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The Phonetic Structure of Somali.

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This material is obviously incomplete but is published now in the hope that students of Somali, and all those interested in establishing an orthography for Somali, may find that it throws some light on their special difficulties.

The work is the result of an analysis of the pronunciation of two Somali natives, Mr. Isman Dubet of Adadleh, about 25 miles northeast of Hargeisa, and Mr. Haji Farah of Berbera. During the course of this analysis no reference at all was made to the work of those who have written on the pronunciation of Somali. It was not until my work was finished that I consulted Dr. v. Tiling's phonetic introduction to her Somali Texts. My analysis agrees in the main with that of the sounds she describes there — the plosives and the three fricatives ', \hbar and h.

The vowel system of Somali is a baffling one. It is difficult in itself, because of the number and nature of its sounds, and it is complicated by the presence of vowel harmony the influence of which should be studied by all those who aspire to speak Somali as a Somali does. This vowel harmony operates not only within words but throws its influence forward and backward into neighbouring words. In this article vowel harmony forms are shown only in the section on Vowel Harmony and in the connected texts. Another disturbing influence on the vowel system is that exerted by certain consonants, particularly those with pharyngal and glottal elements. The strongest of these are 'and \hbar ; others with less power are d, q, ', r and h. These

influences1) make the task of deciding the number and nature of the

vowel phonemes of Somali extremely difficult.

Somali has a rich and varied consonant system; and the fact that many of its sounds have important positional variants suggests an even greater number of essential consonants than actually occurs.

Length of both consonant and vowel sounds is important and often

significant.

Is Somali a tone language? It is certain that word-tone is immensely important - much more so than stress - and in many cases significant. In the case of my two subjects it is a mistake to attribute this significance to stress; to say, for example, that the difference between 'inan2) (son) and 'inan (daughter) lies in the fact that in the former the stress is on the first syllable, and in the latter on the second. The stress is certainly on the first syllable of 'inan (son); but the important thing is that the pitch of this syllable is fairly high and that of the second syllable relatively low. In 'inan (daughter) the pitch of both syllables is practically mid-level, and the stress of the two syllables about the same³). The main difference between the pronunciation of gees (side) and gèes2) (horn) is that the pitch of the latter falls while that of the former is level or slightly rising. The modifications which word-tones undergo in connected speech through position and the interplay of one tone upon another must be subjected to a thorough investigation. It may be found on further research that these modifications are governed, as in regular tone languages, by very definite principles, or that they are too irregular to classify.

The Somali language contains 31 phonemes (exclusive of diphthongs),

which may be represented by the following letters4):

Consonants.

b, t, d, d, k, g, q, ' Plosives: Affricate: Nasals: m, nLateral: Rolled:

Fricatives: $j, s, f, x, \hbar, ', h$

Vowel glides: w, y

1) See also pp. 156, 157 for influence of the vowel glides y and w.

Pure Vowels.

Front
$$\begin{cases} i, \text{ short and long} \\ e, \text{ short and long} \\ \varepsilon, \text{ short and long} \\ x, \text{ short and long} \end{cases}$$
Back
$$\begin{cases} a, \text{ short and long} \\ o, \text{ short and long} \\ u, \text{ short and long} \\ v, \text{ short and long} \end{cases}$$
Central
$$\begin{cases} x, \text{ short and long} \\ y, \text{ short and long} \\ v, \text{ short and long} \end{cases}$$

Long vowels are indicated by double letters: ii, aa, etc.

Alternative vowel letters for Orthography.

ae may be used in orthography as an alternative to æ, and aae as an alternative to aa, the e in such groups being a convention to indicate a closer and more advanced vowel than a.

e may be used in orthography to represent the vowel e (not a common sound), thus reserving the familiar letter e for the very common sound represented in this article by ε .

oe may be used as an alternative to æ, and ooe to ææ, the e in such groups indicating closeness and fronting.

ue may be used as an alternative to y, and uue to yy, the e indicating closeness and fronting.

Special Capital letters for Orthography.

D for capital d Σ ,, ,, \int Ħ ,, ,, ħ

Diphthongs. ey, ay, aaw, aw, œw.

Details and Examples of the Sounds. CONSONANTS.

Consonant Table.

	Bilabial	Labio-dental	Dental	Alveolar	Post-alveolar	Palato-alveolar	Palatal	Velar	Uvular	Pharyngal	Glottal
Plosive Affricate	b		t d		d	j		kg	q		,
Nasal Lateral	m			n							
Rolled				r						ħ°	h
Fricative Vowel Glide	w	f		8			y	$\begin{pmatrix} x \\ (w) \end{pmatrix}$		n	16

²⁾ The marks, ' and ', are tone marks. At the same time they show strong stress. For an explanation of their use in this article, see pp. 139-140; 147-8.

³⁾ Nor is the difference in meaning between the two words to be accounted for by a difference in the length of the vowel of the second syllable. There may be a slight difference which is negligible.

⁴⁾ Note. The system of transcription used in this article is that of the International Institute of African Languages and Cultures, supplemented by q and 'and the international phonetic letters h, æ, æ, y. Other international phonetic signs are occasionally used to facilitate explanations.

I. Plosives.

b. b has not much voice initially¹). In a number of kymograph tracings made by Haji Farah, no voice at all is recorded initially. His initial b is therefore like a weak unaspirated p:

bal but bóqor king, scarf
bàal feather bad sea
bad half basal onion

The following subsidiary members of the phoneme occur and may all be represented by b:

(1) A weak kind of p with no release before t, k, f, etc.:

dábka the fire

húbka the weapons (general term) gébta the respectable person

(2) Voiceless (or with slight voicing) and with no release; or p'
 (i. e. p with glottal closure and release), finally²):

gybburnlaabchest (body)gœbrespectable personlàabbend, foldqabvainròobrainsaboutcast

(3) Often β when single between vowels, especially after a stressed syllable. Isman Dubet was much more inclined to use β than Haji Farah who generally used voiced b:

lába two díbī ox dában cheek

Double b also occurs between vowels. This does not sound fully voiced, but tracings made by Haji Farah show full voicing:

gábbal twilight dabbàal direct (of cattle)
habban straight, good 'abbaan protector
dabbaal swimming an 'ábbo let me drink

t. t is dental (not interdental) and rather strongly aspirated. The phoneme does not occur finally:

toll clan
tùf spit
tùt shower
tiqi she said
tæg valley
'œœgta the beacon
tag go away
hórta the beginning, front

d. d is dental (not interdental). There is not much voice initially; often none at all:

dæxf eye diseasedùyg rub (oil) indæxs shopdùig cockdyl nostrildœæg green grassdil kill, beatdæxl fatigue

1) Isman Dubet's initial b, d, g, q are more voiced than Haji Farah's.
2) Haji Farah generally pronounced the sound with no release; often with glottal closure. Isman Dubet generally used p'.

The following subsidiary members of the phoneme occur and may all be represented by d:

(1) A weak kind of t with no release before k:

fúudka the soup dádka the people qùudka the food gèedka the tree

(2) Voiceless (or with slight voicing) and with no release; or t with glottal closure and release, finally¹):

dàad running water qod dig
after heavy rain 'od voice
rææd footmark fææd top part of
làad kick forehead
qàad lift bad sea

(3) Often δ when single between vowels, especially after a stressed syllable. Isman Dubet used δ fairly frequently; Haji Farah only in a few words (e. g. 'iðan [vessel for incense-burning], 'εεδὰαπ [call to prayer]):

bádag goose

dádab screen

'ádæw enemy

dεετάda the gazelle

habaſida Abyssinian

magaaláda the city

dabooláda the covers

múda' fork

'ádag firm (of things)

Double d also occurs between vowels. This does not sound fully voiced, but there is probably often weak voicing throughout²):

sáddeh three

siddèed eight

addaan white

bádda the sea

féædda the top part of

the forehead

caddoon slave (f.)

riddu the action of

throwing a spear

qúdde large wooden spoon

sóddog father-in-law

soddoh mother-in-law

d. The symbol d represents in Somali a sound which is very different from ordinary retroflex d. In the first place it is not really retroflex at all, but generally post-alveolar, and in place of articulation thus resembles the "supradental" sound of rd of Swedish ord (word), hard (hard), and also the "retroflex" or "cerebral" d of northern Indian languages which, in reality, is made just behind the alveolar ridge. (The symbol d is, by the way, a symbol of the Swedish Dialect Alphabet, and is there used to represent the sound of rd.) The Somali sound is not so easy as this. The occlusion is voiced initially. The sound is produced with the same pharyngal contraction and the same raising of the larynx as is necessary in the articulation of 'and \hbar .

¹⁾ Haji Farah generally pronounced the sound with no release. Isman Dubet generally used ejective t'.

²⁾ I have a tracing of the word soddoh (mother-in-law) made by Haji Farah which shows the d's to be entirely without voice.

If this contraction is relaxed and the larynx moved down again at the same time as the tip of the tongue is removed from the back of the teeth ridge, there is a momentary rushing in of air giving the sound an implosive quality. This quality was often very noticeable in Haji Farah's pronunciation when the sound occurred initially, and in a number of kymograph tracings he made it is clearly indicated. As it was not always evident, it is perhaps unessential; though it was interesting to note that Haji Farah always accepted from me an initial d made with this implosive quality.

Examples:

daar oath dab truth diig blood deh say dùub point, make sharp didid sweat da' rob, fall dann direction dab'àal miser dòol big cloud da'an felled tree for dul earth barring entrance to dèer tall enclosure dùyg dip fingers in butter or milk and suck or lick them

The following subsidiary members occur and may all be represented by d:

1) A weak kind of t with no release before k:

bádka the half dídka the cancerous wound nàadka the leather bucket (for watering cattle) badàadka the happiness, the joy

2) Voiceless (or with slight voicing) and with no release; or t' with glottal closure and release, finally¹):

ħàwd thin stickfèεd comb, blow with clenched fistbad halffεεdad blows with clenched fistħid fastenmid fruit (one)gèæd reachyèεd callgææd he reached (short form)wad dry, open out (to dry)fad hollow outgabad daughterfɛɛd ribjiid lean (meat)

3) Fully voiced t (flapped t) when single between vowels. For this the tip of the tongue is raised to a point just behind the teeth-ridge and, without touching at this point, is *immediately* lowered, the under part of the tip striking the teeth-ridge in its descent:

tídi she said dádab dream 'idi I said badàad happiness, joy géædey I reached fallaado arrows yéeday I called ħέεdo Somali wooden dish gaadi carriage balladan wide feedo ribs hadimo dinner qadoon bark of tree hádaw laggard (camel) mido plural of mid ninka haday the man remaining rágga haday the men remaining Double d, fully voiced, also occurs between vowels and may be represented by dd: gææddey1) she reached mέεsa hadday the part remaining náagta hadday the woman remaining báadday she searched wækhda hadday the quarter remaining gabádda the girl féedda the rib daddaab big stone fáddi sitting dáddan taste, flavour k. Aspirated rather strongly. The phoneme does not occur finally: kol time, once kal year kiif bag, (draw top) kàal one who gives marriage present kèen bring, fetch gùyrka the marriage kuf fall (while running or húbka the weapons walking) 'ágalka the house

g. g has not much voice initially. In a number of kymograph tracings made by Haji Farah no voice at all is recorded initially:

gà æd reach gæd hole

gall pool gæg one side of camel skin

gal enter gyyrr marriage

The following subsidiary members of the phoneme occur and may all be represented by g:

1) A weak kind of k with no release before t:

náagta the woman 'œœgta the beacon deœgta the pain2) dégta the ear

2) Voiceless (or with slight voicing) and with no release; or k with glottal closure and release, finally³):

tà æg raise tù ų g robber tag go naag woman dà æg green grass

3) Sometimes y when single between vowels, especially after a stressed syllable. Isman Dubet used y much more frequently than Haji Farah:

¹⁾ Haji Farah pronounced the sound with no release; Isman Dubet generally used ejective t.

