us to postulate the change as

*
$$l > r / \# -$$

The word final occurences of pre-Gondi *l, have also the reflexes in r,

$$*l > r / - #$$

One could formulate a common rule for the sound change for both initial and final occurrences of pre-Gondi *! as

$$*! > r / - {\# - \atop -\#}$$

The variation in the nature of the sound change which leads to a dialect demarcation is apparent in the medial position, wherein the speech variety of North Seoni shows reflexes in r and the South Seoni variety has r.

The changes thus can be formulized as

1. *
$$l > r / \nu -$$

2. *! >
$$r / \nu -$$

The geminate occurrences of pre-Gondi *l l have reflexes in the present day speech variety of Seoni (North & South) in l l which can be postulated as

On studying the nature of operation of the sound change in different geographical areas and in different positions of occurrences, the following changes are observed.

Initial position:

Adilabad (West) :
$$*l > r / \# -$$

$$(exception of riy -)$$
Adilabad (Sirpur) : $*l > l / \# -$
Seoni : $*l > r / \# -$

Post-vocalic position:

Adilabad : *
$$l > r / v -$$

Seoni (North) : * $l > r / v -$
Seoni (South) : * $l > r / v -$

Word final position:

Adilabad: *
$$l > r / -#$$

Seoni: : * $l > r / -#$

Geminate occurrence:

Looking at these changes one could tabulate the reflexes of the pre-Gondi *1 as follows:

	ADILABAD		SEONI	
	West	Sirpur	South	North
Initial	r(r)	l	r	r
Medial	ŗ	ŗ	r	r
Final	ŗ	ŗ	r	r

For a better explanation of the sound change and the areal drift, a collapsed sound change of the following type is necessary.

*
$$l > r > r$$

The geminate occurrences of pre-Gondi * l l which uniformly changes to l l, are the result of deretroflexion.

It can now be explained that the change has had its operations to the fullest in the North Seoni dialect where the reflexes of Pre-Gondi *l are realised as /r / throughout.

The scene in Adilabad region is a bit complicated in the sense that the change in the initial occurrences of pre-Gondi *! have been subjected to two independent changes.

- 1. *l > r > r in Adilabad (West)
- 2. *l > l in Adilabad (Sirpur)

The change in Sirpur area in the intial position is complete and thus has no residue, but the change*l > r > r in Adilabad (West) has ceased to operate fully and hence the residue in /riy-/ 'young one', which needs explanation.

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In the medial and final occurrences of Pre-Gondi *! in Adilabad, the change has stopped after the operation of the first stage i.e. * l > r and thus has reflexes in /r/.

The drift of the sound change can be claimed as being North to South. The change, owing to the extent of its operation, can be stated to have started in the Northern dialects of Gondi and then spread south-wards. This is reinforced by the fact that the land of the Gonds, "Gondwana" was situated in South Central India of which Seoni is a part.

The manner of operation of this change can best be explained using the lexical diffusion approach to sound change. The 'leaders' to the sound change in Seoni can be said to be the words with initial and final occurrences of Pre-Gondi *!, which have reflexes in the present day speech in /r/. But the medial occurrences in South Seoni are relatively 'laggers' and as a result have not undergone the change to the full.

Same can be said of the nature of the sound change in Adilabad. One stricking obvious exception to the change *! > r > r in the initial position in Adilabad can only be explained through the operation of the change through lexical diffusion. The lexical item /riy—/ 'young one' has not undergone the change to the expected /riy/. This is not due to borrowing or analogy, as it is very much a native lexical item and other lexical items meeting the requisites of the change have been affected completely. Hence, the only logical explanation is that this particular lexical item did not undergo the second stage of the change. It may be recalled here that /riy—/ occurs in lexical items such as /riy = riv =

human, whereas all other lexical items which have undergone the change refer to non-human.

The lexical diffusion in the operation of a sound change has three stages in its course.

- 1. Pre-change stage.
- 2. Variant stage.
- 3. Post change stage.

