FOREWORD

Enūma Anu Enlil (EAE) is the name by which the series of celestial omens was known to the Babylonians. The name, as usual, is taken from the first words of the series' incipit. Scholars engaged in compiling, copying, and annotating the series were each called *tupšar Enūma Anu Enlil*, "scribe of Enūma Anu Enlil," and so, eventually, were the astronomers of Scleucid Babylonia. The canonical corpus of celestial omens was divided by these scribes into about seventy tablets. The first fifty, dealing with the moon, the sun, and meteorological phenomena, were organized—but not edited—by E. Weidner, from the cuneiform texts in the British Museum published by Ch. Virolleaud in autograph copies, with transliterations but without translation, from 1908 to 1912, and from texts in other museums.

The last twenty-odd tablets contain omens derived from the movements of the planets and the stars, and for these not even a preliminary organization exists. It is, however, precisely these omens that are most significant for students of the history of science.

Therefore, at the suggestion of Professors Neugebauer and Sachs, we are beginning the publication of the series EAE with the tablets that contain the planetary omens, that is, Tablets 50 and following, in a series of fascicles. Each fascicle will contain one or more tablets whose serial number is known, or, failing this, whose subject matter can be subsumed under some general heading. All fragments known to be part of the canonical series will be used to reconstruct the text; other fragments and scholia will appear as appendices to the canonical text. Each fascicle will also contain a glossary of technical terms (except for the present fascicle) and a list of apodoses.

First to be published is the present edition of Tablet 63, the "Venus Tablet." It is presented first because of its intrinsic interest for historians concerned with the chronology of the First Babylonian Dynasty, and also for the practical reason that it presents the fewest philological problems in its reconstruction (no overlap with any other tablet of EAE is possible) and its terminology (see Introduction p. 7). It will be followed by the edition of Tablets 50-52. Texts not previously published in autograph copy will be presented in the form of photographs on microfiche, as soon as enough photographs accumulate to fill such a microfiche.

The various fascicles containing one or more tablets of the series will be published as parts of individual volumes of the series *Bibliotheca Mesopotamica*. To facilitate the eventual use of the volumes as complete units, page numeration according to volume is given in square brackets at the bottom of each page—e.g. [BM 2,1] meaning volume 2 of BM, page 1. A separate title page and table of contents will be provided upon completion of each volume.

It is a pleasure to acknowledge a grant from the John Simon Guggenheim Memorial foundation for this project, which made possible collations of tablets in the British Museum.

¹A. L. Oppenheim, "Divination and Celestial Observation in the Last Assyrian Empire," Centaurus 14 (1969), 99f.;

O. Neugebauer, Astronomical Cuneiform Texts (London, 1955) 13f.

²E. Weidner, "Die astrologische Serie Enûma Anu Enlil," Archiv für Orientforschung 14 (1941-1944), 172-195, 308-318; ibid. 17 (1954-1956), 71-89; ibid. 22 (1968-1969) 65-75.

³Ch. Virolleaud, L'Astrologie Chaldéenne, Le Livre intitulé "enuma (Anu) iluBêl," fascicles 1-8 (Paris, 1908-1909); idem., Supplément (Paris, 1910); Second Supplément (Paris, 1912).

The contributions of each author will be identified when these can be separated conveniently. In most cases, however, the textual interpretation relies on knowledge of both astronomy and of the texts pertaining to the history of astronomy that David Pingree is providing. This collaboration should result eventually not only in the edition of the Babylonian corpus, but also in a critical evaluation of it for the history of astronomy.

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PHILOLOGICAL INTRODUCTION

The sources for Tablet 63 of the Series Enūma Anu Enlil, the so-called Venus Tablets of Ammisaduga, have been increased from the seven known to Langdon and Fotheringham² to twenty. With the exception of one text (from Assur?) in the Staatliche Museen (Berlin), published by René Labat, MIO 5 322 and pl. xix (=p. 344), and identified by me as a "Venus Tablet," all new sources are from the collections of the British Museum. Three fragments (E, K, N; see Table Ia) were previously published in LBAT, and identified by A. Sachs in the introductory catalogue to that volume. The others have been identified by me upon inspection of the omen fragments characterized as "astrological" in Bezold's Catalogue of the Cuneiform Tablets in the Kouvunjik Collection of the British Museum and from the list of Enuma Anu Eulil type material in the British Museum, compiled and generously put at my disposal by A. Sachs. Therefore, it is eminently possible that further fragments may come to light among unpublished texts in other museums, and even in the British Museum itself. This fact is stressed here because, as will become clear from the presentation of the material, all but one of the twenty pieces present the material in such a uniform way that probably no more than two recensions-alike but for the fact that one includes omens 38-59, and the other omits them and adds an extra omen (60) have to be reconstructed from these late manuscripts, even though the history of the canonical recension may be a complex one, as set forth by David Pingree on pp. 15 ff.