¹⁾ See footnote 1, page 154.

²⁾ Pain which recurs after wound from blow.

³⁾ Haji Farah generally pronounced the sound with no release; Isman Dubet used k'.

'an 'έεgo let me look sagaal nine 'an tágo let me go nín rága brave man

Double g also occurs between vowels and may be represented by gg. Partially or fully voiced:

 $h \acute{\alpha} gga$ the hole $r \acute{a} gga$ the men $d \grave{\alpha} \alpha gga$ the green grass $\hbar aggee$ where? $t \grave{\gamma} \dot{\gamma} gga$ the robber $\hbar \acute{a} ggan$ here $\hbar \acute{a} gga$ the place $b \acute{a} dagga$ the goose

q. q is made by raising the back of the tongue to the extreme back of the soft palate. At the same time there appears to be pharyngal modification. The symbol q suggests a voiceless sound; but Somali q must be classed, not with t and k, but with b, d, d and g, since in the matter of voicing and lack of any aspiration it behaves in the same way as these sounds. The symbol g would be more suggestive of the nature of the sound; but g is a more convenient symbol.

Haji Farah's sound had very little voice initially; often none at

all:

qárbed leather bucket for
carrying waterqùus dive
qósol laughterqaan debt
qahwε coffeeqab proud
qòo∫ mix
qáalin young camel (m.)

The following are the subsidiary members of Haji Farah's q phoneme:

1) Voiceless (or with slight voicing) and with no release, finally:

qìiq smoke faq consultation mìiq thread bàaq call, signal bùuq clamour ħaq truth

2) Often &, i. e. weakened to the corresponding voiced fricative, when single between vowels, especially after a stressed syllable. In careful speech, however, Haji Farah preferred G (partially voiced) in intervocalic positions:

baqal mule (f)
bóqor king, scarf
máqal listen
bóqol hundred

Double q also occurs between vowels and may be represented by qq. This, in Haji Farah's pronunciation, was either partially voiced or voiceless. The tracing he made of the word $f\acute{a}qqa$ (the consultation) shows no voice in the q's:

 $\hbar \acute{a} qqa$ the truth $m \acute{i} iqqa$ the thread $d \acute{u} qqa$ the old person

Isman Dubet pronounced q as an affricate in initial and final positions. Initially it was partially voiced g the fricative element

being weak. Finally it was voiceless: $q\chi$ or q; medially κ after a stressed syllable, generally κ in other intervocalic positions.

'. Ordinary glottal stop.

It appears to be nearly always possible to use 'before a vowel in an initial syllable and it need not therefore be represented in this position. In cases where it should not be inserted, e.g. in 'orod oo (and run) the two words could be written as one: 'orodoo, or with a linking mark: 'orod_oo.

Medially:

 $d\acute{x}'da$ the age $d\acute{o}'a$ the loincloth $d\acute{x}'i$ erase, blot out $d\acute{x}'i$ erase, blot out $d\acute{x}'i$ age $d\acute{x}''$ not to find $d\acute{x}''$ age $d\acute{x}''$ herd of cattle (cows)

II. Affricate

j. j is made with the tip of the tongue against the lower teeth; a closure is formed between the blade of the tongue and the back of the teeth-ridge, and the rest of the tongue is raised towards the palate. During the closure there is little or no voice when the sound is initial, and very little when medial. When the stop is released the corresponding fricative is heard. Haji Farah's j sounds rather like English tf (of cheap); Isman Dubet's is more voiced and is thus more like English dz (of joke). Somali j does not occur finally.

Initial:

jirr rat
jèss very small village (two
or three houses)
jir protect
jird pull along
jid flesh, body

Medial:

'ajiin dough

jèss very small village (two
or three houses)
jèæg stop, remain
jiid lean (meat)
jiæ h face

ganjiido pinch

'anjiid scar on cheek
'antúuji give a mouthful

qanjiido pinch hagáaji make straight, right hajiin itching

III. Nasals.

- m. Normal. Does not occur finally in Somali words. Vowels preceding and following are very noticeably nasalised. This nasalisation is not significant, and it is therefore not necessary to mark it.
- n. Finally in many words, generally after a long vowel, a very weak variety of n is used and the preceding vowel is nasalised. One has the impression that this final n will soon disappear and that there will be nothing but the nasalised vowel to tell of its previous existence:

sòon fast (in Lent)
siin gift
haan vessel of bark for milk
and water
toon garlic
'òon thirst

qùin veer round, shift (of a vessel)

agòon orphan (m.)
sùun leather strap
saan skin, hide (of camel,
cow)

Finally in many words, generally after a short vowel in a stressed syllable, the n is long and strong:

din lessen (of liquids)
min big basket of dates
wan ram
nin man
fin pimple
'arrin matter, subject

ballin appointment
fan five
gan aim with bow and
arrow
san leather
dan drink (milk or water).

There also occurs finally voiced n followed by voiceless n (n) which appears to be significant. This group may be written nn or nn. The latter is used in this article with the convention that when double letters are used finally the second one represents a voiceless sound; thus sann is to be read as sann.

Examples:

sann nose gann horse's mane, wiry hair san leather gan aim with bow and arrow

dann side mann blossom dan drink (milk or water)

When a termination is added to the words ending in nn, a single voiced n only is used:

sanan noses sánka the nose dánkaa that side

Both Isman Dubet and Haji Farah use voiceless n in a certain number of words; but since it occurs only in final positions it may prove to have little importance.

Double n (fully voiced) may occur medially:

weynu qábannay we went weynu só'onnay we walked dinned cat

n is pronounced m before b; η before g, k; N (uvular nasal) before q. It is unnecessary to show this in the orthography:

'an báado Let me search waan kúfi I shall fall nín bàa yidi... A man said.. 'an gálo Let me go in búnka the coffee waan qóoſi I shall mix

IV. Lateral.

l. The resonance of l varies according to the quality of the neighbouring vowel; it is never very "clear". Initially and medially the sound is always fully voiced:

laan branchliyl pearllàad kick'ulus heavylaf bonegalal poolsliq swallow (action)halo big she-camelslèɛf lick'ilin dwarf (m.)lo' herd of cattle (cows)qáalin young camel (m.)

Final l is often partially voiceless (ll), but except in a few words (see paragraph below) it does not appear to be necessary to pronounce final l as ll^1). It may be represented by l:

fabὲεl leopardyὲεl vessel for water; dodabòol covergàal unbelievernàyl lamb (m.)fandàal wooden spoon'ὲεl well (water)bàal feathergèel group of camels

Finally in many words, generally after a short vowel in a stressed syllable, the l is long and strong:

dyl nostrilsol grillkul hotfal act, dodil killhal she-cameldil peelgal enterkol timetol sew

There also occurs finally voiced l followed by voiceless l (l), this l being significant. Final voiceless l may be written l or h or l. The latter symbol is used in this article with the convention that when ll is written finally, the second l-sound is voiceless; thus fall is to be read as fall:

fall hypnotise (cf. fal act, do)
hall small pieces of anything
(cf. hal she-camel)
gall pool (cf. gal enter)
toll clan (cf. tol sew)²)

When a termination is added to the words ending in ll, a single voiced l only is used:

gálka the pool tólka the clan galal pools tolal clans

¹⁾ Isman Dubet pronounced final l as ll in all the words given in this paragraph. Haji Farah and one other native I heard pronounced it l.

²⁾ Both Isman Dubet and Haji Farah make these differences. But since the unvoicing occurs only in final positions it may not be very important.

Double l (fully voiced) may occur medially: 'illæw forget dallàan young ones ballàad wide (children and animals) falliid half of tooth ballin appointment (broken vertically) bálli Somali reservoir dullah abscess fállad one eighth 'illo put your shoes on fallaad arrow hangállo hopping(?) sallaan ladder kelli kidney

V. Rolled.

r. Rolled lingual.
Initially in a word r appears to be always strong and practically voiceless. It may be represented simply by r:

ràa' accompany ràad footmark ròob rain rah frog

Medially there exist r and rr.

a) r. Kymograph tracings show this to be a voiced one-tap r:

marεεn path'áaro spider(generally in a
wáran spear [wood)'aruur childrenrεετο villagesrεετο villagesgéri giraffemáro loincloth (10 yards)gεετί deathbérί year ago'úiro fog, mist

Single intervocalic r must be distinguished from single intervocalic

d (i. e. from r). Compare tiri (count) with tidi (she said).

b) rr. These sound partially voiceless, but kymographic tracings show voicing throughout. The voice is probably obscured by the breathiness which accompanies the sound. A series of clean-cut taps with strong voicing throughout does not produce at all the right effect and is not accepted as correct:

'arrin matter, subject

qorraħ sun

bérri land (cf. béri a year ago)

warran tell the news

(cf. wáran spear)

'árrab tongue

harràad thirst

'irro grey beard, grey hair

ħɛrrib wisdom

Finally there occur

a) Practically fully voiced r (with four or five taps) after short vowels:

b) A shorter r (about three taps) practically unvoiced, after long vowels:

gỳyr shift ròor run
sàar put high jiir upward slope
qaar big heavy stick dabèer donkey (m.)
reer village

Both these r's, (a) and (b), may be represented by r.

c) Very long r (nine or ten taps) after both long and short vowels. After short vowels the sound is voiceless during the latter half of its length. After long vowels it gives the impression of being entirely without voice.