For a sound to change from its original pronunciation to an innovative pronunciation a stage when both the forms are in vogue (synchronic variation) is necessary and an innovative form gains entry into the languages when the speakers drop the original form and accept the innovative form of pronunciation.

Could it then be said that the 'tapering factor' acted to halt the sound change to /riy—/ half way through. Whatever be the reason, the fact remains that the sound change did peter out after the operations of the change *l > r, which can be the result only of a situation where the variant forms were not available for the progress of the change, which is a necessity in the operation of a sound change in the lexical diffusion approach. Thus the exception-less, mechanical operation of sound changes cannot explain this situation. The lexical diffusion theory of sound change, on the other hand, gives a logical and satisfactory explanation to the change and its residue.

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REVIEW ARTICLE

PRIMARY EFFORT AND QUANTITY: AN EXPERIMENTAL VERIFICATION

(by S.R. Savithri, All India Institute of Speech and Hearng. Manasa Gangothri, Mysore-6. Doctoral dissertation submitted to the University of Mysore: 1985)

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The link between ancient Indian and modern western schools of linguistics is said to be closer in phonetics than in grammar (Allen, 1953). The phonetic observations of Indian grammarians have been critically examined in the light of modern linguistic theories (see for eg. Ananthanarayana, 1986; Cardona, 1988; Misra, 1966; Varma, 1961) and their relevance to research in theoretical linguistics in the Indian context has been pointed out recently (Ananthanarayana, 1988). The work under review attempts to verify two phonetic concepts from ancient India, viz., "primary effort" and "quantity", using modern techniques of instrumental phonetics.

The main impetus for this work was reportedly derived from an earlier study by the same author (Savithri, 1979) entitled "Speech and Hearing science in ancient India: A review of Sanskrit literature" which was subsequently published in Savithri (1988). Applications of the knowledge of Sanskrit literature in medical fields like rhinoplasty and the quest for exploration of possible clinical relevance of variables like "quantity" provided further motivation. Most of the earlier critiques of Paninian treatises were undertaken

primarily in the context of describing the grammar of another language. The work under review on the other hand, attempts to explore the possible applications of the phonetic concepts themselves by subjecting them to experimental verifications, and hence merits a critical examination.

At face value, the work is very thorough and is based on over thirty śiksās and prātiśākhyās. More than seventy sutras were referred to in the text and the original sūtrās were quoted at the end, making the main text very readable. The coverage of the western literature pertaining to the subject under study is also quite exhaustive. The instrumental phonetic technique employed was spectrography and the analyses were based on a total of 3370 spectrograms of which, a representative sample was included in one of the appendices to the dissertation. Before reviewing the main work, for the sake of completeness, it is instructive to provide a brief exposition of the terms, "primary effort" and "quantity".

The term "primary effort" which subsumes the categories, internal effort (ābhyantara prayatna) and external effort (bāhya prayatna) refers to various inspiratory/expiratory forces and articulatory and resonatory processes involved in speech production. The term "quantity" refers to duration of a segment expressed in "mātrās" where one mātrā equals the time taken for a snap of a finger or an eye blink. The theory of speech production espoused in Pānīniya siksā and subsequent prātisākhyās recognizes, among other things, the following variables as important in the production of speech sounds: degree of tongue height, extent of mouth opening, area of constriction between the articulator and place of articulation (subsumed under the term internal effort) the state of glottis, type and quality of sound source,