The fifty-nine omens of this tablet, as noted by previous editors and commentators, fall into four sections. Sections I (omens 1-21) and III (omens 34-37) deal with pairs of last and first visibilities of Venus; they are separated by section II (omens 22-33). Most of the omens in I and III are repeated in IV (omens 38-59) wherein they are rearranged in the order of the months. Section II also was excerpted in the series Iqqur ipus where it more properly belongs; see p. 10.

On the assumption that several fragments, though not direct joins, belong to the same tablet (A and M; F and H; L, P, and Q; T and U), the number of exemplars attested may be reduced from twenty to fifteen. Although none of the sources is completely preserved, certain conclusions can be drawn about the content and arrangement of the various exemplars (see Table 1b).

- 1. All four sections 1-IV were contained in exemplar A (+) M and probably in J. If L (+) P (+) Q are parts of one tablet, that exemplar contained sections II-IV, and hence probably 1-IV; if G belongs to the same tablet, it certainly contained I-IV.
- 2. Sections I-III only were contained in C.
- 3. Sections I-III, plus omen 60, were contained in B, and probably also in R and N. In N, only III and omen 60 are preserved; in R, the subscript preceding omen 60 and omen 60.
- 4. Exemplar T (+) U contained only section IV, and may represent the second tablet of a recension in which I-IV were written on two tablets, and therefore may be the continuation of an exemplar such as C (or of C itself).

¹The number 63 is based on one system of numbering; in another system of scrialization, the number 63 is given to the tablet we shall call 64.

²See Bibliography.

- 5. The other sources are so fragmentary that it cannot be established whether they belong to one of the two basic type exemplars, namely manuscript tradition x-above (1) and possibly above (2) plus (4)—and y-above (3). Sections I and II are attested in F (+) H and probably D; only section I in G: only IV in K, O, and V; only II in L which, therefore, may belong to *lqqur īpuš* (see below).
- 6. The placement of K is not certain; E cannot be placed, and is given in separate transliteration on p. 64.

Note that V (an Assur text?) is the only manuscript which uses MUL Dil-bat for Venus instead of Ninsianna (all other manuscripts).

Each section is delimited not only by its content and, for section IV, also its form, but by a subscript. We have identified eight subscripts, $S_1 - S_8$, though some of these may have to be collapsed.

The first subscript, S_1 , occurs after section 1; unfortunately, it is illegible in C, and in H-which sets off this section from the next by a double ruling-only the middle portion of the subscript line is preserved, and this portion is blank, so that the nature of S_1 is unknown. (However, in C at least, the subscript was not of the form n kişr \bar{u} , because the traces do not allow such an interpretation.)

S₂, the subscript after omen 33, is attested in B, C, D, (A +) M, and N, and reads as follows: 12 kiṣrū tāmurātu³ ša Ninsianna GABA.RI Bābili 'twelve omens, visibilities³ of Venus, copy of (a text from) Babylon'.

Section III is followed in C by a subscript S_3 which may represent the subscript to Tablet 63; of it only the end, [...] $k\bar{i}$ $p\bar{i}$ labirisu '[...] according to its original', is preserved. In N, a subscript of two lines, S_4 , occurs; the first line is fragmentary and what is preserved is not intelligible; the second line in its preserved part has [...] TA kiṣri '[...] from the omen(s)'. A subscript in both P and K, that we call S_5 , preceded the next section, IV; what preceded it is not preserved in P, and cannot be identified as omen 37 in K. Probably it is to be restored as [4 kiṣrū ša] Ninsianna aḥūtu 'four extraneous omens about Venus'; in P, only the word Ninsianna is preserved.