This long r could be written r_l , r_l or r_l . The latter is used in this article with the convention that when two r's are used finally the second one represents a voiceless sound; thus marr is to be read as mar_l . This length of r is significant in all the words I have collected:

marr one time (cf. mar pass)
sàarr fit (cf. sàar put high)
garr plait (cf. gar case (law))
qàarr some (cf. qaar heavy stick)
bèerr liver (cf. beer field, garden)
furr cork (cf. fur open)
jarr steep cliff (cf. jar cut)
gùyrr marriage (cf. gùyr shift)
'irr sky (cf. 'ir food in stomach)
warr news (cf. war pool of water)
jiirr rat (cf. jiir upward slope)
jirr heavy rain (cf. jir protect)
ròorr kind of lizard (cf. ròor run)
'áwarr one-eyed person (cf. 'áwar wound)

When a termination is added to the words ending in rr, a single voiced r only is used:

gárka the plait gárta the case garar plaits garo cases

Although final rr is significant in the case of some uninflected words, its occurrence may be found to have very little importance in the language.

VI. Fricatives.

f, s and f are often pronounced long and with very strong breathforce. I have not yet found words in which this length and strength is significant. For s and f the tip of the tongue is against the lower teeth and the sounds are articulated with the blade.

x. Occurs in Arabic words only:

xal vinegar xàyl young ass xamàar gambling xamiis Thursday h. Initial (normal, as in English):

hoos underneath, below hor beginning hub weapons (general term)
habàas dust

hæg hole

Medial (voiced):

dúhur just after noon rahyo frogs gahwε coffee báhal wild beast wáhan melancholy

Final:

deh say

baabah empty jàxh face

soddoh mother-in-law tàah groan, moan

Words often 'lose' their final h in the course of connected speech.

 \hbar . Voiceless pharyngal fricative. \hbar is pronounced with the vocal cords wide apart as for ordinary h: but the air-current does not pass freely through the pharynx as it does for h. Two essential elements of the articulation of \hbar appear to be

1) a raising of the larynx,

2) contraction of the pharyngal muscles1).

These conditions lead to a narrowing of the pharyngal passage and the setting up of a very special kind of friction there, as the air-current

passes through.

An X-ray photograph of Haji Farah's throat during the pronunciation of \hbar^2) shows the larynx-raising to be appreciably more than for the Somali vowel a^2). Pharyngal contraction is also indicated in the photograph by the position of the epiglottis which is squeezed back, narrowing the pharyngal passage.

Examples.

Initial:

ħàwd thin stick

haq truth

had steal
hil shame
hid fasten

ħέεδο Somali dish
 ħέτο enclosure
 ħεττίδ wisdom

hyn bad

ħarrágo smartness, fashion

Medial:

wáħar baby goat (m.) aħad Sunday maħày tidi? What did she say? wáħa(a)n I

1) Both experienced in the act of retching.

Final:

rìih push
tìih shower
dih dry bed of river
lih six
rùuh life, soul

fùuh mist
wah thing
qorrah sun
libàæh lion
dágah stone

'. Voiced pharyngal fricative.

An X-ray photograph of 'shows that this sound has, in a greater degree, the pharyngal contraction characteristic of \hbar : there is shown a greater raising of the larynx than for \hbar , and a greater narrowing behind the epiglottis¹). The voicing is intermittent.

Examples.

Initial:

'abàad grunting noise of camel 'æb drink 'yyd cattle (general term) 'iil anger 'lir'lir stagger 'ulus heavy Gir buttermilk 'áwo night, luck, girl's name 'irr sky 'áso supper EEl well (water) 'aano milk 'od voice 'áawa to-night 'un eat 'ásar afternoon 'addàan white 'ádæw enemy Medial: gá'an elephant's trunk sá'a the cow dab'àal miser gúrra'a the wrong dawá'o (also da'áwo) fox arba'a Wednesday

na'as silly Final:

ma'àan sweet

(general name)

gúrra' wrong (noun)sa' cowdææ' belchda' rob, falldáwa' male foxqú/a' coughràa' accompanymúda' fork'ùu kε' he got up

VII. Vowel Glides

north

só'od walk (noun)

hàwd bùu 'ú ka'ay he went to the

w wiil boy waab shed, hovel
wæw' not to find wan ram
wah something dawá'o fox
wad drive (camel,
vehicle, etc.)

²) Taken in the Department of Anatomy at University College, London. Photographs showing the articulation of 'and a were also taken. These photographs are reproduced in *Le Maître Phonétique*, January, 1934.

⁹ Mitt. d. Sem. f. Orient. Sprachen, 1934.

¹⁾ It is probably about the same as for Southern English æ. I have taught ħ by asking the student to make æ with very exaggerated effort and then to substitute breath for voice.

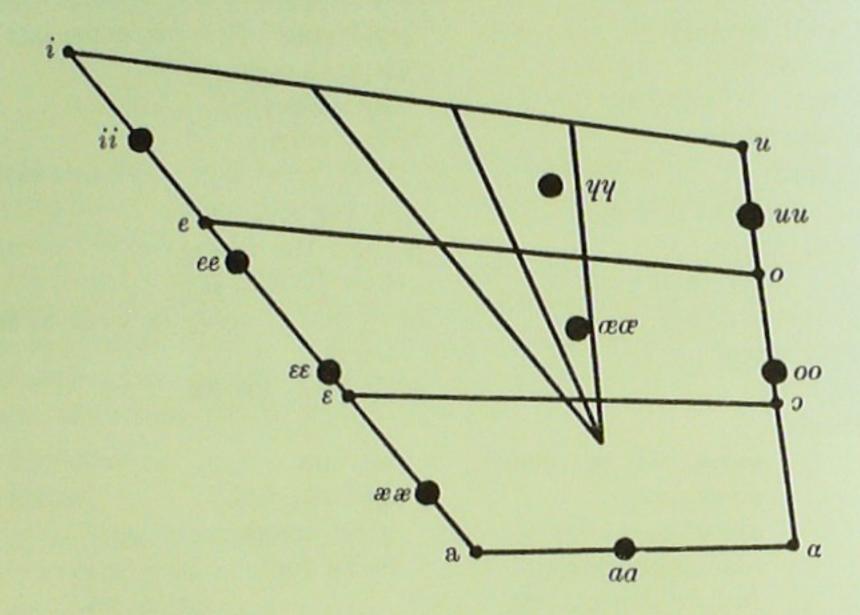
The symbol w is also used to represent the second element of certain diphthongs. (See pages 136-7).

y yὲεd call yar little yidi he said iyo and yὲεl obey, do

The symbol y is also used to represent the second element of certain diphthongs. (See page 136).

VOWELS

All vowels are nasalized in the neighbourhood of nasal consonants. For the help those who know the Cardinal vowel system the approximate tongue positions of the long vowel phonemes of Somali are here shown in relation to the positions of the Cardinal vowels. The Somali vowel positions are shown by large dots, the Cardinal by small ones:



It may be pointed out here in defence of the inclusion of e and e (and also of e and e) among the essential vowels of Somali that neither vowel harmony nor the influence of neighbouring consonant sounds can account for the occurrence of these vowels in monosyllabic words pronounced in isolation; the fact that e can occur under exactly the same conditions as e, e as e, e as e and e and e as e, must be regarded as proof that these pairs of vowels belong to different phonemes. They should, therefore, even in the broadest transcription, be represented by separate symbols. The fact also that suffixes, verbal inflexions, etc., are pronounced with front or central vowels after e, e, e and e and

with retracting vowels after ε , a, o and u (see Section on Vowel Harmony) adds further support to the opinion that each of these vowels should be regarded as a separate phoneme.

I. Pure Vowels

1. Front.

i. Occurs long and short. Never very close. Varies considerably according to nature of neighbouring consonants. E. g. in 'ii (anger), the vowel is more open than in siig (antelope); in qiiq (smoke) and in 'iir (buttermilk), where an influencing consonant occurs on either side, the vowel is more open still: it is, in fact, like a retracted e. The sound d also has a slightly lowering effect. When the vowel is followed by q or \hbar there is a very noticeable central glide on to the consonant:

Examples of ii: wiil boy diig blood rìih push dìib hand, pass over diin tortoise tìiħ shower kiif bag (with draw top) qiiq smoke jiid drag along miiq thread diig cock 'iir buttermilk 'iil anger Examples of i: liq swallow (action) lis sharpen (razor, lih six knife, etc.) ri' goat (f.) bil month rif tear, pluck (bird) dir send sid carry dig put down, put on 'irr sky dil kill mid single, one dil peel jid body hil shame gir acknowledge

e. Occurs long and short. The vowel is closer than the Southern English vowel of egg.

Examples of ee:

gèes side, direction gèes horn gèel group of camels habèen¹) night hees he sang (short form)
seeg he missed (short form)
siddèed eight
geedo pasture

¹⁾ habèen is also heard.

```
Examples of e:
                                    deg ear
      ded cover person with
                                    leg under part of sheep
        blanket
                                    de' it rained (short form)
      deg alight
 \varepsilon. Occurs long and short. Has about the same value as the vowel
of French bête.
  Examples of \varepsilon\varepsilon:
       feed rib
                                    lèef lick
       fèed blow with clenched
                                    sèeb oar
         fist, comb
                                    meel place, part
       hees song (cf. hees, he
                                    fèεg tell
         sang)
                                    yèed call
       hèes sing
                                    'èeg see, look at
       kèen bring
                                    'èel well (water)
       jèsb pocket
                                    reer village
       sèeg miss (cf. seeg, he
         missed)
        yèel obey, do
        jės very small village (two
          or three houses)
  Examples of \varepsilon:
                                     keli single
               géri giraffe
                                      héro enclosure
               det centre
                                     gahwe coffee
                deh say
                                     bélel flame
               sáddeh three
               berri tomorrow
  w. w resembles the vowel of Southern English man. It occurs
long and short.
  Examples of ææ:
                                  wæw' not to find
'àæd well, loud, strong
                                  rææg be late, delay
dææn one side of jaw
                                  rææg he was late (short form)
dææf bottom
                                   rææ' he accompanied (short form)
dàxf eye disease
                                  nææħ he became fat (short form)
tææg raise, put upright
                                  wææħ a quarter
tææg he raised (short form)
                                  gææd he attacked (short form)
rææd footmark
dææs shop
                                  jææs axe
gàæd reach
                                   dææl fatigue
gázdey1) I reached (cf. gaadi,
   Examples of x:
                           dæ' age, it rains
                           'æb drink
```

'æd piece of meat

2. Back.

a. a is really intermediate between front and back. It is a much more common vowel than x. Long a has a more advanced tongue position than the vowel of English calm; short a generally resembles the a of English gun^1). In very weak syllables it is a like.

Examples of aa:	
bàad search	laan branch
gaadi carriage	làan small tree
naag woman	ràa' accompany
sàab wooden basket work	nàah get fat
saan hide of cows, camels	màag aggravate
gàad attack unexpectedly	laab chest
islàan old man	haad down (fine hair)
taag strength	ħagàaf plough
waab shed, hovel	habàas dust
dàaq graze	
Examples of a:	wad drive
dab truth	
bal but	wah something
dab fire, snare (for animals)	bad sea
naq green grass	bad half
sab outcast	xal vinegar
sann nose	laf bone
tag go away	'af mouth, language
dann side, direction	raq corpse
qab vain, bang	rag men, masculine sex
gal enter	máqal listen
gall pool	bádag goose
faq consultation	nabad peace
dad people	galab evening
'ad white	basal onion
	I wowel of English saw O

o³). Rather closer than the normal vowel of English saw. Occurs long and short.