amount of air utilized during speech production (subsumed under the term external effort): pitch and duration of the vowels (quantity). Thus, the internal efforts involved in the production of vowels for instance, were described as asprsta (no contact) or vivrta (mouth open), the external efforts as, nāda, ghōsa, samvāra and alpaprāna (voiced sounds produced where in the breath stream is modified at the level of glottis which is in a contracted state and relatively less amount of air is utilized resulting in little or no aspiration). The other external efforts pertaining to pitch/accent of the vowels were described as udatta (high pitch or acute accent): anudatta (low pitch or grave accent) and svarita (high-low pitch or circumflex accent). In contrast, the internal efforts involved in the production of plosives, affricates and nasals (sparsās) have been termed as sprsta (complete contact) and the external efforts involved in the production of voiceless aspirated stop consonants for instance were described as: śvāsa, aghosa, vivāra and mahāprāņa (vioceless hissing sound unmodified at the level of glottis which is fully open and relatively large amount of air is utilized resulting in aspiration). Turning to the construct, quantity, consonants in isolation were thought to have a duration eqvivalent to that of 1/2 matra; that of individual consonants occuring in gemination as 1/4 matra; a short vowel (hrasva) has a duration of one mātrā whereas, a long vowel (dīrgha), a fricative consonant and a diphthong were said to have a duration of two matras each. The duration of extra long (plūta) or prolated vowels such as those which occur in the final syllable of an utterance were said to have three matras.

In order to translate these concepts into variables which are amenable for spectrographic analysis, the investigator undertook a thorough review of acoustic phonetic literature from 1930's up until early 80's (mainly

western literature, although data based on one or two Indian language studies were also included). It was established empirically that the duration of one matra should be 85 m. sec. Drawing mainly from Fant (1960) and Potter, Kopp and Green (1947), several hypotheses were formulated and tested. For instance, to test the validity of the construct, "internal effort" as it relates to the tongue height dimension, the following hypothesis was used;

HI: F2/a/ < F2/ai/ < F2/e/ < F2/i/similarly, F2/au/ < F2/o/ < F2/u/

The rationale behind HI is the well established acoustic phonetic fact (**Fant**, 1960) that the second formant of a vowel (F2) decreases as the degree of mouth opening (tongue lowering) and depression of the lower jaw (mandible) increases. The mouth being wide open in the case of/a/ or /au/ as opposed to i/ or i/ and hence the F2 of i/ or i/ au/ would be higher than the latter sounds.

Based on the relationship between the degree of increase/decrease in constriction area in the front part of the oral cavity in the production of consonants and the first and second formant frequencies of vowels following or preceding those consonants (Fant, 1960) three more hypotheses were formulated to test the validity of internal effort. For the purposes of brevity, these hypotheses will not be discussed in this review.

The hypotheses used to test the validity of "external effort" concerned with the state of the glottis and the amount of air utilized in sound production are:

H2: The speech sounds which have the effort "nāda" should have voice bars on the spectrograms, whereas,

those with "svasa" effort should display "gaps" on the spectrograms.

- H3: The specch sounds which have the effort "alpaprāṇa" should display fewer "fills" (irregular vertical striations which result from frictional modula tion of the airstream) on the spectrogram than those which have an effort "mahāprāṇa". The three main hypotheses used to test the construct "quantity" were:
- H4: The duration of the long vowels should be twice that of short vowels.
- H5: The duration of all stops, affricates and nasals and semivowels should be half a mātrā.
- H6: The duration of fricatives should be equal to that of a long vowel or two mātrās.

These hypotheses were tested out empirically, using ten subjects (five males and five females) who are proficient speakers of Sanskrit. The subject's task consisted of reading 109 meaningful declarative sentences each of 3- words in length. The words themselves were chosen carefully so that all the test consonants occured in inter-vocalic position (e.g. aka, āka, akha; ika, uka, ukha etc) with the exception of /ch/ and /dh/ which also occured in word initial position in Sanskrit. From the original set of forty sentences, 109 final test sentences were generated by changing the word order, which is said to be flexible in this language (but, see Ananthanarayana, 1986). For each subject, 109 linear, wide-band spectrograms and 228 narrow-band spectrograms were obtained on a sound spectrograph (Voice identification, series 700). A total of 3370 spectograms were made for all ten subjects. The measurements were made only on the first word in each sentence.