 S_6 , the subscript that concludes Tablet 63 in A and J, is identical in its preserved portion to S_5 , and is probably to be restored as [21 kiṣrū ša] Ninsianna aḥūtu. In R, only the second half of the subscript is preserved: [...kiṣ]ri tajārta ina libbi tšū; this subscript, S_7 , may be restored from S_8 ; see below, and the interpretation proposed on p. 9. In B, this subscript takes up two lines, but the first line is broken with the exception of the first two signs. The second sign may be ki, permitting a restoration ki[ṣru]; the first sign is partly broken, and if it is a numeral it can be only the figure 4. Therefore, we have concluded that this subscript is probably identical with S_4 and S_5 , and that manuscripts B and R, and probably N, did not contain section IV.

The additional omen 60 that follows S_7 in B and R, and probably also in N, is a repetition of omen 17 (also appearing as omen 50 in section IV), but correcting the erroneous eastern setting of omen 17 to a western setting.

This omen is again followed by a subscript in B and R, S_8 . S_8 is better preserved than S_7 , and may be used for the restoration of S_7 : 2 kiṣrū ša Ninsianna aḥūtu ultu libbi kiṣri tajārātu ina libbi išū. Its beginning is preserved only in B, and the figure 2 is beyond doubt, in spite of the fact that the section preceding S_8 (the section between S_7 and S_8) contains only one omen, not two.

³Collation shows a clear -mu- as the second sign in this word, thus excluding the reading TA gaba-ra-tum retained by Labat, Calendrier p. 199, in spite of the objections of Langdon, The Venus Tablets, p. 13 note 1. It is assumed here that $t\bar{a}$ muratu is a variant of $t\bar{a}$ maratu, although such a variant form is not attested elsewhere, because the twelve omens preceding refer to risings (IGI.10U₈ = $t\bar{a}$ martu) of Venus. Professor Borger (orally) suggested that the sign MU may stand for ia_5 so that this subscript too would contain the term $taj\bar{a}$ ratue, for which see note 5.

Subscripts S₇ and S₈ employ a terminology not otherwise attested, and their interpretation is uncertain. They may be translated: 'n extraneous omens about Venus, from an omen (or: the omens); they have returns therein'. The word translated as 'omen' is *kiṣru*; it was translated as 'section (of a text)' in CAD K 441a sub 8a, but the references cited there could also be interpreted as 'omens'; the translation 'omens' is chosen here because the subscript to the twelve omens of section II uses the same term.

The word translated as 'return' is tajārtu (plural: tajārātu). It is normally used (in the singular) for the 'return (march)' from a campaign in Neo-Assyrian annals and, in transferred meaning, for 'pardon';⁴ only a few atypical occurrences⁵ suggest the meaning 'repetition' that seems to be required in the subscripts.

Source B also gives the total number of omens on the tablet in the colophon. The number, slightly broken, may be either 34 or 37. The number 34 would account for the total of sections I and II (21 + 12) and the added omen 60; the number 37 would account for all omens of sections I, II, and III (21 + 12 + 4).

The basis for the attribution of the eight-year cycles of Venus of Tablet 63 to the reign of Ammişaduqa, and specifically of the first such cycle (omens I-10) to a Venus-cycle in the first eight years of his reign, is of course the name of year 8 of Ammişaduqa⁶ that follows the first ten omens. However, the tenth omen, the last of the cycle, is incomplete. In fact, it consists solely of the statement 'Venus disappeared in the east on the 25th of month XII'. Thus, it is not an omen, because it lacks an apodosis; moreover, it also differs from omens I-9 (and 11-20 of the "second cycle") because it lacks the period of invisibility and the date of the next first visibility. The date of the disappearance of Venus is stated as an event. We know that ominous occurrences that were observed in an extispicy, namely markings and features on the liver and lungs of the lamb, were reported in the Old Babylonian period.⁷ All those reports that are dated date to the reigns of the last two kings of the First Dynasty of Babylon, Ammişaduqa (fourteen reports) and Samsuditana (two).⁸ It is therefore our belief that omen 10 was not shortened from a complete omen in order to find space for the name of the year, but that it was originally a report of an observation of the last visibility of Venus, followed by the date, as in the case of the reports of haruspices.

It should be noted that the fragmentary line [. . .] KÙ.GI. ga.ke₄, that is, the end of the year name of Ammisaduqa 8, occurs on another fragment of celestial omens, Sm. 1057:8'.