¹⁾ See footnote 1, page 154.

¹⁾ There are exceptions to this. For example in the following words I have noted that the sound is short but has the quality of long a. The use of the more open sound is probably due to the influence of a neighbouring glottal or pharyngal consonant (', ', ħ, h): 'áqi (sheep and goats). (The q is probably not the influencing sound, since in baq (half), gabaq (daughter), waq (dry), qann (direction), etc., the a is a-like). 'árag (see). (Here the first a is a-like, the second a or z-like. The r is probably not the influencing sound, since in mar (pass), gar (law-case), war (pool of water), wáran (spear), etc., the a is a-like). 'ad (white), 'ásar (afternoon), 'áfo (supper), ħag (place), ħad (steal), ħaq (truth), ħagàaf (plough), waħ (thing), laħ (ewe), hal (she-camel), had (remainder), háddii (if).

²⁾ a is the symbol for the final vowel of banana.

⁸⁾ The familiar symbol o is used, though o would be a more accurate representation. (See diagram, page 131.)

Examples of oo: dòob youth (unmarried) lòoh writing board 'agòon orphan (m.) 'con thirst qòos mix ròob rain bòob grab dool lateral incisor tooth mòod useful property (such dòol very big cloud as money, furniture) tòos get up from a low place, ròon good wake up (cf. tϾs he got up) Examples of o: 'ol enemy go' loincloth (five yards) qod dig (cf. qoed, he dug) hor beginning, front qósol laughter lo' herd of cattle bógol hundred tol sew toll clan

u. Long u resembles a very close back o, except after y and w when it is more u-like. Care must be taken to make short u more retracted than the vowel of English put.

Examples of uu: bùuq clamour dùul fly (cf. dùyl, attack) sùun leather strap, belt guur travel by night kuul necklace quus dive wuu he dùuħ jist, pith, marrow ayyùu he rùuh soul, life fùuh mist Examples of u: dul earth, ground bun coffee tus show dul top, above (cf. dyl, ruh shake nostril) kuf fall (cf. kyf, he fell) sug clear (cf. syg, wait,

he cleared)

tuf spit (cf. tyf, he spat)

3. Central Rounded Vowels.

'ulus heavy

sun poison

æ. Occurs long and short. Resembles the Swedish vowel of kung, but is more open and a little more central than this. Some Southern English people use a very similar vowel as the first element of their diphthong of load, mode, etc.

Examples of ææ:

bàæd jump 'ææg beacon

hàææg evil wish fææd forehead

dàææg green grass mææg careless, ignorant

jææg wait

mææd think (cf. mòod, useful

property, e. g. furniture,

money)

fæg far ræg turn over gæb respectable person, tog valley special tree bæg approve, agree hæg hole mæg agree y. Occurs long and short. Intermediate between the French vowels of vous and vu. Similar to the sound of u in Norwegian hus, but more open. Examples of yy: liyl pearl lyy/ slice tyyg robber gùyr shift (cf. gùur, travel by dùyl attack (cf. dùul, fly) night) dùyg rub (oil) in; old (of tùyl heap up things) ryyg knee-cap dyng dip fingers in butter 'yyd cattle (general term) or milk and suck or lick them $d\dot{y}y(h)$ skin garment Examples of y: dyl nostril tyf he spat (short form) dyg good marksmanship hyf he missed (short form) gyb burn hyn bad syg wait

Examples of @:

II. Diphthongs.

wèyn big dèyn debt(?) wèyl calf wey éegeysey she was weyd thin, weak looking wàan árkay I saw nàyl lamb (m.) gábay sing wàan máqlay I heard wàan háday I remained káalay come aaw. 'àawr camel (m.) dàawrr several 'aaw plait of basket work 'aawl gazelle made from palm leaves 'aaws grass haawl hard work qaaw sharp noise made by striking repeatedly dàawr take care of, leave qàawll command, will some, Look! dàaw way, path

aw. This is a very different sound from aaw. The first element is a-like and the glide from this position is made in the direction of y and not of u^1). In a narrow transcription the sound might be written ay.

¹⁾ The diphthong is similar to that heard in the Devonshire dialect in house, sound, etc.

'àwd Cover! hàwd north dáwlis long rope attached hàwd thin stick to a bucket for water

I am tempted to think that aaw and aw belong to the same phoneme. But if this is the case, the difference in the pronunciation of the diphthongs of haawl and hàwd is difficult to explain. More examples containing aaw and aw must be collected and studied.

œw. In a narrow transcription this sound might be written œy.

gœws molar tooth ægæw take care of mœwliid (also mawliid) prayer

fugæw Get far away! hádæw laggard (applied to camel) dæw near

for the dead kàw one (in counting) awaw grandfather

gœura' slaughter mádæw black hálœw flame, blaze

waan gabœwbi I shall grow old waan qabowbi I shall get cold bowdo thigh

illaw forget

In certain groups ow is used, that is, a diphthong starting in the position of o and moving towards u. (See page 155 (e)).

LENGTH.

It will have been noticed from the examples given that length of vowels and consonants is very important and in many cases significant.

Examples of Significant Vowel Length:

fiin small bird of evil omen. (Also heralds the coming of rain)

Gild sand

'id human beings and animals

jiirr rat jirr heavy rain

fin pimple

jiid lean (not fat) jid body, flesh

diil jar made of fibre dil peel

dif nagging (?)

dif seldom, rare, few

diig blood dig put on

'iir buttermilk ir food in the stomach other than wild ones

saan hide of cows, camels

san leather

laab chest (body)

lab male

taag strength tag go away

kuul necklace

kul hot

suun road sun poison

náagta the woman náagtaa that woman

'áqalka the house 'áqalkaa that house

In the above examples the tone is the same for each pair of words. In the following, tone differs as well as length:

bàal feather bal but

diyag dip fingers in buttrr or milk and suck or lick them dyg aiming (in shooting)

bàad search bad half

hàcag evil wish hæg hole

gàal unbeliever gal enter

dyyl attack dyl nostril

Examples of significant Consonant Length.

Examples have already been given of significant length in the case of final n, l and r.

Examples of significant consonant length medially:

keli single kelli kidney

há gæædo let him reach há gææddo let her reach

'ilo springs of water 'illo put your shoes on

há bæædo let him jump há bææddo let her jump

wáran spear warran tell the news an gálo let me go in an gállo (or gálno) let us go in

salaan Peace! (greeting) sallaan ladder

má hadaan? do (can) they remain? má haddaan? do (can) you remain?

gæædey¹) I reached gææddey¹) she reached

má baadaan? do (can) they search? má baaddaan? do (can) you

search?

báaday I searched báadday she searched

This is a convenient place to draw attention to the frequency of double consonants, particularly, of voiced plosives, initially in words in connected speech. This doubling is not significant. It appears to take place after a stressed syllable ending in a short vowel and pronounced usually with the high level tone. It is commonly heard, for example, after the particles ka, u, ku, ma, ha. The doubling is recorded in the following examples, but need not be recorded either in a phonetic transcription or in ordinary orthography.

¹⁾ See footnote 1, page 154.

Examples:

kú ddεh say to him (to her) há ggalo let him go in há ggaleen let them go in má ggasaan? Do you (pl.) go in? má ggafàan you do not go in má ggaran I don't understand ká qqàad take from

'ii ddiib give (pass) to him háawl baan 'ú ddimánayyaa I am dying of hard work digtæænádu ká wwanæægsan geesinimáda cautiousness is better than bravery

It often happens in Somali that certain sounds are long when the words in which they occur are pronounced in isolation, but short in quick speech. In such cases it is perhaps advisable always to record those sounds with double letters1).

TONES

The Tones of Isolated Words

There appear to be four main tones:

1. High level, often with a non-essential rise (").

2. Mid level. This often rises slightly, but the rise is not essential. The interval between the high level and the mid level is about one musical tone (-).

3. Low level, generally falling in quite final positions. This tone occurs in final syllables after the high level and the falling tones. The interval between the high and low level tones is about a fourth ().

4. Falling. This falls from high level to low level (\).

1) Compare the use of length marks in the broad transcription of English.

System of marking word-tone used in this article.

One Syllabled Words.

One syllabled words are pronounced either with the mid-level or with the falling tone.

- a) Mid-level. No mark is used to indicate this tone: bad (half), sun (poison), laan (branch), 'iir (buttermilk), lih (six), sid (carry), hal (she-camel). When the suffix denoting the definite article is added, the root syllable has the high level tone (marked with an acute accent over the first vowel letter of the syllable), the suffix the low level tone (unmarked), (): bádka (the half), súnta (the poison), láanta (the branch), 'irta (the buttermilk), háffa1) (the shecamel).
- b) Falling. This is marked by a grave accent over the first vowel letter: bàal (feather), làan (small tree), dàæg (green

grass), yell (do). When the suffix denoting the definite article is added, the root syllable retains the falling tone, the suffix is pronounced with the low level tone which is unmarked, (_): bàalka (the feather), laanka (the most) dàægga (the green grass).

Two Syllabled Words.

- a) Both mid-level1). No mark : sagaal (nine), 'inan (daughter). xamiis (Thursday), nirik (baby camel (f.)), qorrah (sun), dabayl (wind). When the suffix for the definite article is added, the first syllable is pronounced with the mid-level (unmarked), the second with the high-level (acute accent), the suffix with the low level which is unmarked, (-) 'inánta (the daughter), niríkta (the baby camel (f.)), qorráhda (the sun), dabáysa (the wind), deeráda (the gazelle).
- b) Both level, the first high, the second low (_). An acute accent is placed over the vowel of the first syllable: bóqor (king), 'inan (son), nirik (baby camel (m.)), 'aqal (house). If the suffix for the definite article is added, the first syllable retains the high level, the second and third syllables are low (__): bóqorka, nírigga, 'ínanka, 'áqalka.
- c) First mid-level, second falling (-). A grave accent is placed over the first vowel letter of the second syllable: sabèεl (leopard), fandàal (spoon), siddèed (eight), so'dàal or sod'àal (traveller). If the termination for the definite article is added it is pronounced with the low level or slightly falling tone, which is unmarked (- \): sabèelka, fandàalka, so'dàalka.

Tone and Gender.

There is a connection in Somali between tone and gender.