The formant frequency measurements and examination of spectrograms for presence/absence of voice bars, gaps

and fills revealed that all the hypotheses pertaining to the internal and external efforts should be accepted. For instance, the following results (in Hertz or HZ) were noted in relation to H1:

$$\begin{bmatrix} F_2/a/ \\ 1298 \end{bmatrix} < \begin{bmatrix} F_2/ai/ \\ 1460 \end{bmatrix} < \begin{bmatrix} F_1/e/ \\ 2553.5 \end{bmatrix} < \begin{bmatrix} F_2/i/ \\ 2671.5 \end{bmatrix}$$
 and $\begin{bmatrix} F_2/au/ \\ 883 \end{bmatrix} < \begin{bmatrix} F_2/o/ \\ 938.5 \end{bmatrix}$

The F2of/u/was 877.5 Hz, which is not higher than F2of/au/or/o/as hypothesized.

Similarly, all the vowels and semivowels exhibited voice bars on their spectrograms, but none of the voiceless consonants did. Both voiceless and voiced unaspirated consonants had fewer fills compared to their aspirated counterparts. With regard to the variable, quantity, only the first hypothesis (see H4above) was accepted. Hypotheses H5 and H6 had to be rejected because the duration of all sparsas (stops, affricate and nasals) and semivowels was not equal to half a matra (42.5 m. sec), nor was the duration of all fricatives equal to two matras (180 m. sec). Significant durational differences were reportedly noted among sparsas, semivowels and fricatives.

Based on these results, the investigator concluded (on p. 140) that the theories of Sanskrit grammarians with respect to primary effort were valid and so is the theory of relative vowel duration. But, the theories regarding the duration of sparsas, fricatives and semivowels were not found to be valid from the data obtained. The investigator opined that the ancient Indian grammarians' concept of duration is not physical in the same sense as tested in this study.

While the results pertaining to primary effort are stright

forward and need no further comment her conclusions pertaining to the variable "quantity" needs further scrutiny. For a more recent discussion of this investigator's views on timing in speech (which once again draws on Sanskrit literature) the reader is referred to Savithri (1989). The differences in the conceptualization of the term, "quantity" or duration between the ancient Indian phoneticians and modern day phoneticians have long been recognized. For instance, Varma (1961) in his cogent discussion on syllable quantity commented that the basis for syllabic quantity is phonetic and not orthographic in that, ancient Indian grammarians referred to the actual duration of audition of a segment when it is pronounced and neglected for all practical purposes, the onglide and partly the contact stage of a plosive consonant. It was pointed out further that quantity often modifies syllabic division of words without necessarily effecting a break in the chain of connected speech.

Even in the western literature, it has been pointed out (Lindblom and Rapp, 1973 cited in Fowler, 1977) that measured duration of a given acoustic segment varies as a function of its location in a syllable, word or phrase such that segments are shortened by preceding and following intra-syllabic segments; syllables are shortened by preceding and following intra-word syllables and stressed words are shotened by preceding and following stressed words in a phrase. There has been a great deal of discussion on the phenomenon of closed syllable vowel shortening (CSVS) which is said to be consistent with the view that the rhyme of a syllable is a unit of organization in speech production (see Maddieson, 1985). More recently, Fant, Kruckenberg and Nord (1991) reported durational reduction as a function of word class. Specifically, adjectives and nouns were shown to retain 75% of their isolated reference duration when

followed by verbs, adverbs, pronouns, prepositions, conjunctions down to the extreme of articles which retain only 21% of their isolated mode duration.

The relevance of the above cited research findings to the topic under discussion is that the construct "quantity" which translates as "duration" of speech sounds is meaningful only in relation to the type of syllable (closed/open, stressed/ unstressed), grammatical category of the word in which the target syllable occurs, phonetic or pheonological context preceding and following the target syllable and so on. Against this back ground, if we now look at hypotheses H5 and H6 pertaining to the quantity of consonants, they seem too general to permit significant generalizations, for they do not specify the environment in which the target vowel/ consonant is going to be measured. Commenting on the procedure used in making durational measurements in this study, the investigator stated on pp. 77-78, " only the vowel sparśā / semivowel / fricative duration in the first syllable of the first word of each sentence was measured ".The vowel duration was defined as the time between the onset and cessation of glottal vibration (i.e. VCV context). In the case of / ch / and / dh / which occurred in word initial position, the durational measurement was in CV context.