With the exception of omen 10, the omens of sections 1, 111, and 1V, and omen 60 all follow the same pattern: In month MN, day n, Venus disappeared in the east/west; it remains invisible for n days, and became visible in month MN₂, day n, in the west/east: apodosis. While the verbs *itbal* 'disappeared' and *innamir* 'became visible' may be in the past tense because of the general style of omens, according to which the introductory šumma ('if') governs a grammatical preterite, it is to be noted that the verb 'remains invisible' nonetheless is in the present tense—uhharam(-ma)—in all sources which use a syllabic spelling in

⁴Note that in CT 28 29 r. 6 ta-a-a-ár-tum is not a gloss, as assumed in Kraus Texte 33 Index s.v., but is the apodosis, 'pardon', of the omen.

⁵These atypical occurrences are of three types:

a) referring to a feature or deformation of the gall bladder observed in extispicy: summa martum ta-a-a-ra-tim isû YOS 10 31 iv 7-9; summa martu imitta u sumēla ta-a-a-ra-ti itaddât(ŠUB.MEŠ-át) CT 28 48 K.182 + r. 7.

c) in EAE fragments: [... ta-a-a-â]r-tu i-šu-û DÙ-ma (=kalama) šá E-[ú...] (=ša iqbû) dUDU.IDIM.MEŠ DÙ-ma (=kalama) ana dUTU.ŠÚ.A ta-a-a-ár-tú ir-[šu-ú] (commentary on [DIŠ MUL.MEŠ ana] dUTU.È nap-ḥu-ni 'if the stars rise toward east') Rm. 932:4'-6', cf. (in broken context) [... ta-a-a-â]r-tum i-šu-u ka-la-ma la ka-l[a-ma ...] ibid. 3'.

⁶See Ungnad, R1A 2 190 no. 256.

For a convenient survey, see Goetze, YOS 10 pp. 2 and 4, and JCS 11 89ff., also Nougayrol, JCS 21 219ff.

⁸Nougayrol, JCS 21 220 n. 3.

sections I and III and in omen 60, but in the preterite—uḥḥiram(-ma) in section IV. The logographic spelling ZAL may represent either the preterite uḥḥiram(-ma) or the present uḥḥaram(-ma).

The omens of section II follow a different pattern: they begin not with the disappearance, but with the appearance of Venus. After the introductory 'In MN, day n, Venus appeared in the east/west', there follows A(podosis)₁. Then comes an amplification or explanation: 'It remains present in the east/west until month MN₂, day n; it disappears in MN₂, day n+1, and remains invisible for three months/seven days: in MN₃, day n (= MN₂, day n+1 plus three months or seven days), it rises in the west/east: A(podosis)₂'. The second section may be called an amplification or explanation because the verb forms in this section are always in the present, and are all followed by the particle -ma. This verb form is characteristic of the explanations given in commented texts. Commented texts are of the pattern protasis - apodosis - commentary, and this is the pattern found in the omens of section II, with the difference only that in these omens a second apodosis follows. Not only is it unique that two apodoses occur in two different parts of an omen; the two apodoses are dissimilar, and sometimes contradictory—an occurrence found, to be sure, in other omen series, but with the specification that the second apodosis (which always immediately follows the first) is a variant from another source.

The structure of these omens of section II, and their relation to Tablet 63, remains unique. As mentioned briefly on p. 3, this section was excerpted in at least some recensions of the series Iggur īpuš, 9 a series deriving omens from various activities undertaken by a person (in some recensions by the king) in the twelve months of the year, with the day of the month remaining unspecified. Some tablets of Iggur īpuš which are organized by months (Labat's Séries Mensuelles) list as the last of the omens derived from celestial phenomena moon, sun, Venus, meteorological and atmospheric phenomena an omen from the rising of Venus which is one of omens 22-33. (For months I, III, IX, and X see Labat, Calendrier p. 199; for month VI, ibid. p. 259.) A further, unpublished, fragment of such a monthly section of *lagur īpu*š for month II, K. 7939, also contains the omen from Venus' rising (= EAE 63 omen 23); it is possible that sources for the other months also contained this omen. However, in the first part of *Iggur īpuš*, in which a paragraph is devoted to each activity, no separate paragraph for the risings of Venus through the twelve months has so far been attested, but such a paragraph was included by Labat as § 104A of *Iggur Tpuš* because of the occurrence of such omens in the monthly series. One of the texts which at first was taken to belong to Tablet 63, K.3170 + 11719 + 14551, turned out to be part of *Iggur īpuš*, because, while it has omens 22-27 on the reverse, it has other *Iqqur īpuš* paragraphs on the obverse. The pertinent oniens from this text are edited in Appendix A. Source L of Tablet 63, K.12344 + 12758, with omens 25-29, may also be part of *Iggur ipus* rather than of Tablet 63.