Monosyllabic nouns which have long vowels or diphthongs and are pronounced with the falling tone are masculine:

		With definite article
miiq	thread	miiqqa
dìig	cock	dìigga
tìiħ	shower	tìiħa
gèes	horn	gèeska
sèeb	oar	sèebka
dàæs	shop	dææska
jàeah	face	jææha
làan	small tree	làanka
ròob	rain	ròobka

¹⁾ Isman Dubet often pronounced the second syllable on a slightly lower pitch than the first.

ròob

¹⁾ One f was accepted.

dàæg	green grass	dàægga
sùun	leather strap	sùunka
lùyf	slice	lyyfka
nàyl	lamb (m.)	nàylka

Monosyllabic nouns which have long vowels or diphthongs and are pronounced with the mid-level tone are feminine:

With definite article

da
ı
(

There are exceptions to this. For example, reer, réerka (village),

fuud, fúudka (soup), are masculine.

Monosyllabic words which have short vowels are pronounced with the mid-level tone. There are no exceptions to this among the words I have collected. Of those words which are nouns some are masculine and some feminine. Thus tone is here no guide to gender.

Masculine:

	'æd	piece	'ædka
	dab	fire	dábka
	dann	side, direction	dánka
	gall	pool	gálka
	dad	people	dádka
	bad	half	bádka
	'af	mouth, language	'áfka
	rag	men, masculine sex	rágga
	'ol	enemy	'ólka
	tæg	valley	tégga
	dul	earth	dúlka
	dyl	nostril	dýlka
	go'	loincloth	gó'a
	sa	cow	sá'a
Feminine:			
	sab	outcast	sábta
	bad	sea	bádda
	laf	bone	láfta
	raq	corpse	ráqda

lo'	herd of cattle	l6°da
gab	respectable person	gœbta
sun	poison	súnta
dyg	good markmanship	dýgta
Two-syllabled nouns	pronounced with mid	-level tones are feminine:
gabad	daughter	gabádda
`addoon	slave (f.)	'addóonta
'inan	daughter	'inánta
ʻilin	dwarf (f.)	'ilinta
fabeel	leopard (f.)	∫abέε∫a
qorraħ	sun	qorráhda
dabayl	wind	dabáyſa
qadoon	bark of tree	qadóonta
soddoh	mother-in-law	soddóhda

Two-syllabled nouns pronounced with a high followed by a low level tone are mostly masculine. Some are feminine.

Masculine:

'inan	son	'inanka
'îlin	dwarf (m.)	ʻilinka
'áqal	house	'ágalka
qósol	laughter	gósolka
'ásar	afternoon	'ásarka
bélel	flame	bélelka
dágaħ	stone	dágaħa

Feminine. These end in o (or, after a fronting vowel, α) in the singular, which is plural in form. Their tones are (__) like those of the masculine words given above. When the termination for the definite article is added the tones are (-__) and not (___) as for the masculine words given above:

wáddo	road, path	waddáda
πέεφο	Somali dish	ħεεdáda
déero	gazelle	deeráda
hœœyo	mother	hœœyáda
ħéro	enclosure	ħeráda
máro	loincloth (ten yards)	maráda
'áaro	spider	'aaráda

Two syllabled nouns pronounced with a mid-level followed by a falling tone¹) are masculine:

habèen	night	habèenka
libàeat	lion	libàeæħa
Sabèel	leopard	fabèelka
'eesàan	young goat (m.)	'eesàanka
habàas	dust	habàaska

¹⁾ I think that the vowel in the syllable with the falling tone is (or may be) always long.

fandàalspoonfandàalka'addòonslave (m.)'addòonkaso'dàaltravellerso'dàalkadab'àalmiserdab'àalka

It will be seen from the above examples under Tone and Gender that the masculine ending for the definite article begins with the sound k unless the root ends in:

1) g, when the termination begins with g: $h \acute{e} g g a$ (the hole)

2) q, when the termination begins with q: $f\acute{a}qqa$ (the consultation)

3) ', ', ħ, h, when the termination has no initial consonant : gό'a (the loincloth), gúrra'a (the wrong), dágaħa (the stone), jàæha (the face).

The feminine ending for the definite article begins with the sound t unless the root ends in

d, q, ', ħ, h, o, when the termination begins with d: bádda (the sea), ráqda (the corpse), ló'da (the herd of cattle), qorráħda (the sun), soddóhda (the mother-in-law), ħεráda (the enclosure)

2) d, when the termination begins with d: gabadda (the daughter)

l, when l is replaced by f before the vowel termination: mέεfa (the place).

Plurals of both masculine and feminine nouns are pronounced with the mid-level tone in all syllables:

naylal lambs (m.)kuulo necklacesnaylo lambs (f.)sεεbab oarssanan noseslibææħiyo lionsniman menfandaalo spoonsnaago women'inamo sons

Exceptions are the feminine words already referred to, ending in o in the singular. These have (- __) in the plural:

heedœœyin (also ħεεdiyo, with level tones)
deerœœyin
hœœyœœyin
herœœyin (also ħεriyo, with level tones)

Significant Word-Tone.

The following are examples to illustrate the semantic value of tones in Somali:

gees side, direction	maal scrofula
gèes horn	màal milk
hees song hèes sing	qaan debt qàan foals of camel

laan branch làan very small tree standing alone

dææg pain recurring after wound from blow dææg green grass

dool lateral incisor tooth dool very big cloud

siin gift siin mucus

'iir buttermilk
'iir fall down slowly (as if ill)

laab chest (body) làab fold, bend

buur mountain
bùur make round (with hand),
mound

kuul necklace kùul favourable conversation about person

'aawr plural of 'àawr 'àawr camel (m.)

qaaw noise of the blacksmith's hammer and other similar tapping sounds qàaw big mountain

suun road sùun leather strap

daal common ground in front of village dàal or dàal lentil

fεεd rib
fὲεd comb, blow with clenched
fist

toon garlic toon fruit of gæb (special tree)

dææn the other side of the river dææn jaw (one side)

yeel long strip of leather for strapping load on to camel yèel do, obey

gææd he reached (short form)
gææd reach

rææg he was late (short form)
rææg be late, delay

tææg he raised (short form) tææg raise, put upright

bææd he jumped (short form)
bææd jump

weyl heifer wèyl calf

diin religion diin tortoise

ga'an arm, hand gá'an elephant's trunk

berri tomorrow bérri land

xamiis Thursday xamiis very long shirt

da'al lobe of the ear
dá'al corner of something that
can be held, e. g. loincloth,
mat, sheet of paper

maqal lambs and kids máqal listen

dabbaal swimming dabbàal direct (of cattle)

sanan noses sánan idol	'addoon slave (f.) 'addoon slave (m.)
'ajártan forty 'ájartan this four (pointing)	waħar baby goat (f.) wáħar baby goat (m.)
bahal thing báhal wild beast	'ilin dwarf (f.) 'ilin dwarf (m.)
'inan daughter 'inan son	'εεsaan small goat (f.) 'εεsàan small goat (m.)
'islaan old woman 'islaan old man	qaalin young camel (î.) qáalin young camel (m.)
nirig baby camel (f.) nirig baby camel (m.)	baqal mule (f.) báqal he-mule, radish
Verbal Forms	
	you do not tell (pl.)
má ∫εεgtaan? (¯)	
má gafàan	youdo an lot go in
má gafaan?	do {you go in?
má tagtàan	you do not go
má tagtaan?	you do an and not go do you go?
má 'εεgtàan	You do not look
má 'εεgtaan?	Do you look?
má baaddàan	You do not search
má baaddaan?	Do you search?
má raa'dàan	You do not accompany
má raa'daan?	Do you accompany?
má haddàan	You do not remain
má haddaan?	Do you remain?

10 Mitt. d. Sem. f. Orient. Sprachen. 1934.

má ∫εεgàan	They do not tell
má ∫εεgaan?	Do they tell?
má galàan	They do not go in
má galaan?	Do they go in?
má tagàan	They do not go
má tagaan?	Do they go?
má 'εεgàan	They do not look
má 'εεgaan?	Do they look?
má baadàan	They do not search
má baadaan?	Do they search?
má raa'àan má raa'aan?	They do not accompany Do they accompany?
má hadàan	They do not remain
má hadaan?	Do they remain?

Phrases and Short Sentences

Phrases and Short Sentences		
waa 'inán dèer waa 'inan dèer	(\) (\)	the daughter is tall the son is tall
waa súun dèer waa sûun dèer	(- ' \)	the road is long the leather belt is long
14 1-14		
láan kelíya làan kelíya	()	one branch one small tree
làan iyó laan laan iyo làan	(/)	small tree and branch branch and small tree
'inan iyo 'inan 'inan iyo 'inan	()	son and daughter daughter and son
gèel iyo 'ádi 'ádi iyo gèel	(\)	camels and sheep and goats sheep and goats and camels
labá qàad laba qàad	(\)	Carry two!
siddèed qàad siddeed qàad	(- \ \)	Carry eight! carrying eight
-		

Tones in Connected Speech

In tone languages syllables may not, and often do not, have in connected speech the tones which they bear in isolation. Tone changes are brought about mainly by the influence of neighbouring tones and by position in a sense-group. They are not made arbitrarily but are governed by rules which can be formulated after the careful study of many examples.

In Somali tone changes are common in connected speech; and there is evidence in many of these of method and consistency; others appear appear to follow no law, but may prove to do so on further investigation.

Certain words in Somali which are indistinguishable in their simple form except by tone are often not used in connected speech in their simple form, but have some inflexion which distinguishes them even if they are pronounced with the wrong tones. Thus a native, while realising that something was wrong, would understand a speaker who pronounced gèeska (the horn) with the same tones as géesta (the direction), since a distinguishing suffix makes the meaning clear. In the same way he would understand 'inanka (the son) if pronounced with the same tones as 'inánta (the daughter), báhalka (the wild beast) if pronounced with the same tone as baháſa (the thing), etc.

STRESS

Stress and pitch are closely connected.

10*

In words of more than one syllable strong stress is given to the syllable pronounced with high level or falling pitch. (The tone-marks in the following examples thus mark strong stress as well as tone.) Examples:

1. Strong stress and high level pitch on the first syllable:

	('inan	son
() {	'ásar	afternoon
	gúrra'	wrong
	qósol	laughter
	qósol bέlεl dágaħ	flame
	dágaħ	stone
()	('inanka	the son
	}'áqalka	the house
	gúrra'a	the wrong
	qósolka	the laughter

2. Strong stress and falling pitch on the first syllable:

 $() -) \begin{cases} k i i \int ka & \text{the bag} \\ l a a n ka & \text{the small tree} \\ r a a d ka & \text{the footmark} \\ g e e s ka & \text{the horn} \\ d a e e g g a & \text{the green grass} \end{cases}$

3. Strong stress and high level pitch on the second syllable:

4. Strong stress and falling pitch on the second syllable:

dab'àal miser traveller slave (m.) Sabiel leopard fandàal spoon Pitàal strength, might dab'àalka the miser sod'àalka the traveller 'addòonka the slave (m.) the leopard the spoon 'itàalka the strength

There is fairly even distribution of speech energy over syllables pronounced with the same level pitch:

daughter heavy sanan noses naago women sagaal nine Cahad Sunday fandaalo spoons Tuesday salaasa Parba'a Wednesday

VOWEL HARMONY

It will have to be decided whether vowel harmony is to be indicated in Somali orthography or not. It may be considered advisable that an inflexional termination which has a fixed grammatical function should have the same orthographical form though it may not have a fixed pronunciation. A Somali speaker would naturally pronounce such terminations correctly whether they were spelt with front or back vowel letters. For example, to him the plural endings are -o, -al, -ar, etc.; and it is perhaps unnecessary, in an orthography for his use, to spell them in more than one way. Similarly with the endings for the definite article, verbal inflexions, etc. Many words also have two phonetic forms. There may be no need for the native to show these in his orthography, since he uses the correct forms naturally in their different settings in connected speech. On the other hand the fact that there are exceptions may make it advisable to represent vowel-harmony forms in orthography.