The result that significant differences were noted among the durations of sparsas as well as fricatives can be attributed to the fact that the syllable structure was not treated as a variable in this study. To eloborate this point, it is pertinent to go over the below mentioned partial list of rules for syllabification of Sanskrit words discussed in Varma (1961):

- 1. A consonant followed by a vowel, whether the consonant is initial or intervocalic will go with the succeding vowel. Thus, $d\bar{a}na = d\bar{a}/na$; $im\bar{a}n = i/m\bar{a}n$.
- 2. For consonantal groups (clusters), the general rule is that the first member of the consonant group will belong to the preceding vowel (e.g. mukta gets divided as muk/ta). A more specific tule pertaining to plosive plus [r] is that the first member of a consonant group, if preceded by a vowel is doubled, thus the syllabic division for "putram" is putt/ram or put/tram, but never pu/tram (see p. 63 for a detailed discussion).
- 3. In consonant + semivowel group, the consonant goes with the succeding syllable (e.g. $adhy\bar{a}vasa = a/dhy\bar{a}/va/sa$), but when a semivowel follows another semivowel as in "navya", the syllable division is nav/vya.

Even though most of the words in the test sentences were said to be trisyllabic, my own analysis of the first words of the forty sentence listed in Appendix - 3 (on p. A3.6), according to Varma's rules for syllabification mentioned above showed that there are eighteen disyllabic words, twenty one trisyllabic words and one tetra syllabic word. In thirty seven of the forty words, single vowel constituted the first syllable. Among the second syllables containing both consonants and vowels, there are seventeen closed syllables and twenty three open syllables. The durational measurements in the present study were not based on syllable structure, they pertain instead to either VC or CVC segments.

The point to be noted here is that the quantity of "ch" in the word *chātraḥ* for instance, syllabified as *chāt/raḥ* (resulting in a closed syllable according to rule 2 above) would be different from that in a word like *chalayati*

syllabified as *cha/la/ya/ti* (as per rule 1 above; *ch* is an open syllable in this case). For the same reason the consonant /j/ in word pairs "ojati" and "ajayyah" is not comparable because in the first word it occurs in an open syllable, whereas, in the second word, it occurs in a closed syllable. The consonant /d/ in words "aidamparyam" and "audaki" is likely to have different degrees of quantity because of the difference in number of syllables following the target sound. Similarly, unless all the words in which the target consonant is occuring belong to the same grammatical class, quaninty differences are bound to be present.

The above discussion points clearly that when quantity is treated as an independent variable, the test words have to be matched according to a number of variables like syllable structure, grammatical class etc. It must however be noted that the results of the present study pertaining to durational information are indeed valid, but they refer to CV or VC(V) segments and not syllables in every case. Since much discussion on quantity, both in the ancient phonetic discrpitions and modern day metrics refer to syllable, it would have been interesting to see results of the study discussed in relation to syllabic length segments. Despite the many problems associated with the concept "syllable", this analysis is suggested only as an alternative approach that should be tried out before reaching the conclusion that "quantity" of consonants, in view of the differences in definitions, can not be verified experimentally using modern methods of instrumental phonetics. Such a conclusion may preclude further discussions on clinical utility of these constructs.

Finally, the investigator chose to use the term "sparsas" in place of the more commonly used western terms like stops, affricates and nasals, obviously for reasons of economy, and

yet, the other consonant groups were reffered to as fricatives, semivowels etc, This mixing of labels especially in the main hypotheses of the study could have been avoided. Alternatively, reasons for this choice could have been offered sufficiently early in the dissertation to draw reader's attention to this fact.

These comments are in no way intended to undermine the importance of the rich data presented in the thirty five different tables in this dissertation. Several suggestions have been made by the investigator for further study in this area, which have implications for both Linguistics and Speech and Hearing sciences.

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