Neither Isman Dubet nor Haji Farah was aware of his use of vowel harmony forms until his attention was drawn to it; but my disregard of the more obvious of these forms was ot once noticed and condemned. The foreign learner of Somali should therefore try to understand the way in which vowel harmony works; and it would perhaps be helpful in the early stages of his difficulties if he could study phonetic transcriptions in which vowel harmony — at any rate that occurring within words — were shown.

Below are many examples of a simple nature in which vowel harmony is recorded. It will be seen that a suffix is pronounced with a retracting vowel when the root syllable contains the vowels i (short)¹), ε (long and short), a (long and short), a (long and short), a (long and short). These vowels may be called 'retracting' vowels. A suffix is pronounced with a front or central vowel when the root syllable contains the vowels ii^2), e (long and short), e (long and short). These vowels may be called 'fronting' vowels.

EXAMPLES

- a) Terminations for the plural.
 - 1. Retracting vowel in root; termination pronounced with retracting vowel:

hair	pl. timo, tinan
pimple	pl. finan
month	pl. bilo
people	pl. 'ido
spring	pl. 'ilo
wooden pestle	pl. tibo
sky	pl. 'irar
meeting	pl. firar
	pimple month people spring wooden pestle sky

¹⁾ Short i in the root is generally followed by a retracting vowel in the termination; but there are a good many exceptions.

Exceptions		
jid	way, road	nl 22.1
		pl. jided
$di\hbar$	dry bed of river	jidæ s
nirig	baby camel (f.)	pl. diħæ
		pl. nirgæ
εε: εεε	oar	pl. seebab
weel	vessel, pot	pl. weelal
yeel	vessel for water	pl. yeelal
'eel	well	pl. 'eelal
reer	village	pl. reerar
ε : $d\varepsilon\hbar$	centre	pl. dεħo (cf. degæ ears)
aa: gàal	unbeliever	
fandàal	spoon	pl. gaalal, gaalo
bàal	feather	pl. fandaalo
waab	shed, hovel	pl. baalal
laab	chest (body)	pl. waabo
làan	small tree	pl. laabo
laan	branch	pl. laaman
naag	woman	pl. laano, laamo
saan	hide, skin	pl. naago pl. saano, saamo
a: sab	outcast	
san	leather	pl. sabo
bad	sea	pl. sano
laf	bone	pl. bado
		pl. lafo
oo: dòob	youth	pl. doobab
800r	food	pl. sooro
koor	bell on camel	pl. kooro
dool	lateral incisor tooth	pl. doolo
dòol	big cloud	pl. doolal
dabòol	cover	pl. daboolo
o: 'od	voice	pl. 'odad
lo'	herd of cows	pl. lo'o
uu: sùun	leather belt	pl. suuman
kuul	necklace	pl. kuulo
ħùub	film, membrane	pl. ħuubab
sùul	thumb	pl. suulal
u: dun	thread	pl. duno
kur	hill	pl. kuro

²⁾ If the root containing this vowel is closed by a retracting consonant like q, ', the vowel of the suffix is affected. E. g. mliqqa, not mliqqæ (the thread), jli'a, not jli'æ (the three—long-lived Somali tree).

lug	leg, hind leg	pl. lugo
dul	top	pl. dulal (cf. dylel nostrils)

2. Fronting vowel in root; termination pronounced with front or central vowel:

centr	ral vowel:		
ii:	dìig	cock	pl. diigeg
	wiil	boy	pl. wiilel
	jiirr	rat	pl. jiirer, jiiryæ
	dìin	tortoise	pl. diinen
Ex	ception:		
	mìiq	thread	pl. miiqaq
ee:	habèen	night	pl. habeenæ, habeenyæ
	gèel	group of camels	pl. geelɛl
	gèed	single tree	pl. $geed \varepsilon d$
	gees	side	pl. geesæ
e:	deg	ear	pl. degæ
	leg	under part of sheep	pl. legεg
ææ:	rææd	footmark	pl. rææded, ræædyæ
	dææs	shop	pl. dææses, dææsyæ
	fææs	axe	pl. fææses, fææsyæ
	wææħ	quarter	pl. wææħæ, wææħyæ
æ:	'æd	piece of meat	pl. 'ædæ
Ͼ:	'ææg	beacon	pl. 'æægæ
	fææd	top part of forehead	pl. fæædæ
	$d \alpha \alpha g$	pain	pl. dæægæ
œ:	gœb	respectable person	pl. gæbæ, gæbyæ
	hœg	hole	pl. hægæ, hægyææl
	tæg	valley	pl. tægæ, tægyææl
уч:	lỳyl	pearl	pl. lyylel
	rùyg	knee-cap	pl. ryygeg
	lùyf	slice	pl. lyyfef, lyyfyæ
	gỳyd	horse's mane	pl. gyyded
y :	dyl	nostril	pl. dylel
	gyn	part of tree just above	
		ground	pl. gynæ

Should these terminations be spelt -ag, -al, -ar, -an, -o, -ad, the nature of the root vowel being a sufficient indication that the inflexion be pronounced with a front or central vowel? This question must be left unanswered until further materials are available.

b) Terminations denoting the definite article and the demonstrative adjective. (In each case the demonstrative is shown by lengthening the final vowel):

1. Retracting vowel in root; retracting vowel in termination:

réerka the village
réerka that village
firka the meeting
firka that meeting
féedda the rib
náagta the woman
làanka the small tree
réerka the village
bádda the sea
dádka the people
dabòolka the cover
raddòonka the slave (m.)
hórta the beginning
fúudka the soup
búnka the coffee

2. Fronting vowel in root; fronting vowel in termination:

kiifkæ the bagdéægtæ the painkiifkææ that baghéggæ the holegèedkæ the small treegébtæ the respectable persongèedkææ that small treegiyrkæ the marriagegèeskæ the horntiyggæ the robberdégtæ the ear'édkæ the piece of meatrèædkæ the footmarkdé*dæ the age'éægtæ the beacondé*dæ the age

Exceptions1):

mìiqqa the thread jìi'a the tree (long-lived Somali tree) tìiħa the shower

c) Verbal Inflexions.

1st Person Singular, Imperative.

1. Retracting vowel in root; retracting vowel in inflexion:

an2) diro let me send an qódo let me dig an digo let me put on an báado let me search an dilo let me peel an gálo let me go in an diso let me build an túso let me show an hido let me fasten an súgo let me clear an hilo let me cover jar an ráa'o let me accompany (for milk or water) an ſέεgo let me tell an tólo let me sew an hélo let me find an báaqo let me call, signal an 'ésgo let me look an 'úno let me eat an tágo let me go

1) See footnote 2, page 149.

²⁾ Notice an under 1, an under 2. The intonation of these imperatives is (- -).

Exceptions:

æn sídæ let me carry æn rídæ let me throw æn dílæ let me kill

2. Fronting vowel in root; fronting vowel in inflexion:

æn diidæ let me refuse æn dégæ let me alight æn bæædæ let me jump æn sýgæ let me wait æn tæægæ let me raise æn 'æbbæ let me drink an gáada let me reach an jáaga let me remain an dúsa let me stoop an rága let me turn over an túyla let me heap up

2nd Person Plural, Past Tense.

1. Retracting vowel in root; retracting vowel in inflexion1):

wéydin dirteen you sent wéydin digteen you put on wéydin difeen you peeled wéydin disteen you built wéydin hifeen you fastened wéydin hifeen you covered jar wéydin hefeen you found wéydin tegteen you looked wéydin tagteen you went wéydin qoddeen you dug

wéydin baaddeen you searched wéydin gaseen you went in wéydin tusteen you showed wéydin sugteen you cleared wéydin raa'deen you accompanied wéydin seegteen you told wéydin toseen you sewed wéydin baaqdeen you called, signalled wéydin 'unteen you ate wéydin suuhdeen you fainted

Exceptions:

wéydin siddeen you carried wéydin riddeen you threw wéydin difeen you killed

2. Fronting vowel in root; fronting vowel in inflexion:

wéydin diiddeen you refused wéydin degteen you alighted wéydin bææddeen you jumped wéydin sygteen you waited wéydin tæægteen you raised wéydin 'æbteen you drank

wéydin gææddeen you reached wéydin jæægteen you remained wéydin rægteen you turned over wéydin dysteen you stooped wéydin tyy seen you heaped up

1st Person Singular, Past Tense.

1. Retracting vowel in root; retracting vowel in inflexion2):

wàan díray I sent wàan dígay I put on wàan dílay I peeled wàan dísay I built

wàan qóday I dug wàan báaday I searched wàan gálay I went in wàan túsay I showed wàan híday I fastened
wàan hílay I covered jar (for
milk or water)
wàan hélay I found
wàan 'éegay I looked

wàan súgay I cleared
wàan ráa'ay I accompanied
wàan féegay I told
wàan báaqay I called
wàan háday I remained

Exceptions:

wææn sidey I carried wææn ridey I threw wææn diley I killed

2. Fronting vowel in root; fronting vowel in inflexion¹).

wàæn diidey I refused

wàæn bœœdey I jumped

wàæn sigey I waited

wàæn tæægey I raised

vææn jiidey I dragged along

Etc.

Reflexive forms.

Compare the final sound in:

baado look for yourself
'\varepsilon \varepsilon go look for yourself

diso build for yourself fεεdo comb yourself

with that in

'iibsæ buy for yourself dybæ roast for yourself gyyrsæ get married

- d) Examples showing that some words are pronounced differently in different groups. In these examples the root vowel of the verb seems to be the determining factor. In isolation the first word of each group under 1. is pronounced waan, the last doonaa. The first word of each group under 2. is wwwn, the last downww².
 - 1. Retracting vowel in root:

waan diri doonaa I shall send
waan digi doonaa I shall put on
waan dili doonaa I shall peel
waan disi doonaa I shall build
waan hidi doonaa I shall fasten
waan hili doonaa I shall cover jar
(for water or milk)
waan di'i doonaa I shall fall down
waan tiri doonaa I shall wipe
waan tahi doonaa I shall thread
waan baadi doonaa I shall search

¹⁾ Intonation: (- - -).

²⁾ Intonation (\-_).

¹⁾ The difference shown under 1 and 2 in the pronunciation of this termination is quite marked and is indicated throughout in this article. But it may prove adequate in orthography always to write ay.

²⁾ Intonation: (- -_-).

waan gúuri doonaa I shall travel by night
waan 'úni doonaa I shall eat
waan gúri doonaa I shall pick up
waan kúfi doonaa I shall fall (while walking or
running)
waan rúħi doonaa I shall shake
waan súgi doonaa I shall clear

2. Fronting vowel in root:

wææn diidi dæænææ I shall refuse wææn héli dæænææ I shall find wææn dégi dæænææ I shall get down wææn tégi dæænææ I shall go wææn séegi dæænææ I shall miss wææn léefi dæænææ I shall lick wææn wææyi dæænææ I shall not find wææn 'ábbi dæænææ I shall drink wææn ræægi dæænææ I shall be late wææn gæædi dæænææ I shall reach wææn tæægi dæænææ I shall raise wææn réeri dæænææ I shall run wææn téli dæænææ I shall sew wææn mægi dæænææ I shall agree wææn gýyri dæænææ I shall shift wææn týyli dæænææ I shall heap up wææn dýsi dæænææ I shall stoop wææn sýgi dæænææ I shall wait

e) Other examples of words which have more than one pronounciation.

sæw. The particle sæw (expressing doubt) is pronounced sæw in isolation and also in groups where the root of the verb contains a fronting vowel. It is pronounced sow in groups where the root of the verb contains a retracting vowel¹).

1. sàw diidee I may perhaps refuse sàw báædee I may perhaps jump sàw sýgee I may perhaps wait sàw táægee I may perhaps raise

etc.

2. sòw dílee I may perhaps peel sòw tíree I may perhaps wipe sòw dísee I may perhaps build sòw hílee I may perhaps cover jar sòw 'éegee I may perhaps look

sòw tágεε I may perhaps go sòw qódεε I may perhaps dig sòw báadεε I may perhaps search sòw súgεε I may perhaps clear

Exceptions:

sœw dílee I may perhaps kill sœw sídee I may perhaps carry sœw rídee I may perhaps throw

la. The particle la denoting passive voice, is pronounced la in isolation and also before verbs containing retracting vowels. Before verbs with fronting vowels (and y) it is ε -like:

wáħa la 'arkay the thing was seen.
 wáħa la maqlay the thing was heard.
 béɛrta la gú ħagaafo the field (with him) is ploughed.
 (It is also possible to say lu gu in this case).
 'áawska la gúu kɛɛno the grass is brought to you.
 (lu gúu is also possible).

wáħa lε yidi it was said.....
 lε yeed someone called.

 $B\varepsilon rb\varepsilon r\acute{a}$ $l\varepsilon$ yimid someone came to Berbera. Examples showing the fronting and closing influence of y. Compare the following:

há timaado let her come.
há yimaado (really há yimæædæ) let him come.

wéydin timaaddεεn you (pl.) came. wéy yimaadεεn (really yimæædeen) they came.

kólkaasùu waráaba 'arkay..... then the hyena saw..... kólkaasùu yidi..... (really kólkaasùu) then he said.....

'uu kú 'arkay..... he saw there.....
'uu kú yidi..... (really $k\acute{\eta}$) he said to him.....

óo dan and all..... óo yidi (really éæ) and he said.....

Bεrbεrá la yimid (really lε) someone came to Berbera. nín Bεrbεrá yimid (really Βεrbεrέ) a man came to Berbera.

márkaasàa nínkii lahaa ka'ay then the owner got up.
márkaasàa nínkii lahaa yidi (really lahææ) then the owner said.....

'inántu waa dèertahay the daughter is tall.
'inanku waa dèeryahay (really dèeryæhæy) the son is tall.
(The sounds represented here by $\varepsilon\varepsilon$ are also different, that preceding y being closer than that preceding t).

¹⁾ Intonation (-).

Many examples of the fronting and closing influence of y are to be found in verbal endings. For example, the endings ey and o when preceded by y, especially when the root has a fronting vowel, are very close, and in the case of o fronted.

Examples:

waan 'éegayyey I was looking 'inaan 'éegayyo that I may see 'inaan sýgayyo that I may wait (The final vowel is almost q.)

The sound w also has a closing influence on neighbouring vowels.

CONNECTED TEXTS.

In the following connected texts an attempt has been made to record the most important cases of vowel harmony which occur. Where these are shown, the forms which would be adequate for a native or for a reader familiar with the working of vowel harmony are given in footnotes.

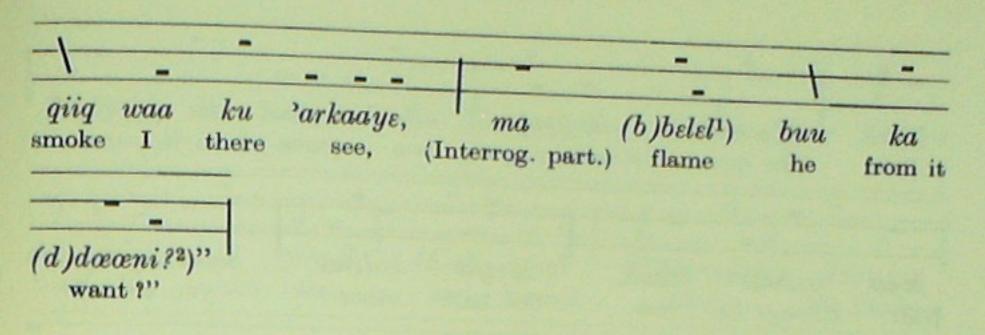
Only the most noticeable initial glottal plosives are recorded.

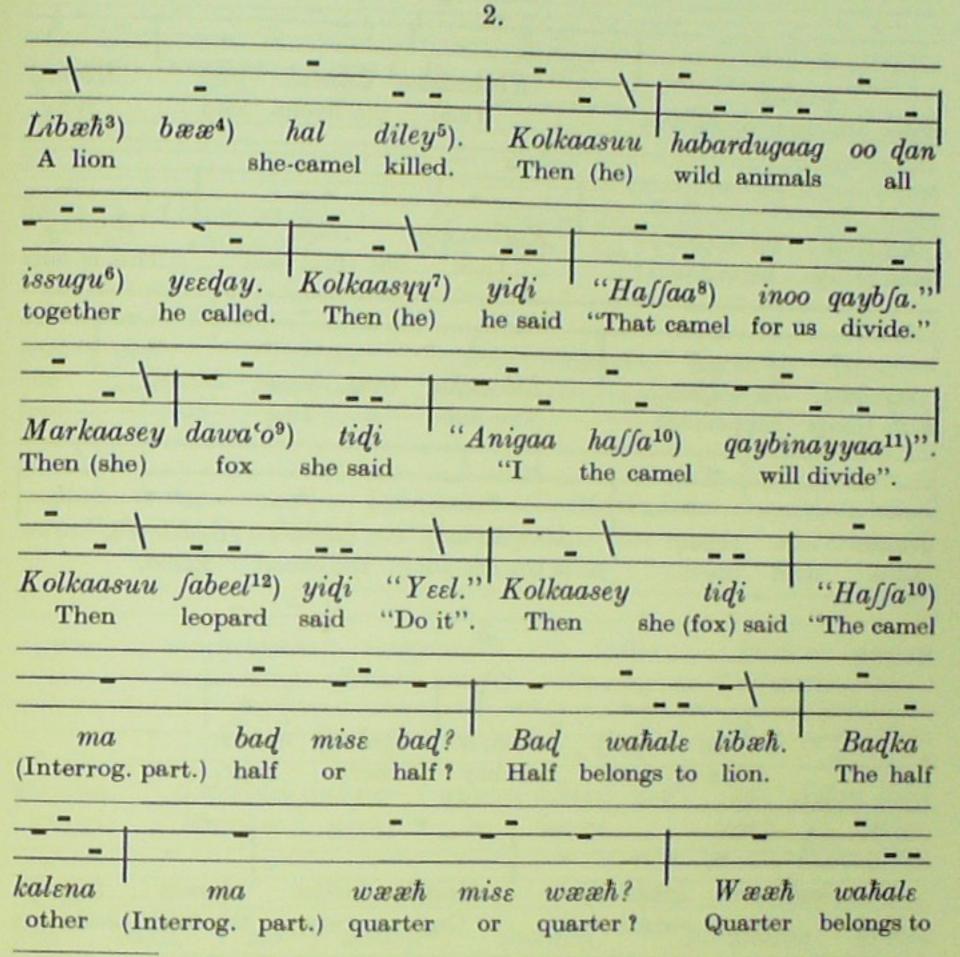
The pitch notation (which is only tentative) gives some idea of the intonation used by the speaker.

The translations were difficult to prepare as the speaker knew little English.



¹⁾ baa.





1) Double b not significant. 2) Double d not significant.

4) baa. The tone falls in slow speech.

6) Probably not necessary to write double s.

7) kolkaasuu.

9) da'awo in the speech of Hargeisa.

10) Double f not essential.

11) Final vowel not very long.

12) Sabeel.

²⁾ Berbera.

³⁾ Final vowel not very long.

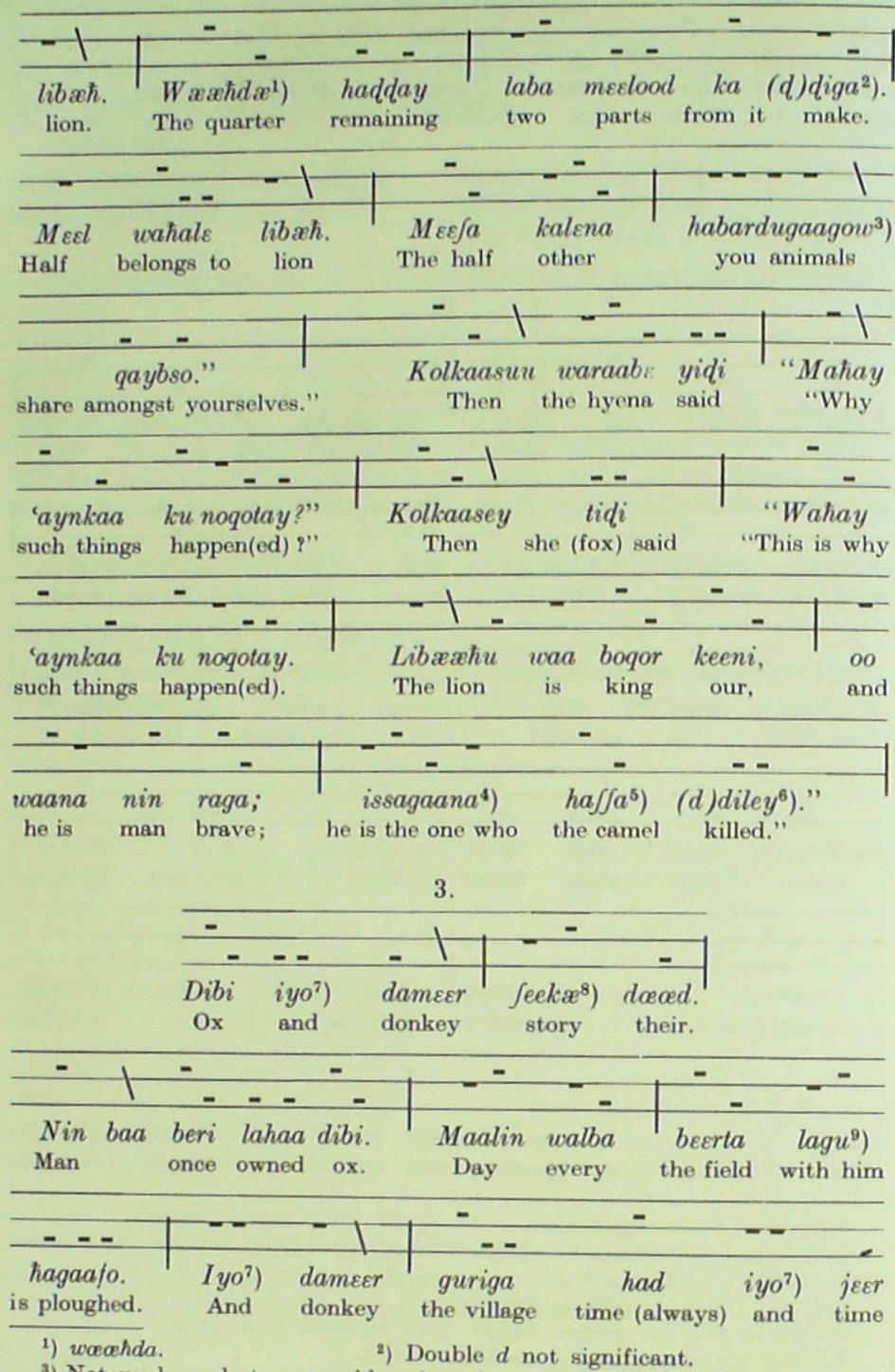
⁴⁾ la.

^{5) 00.}

³⁾ This should perhaps be written libææh throughout, though the æ is not long, except in libææhu.

⁵⁾ Should this be written dilay? (See footnote 1, p. 154).

⁸⁾ Double f not essential. Single f was accepted.



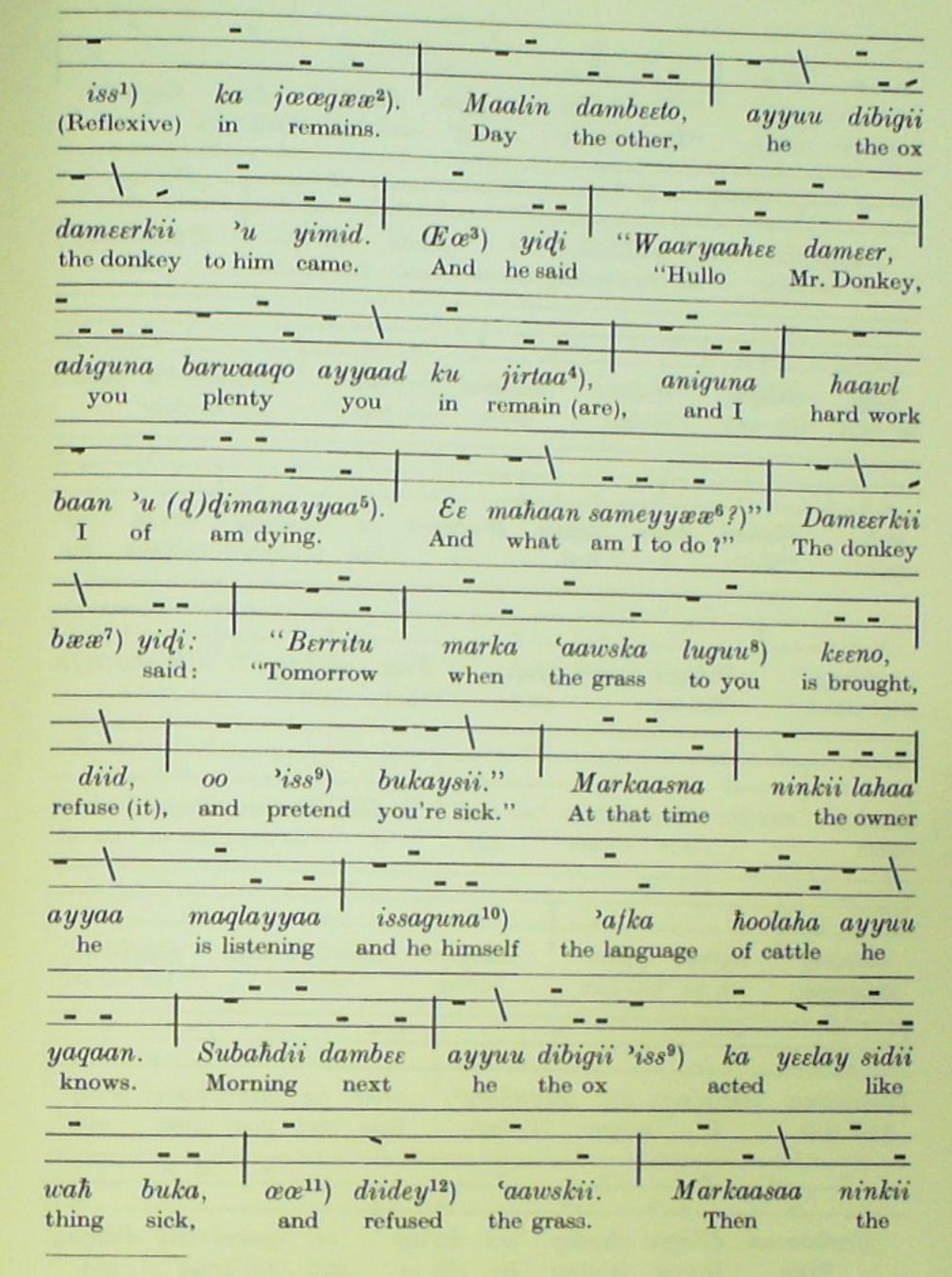
³⁾ Not æw here; but æw would perhaps be an adequate way of writing this 4) Single s was accepted. 5) Double f not essential. 6) Double d not significant. Should the word be written dilay? (See foot-

note 1, page 154.)

7) Final vowel weak and indefinite.

8) Seeka.

9) Also lugu.



1) Double s not essential.

4) Final vowel not very long.

6) sameyyaa. Final vowel not very long.

11) 00.

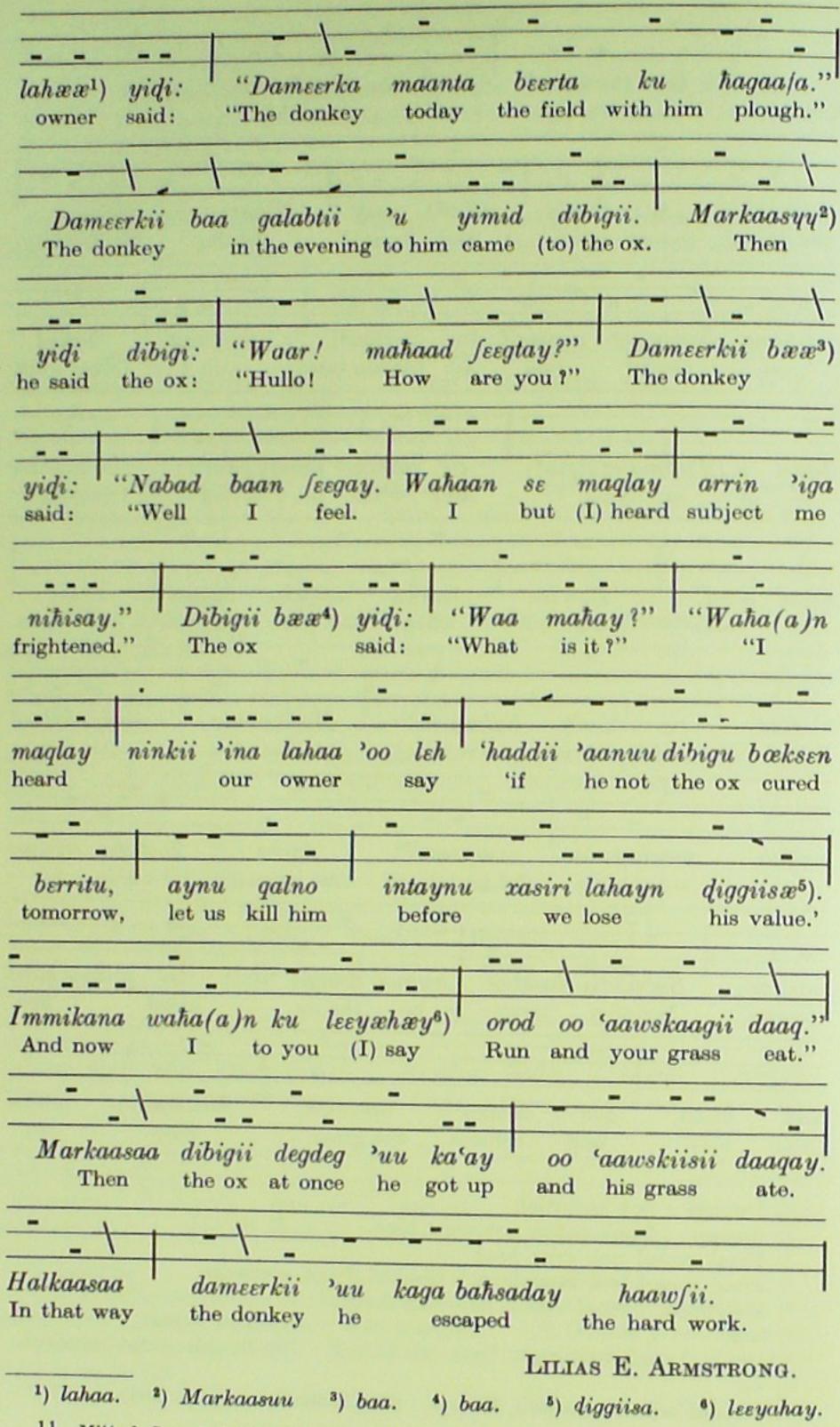
²⁾ jæægaa. Final vowel not very long. 3) 00.

⁵⁾ Final vowel not very long. Double d not essential.

⁷⁾ baa. 9) Double s not essential.

⁸⁾ Also laguu. 10) Double s not essential.

¹²⁾ Should this be written diiday? (See footnote 1, page 154).



¹¹ Mitt. d. Sem. f. Orient. Sprachen. 1934.