This fact raises anew the question posed by Labat, op. cit. pp. 9f., whether *Iqqur īpuš* borrowed from other omen series, or vice versa. As far as planetary omens are concerned, Labat included five paragraphs on Venus (§§ 82-86), and on pp. 170f. note 6 mentions the possibility that two paragraphs concerning Jupiter and one concerning dUDU.IDIM of EAE may have been incorporated in some editions of *Iqqur īpuš*. Without attempting to solve the general problem of the relationship of *Iqqur īpuš* to other omen texts, we would point out that section II of EAE 63 (omens 22-33) fits into the monthly schema which forms the structure of *Iqqur īpuš*. Section IV, in which omens 1-21 and 34-37 are rearranged in the order of the months, does not fit into the schema of *Iqqur īpuš* because most months occur more than once in the sequence.

⁹Edited by René Labat, Un Calendrier babylonien des travaux, des signes, et des mois (Séries Iqqur īpuš) (Paris, 1965).

^{10 § § 41&#}x27; and 66' form an exception; they refer to any month of the year, with the day of the month from 1 to 30-being the variable.

Table Ia. Sources.

A	K.2321 + 3032	Neobabylonian. AAT 46; ACh Ištar 12, 15; Langdon-Fotheringham pl. 5-6. Omens 1-14; break; 45-59; S ₆ ; end (colophon).
В	W 1924.802	Neobabylonian. Langdon-Fotheringham pl. 3-4. Omens f-11; break; S_2 ; 34-37; S_7 ; 60; S_8 ; end (colophon). Found at Kish in 1924.
С	K.160	3R 63; ACh Ištar 12-14; Langdon-Fotheringham pl. 1-2. Photo: ACh frontispiece. Omens 8-21; S_1 ; 22-33; S_2 ; 34-37; S_3 ; break.
D	K.7225	Photo. Column i: omens 7-12; break. Column ii: broken, possibly S ₂ .
E	BM 41498	Neobabylonian. LBAT 1562. See Appendix B.
F	BM 37010	Neobabylonian. Omens 12-15; break.
G	Rm. 2,531	Langdon-Fotheringham pl. 3. Omens 15-20; break.
Н	BM 36758 + 37496	Neobabylonian. Photo of BM 36758. Omens 19-21; S ₁ ; 22-27; break.
J	BM 36395	Neobabylonian. Photo. Omens 3-15; break; 54-59; S ₆ ; end (colophon).
K	BM 34227 + 42033	Neobabylonian. LBAT 1561 + 1560. Two unidentified omens (see Appendix C); S ₅ ; omens 38-42; break.
L	K.12344 + 12758	Omens 25-29; break.
M	K.3105	Neobabylonian. Photo. Omens 27-33; S ₂ ; 34-36; break.
N	BM 41688	Neobabylonian. LBAT 1563. S ₂ ; omens 34-37; S ₄ ; 60 ² ; break.
O	BM 37121 + 37432	Neobabylonian. Omens 53-56; break.
P	K.7072	ACh Supp. 42. S ₅ ; omens 38-40; break.
Q	Sm. 174	Babyloniaca 3 285; Langdon-Fotheringham pl. 6. Omens 45-48; break.
R	K.7090	Photo. S ₇ ; 60; S ₈ ; end (colophon).
T	K.5963 + Rm. 134	ACh Supp. 41 (Rm. 134 only). Omens 38-41; break.
U	K.12186	Omens 56-58; break.
V	VAT 11253	MIO 5 pl. 19 (= p. 344). Omens 41-45; break; 57-59; break.

A and M may be parts of the same tablet.

F and H may be parts of the same tablet.

L, P, and Q may be parts of the same tablet.

T and U may be parts of the same tablet.

V has been collated by Dr. Liane Jakob-Rost. All other sources have been collated by E. Reiner; in addition, numbers on all British Museum tablets (i.e., all sources except B and V) have also been checked by Asgar Aaboe.

Table Ib. Arrangement of Sources According to Manuscript Traditions.

Manuscript Families	Sources					Sections						
		I		11		III		IV				
x	A (+) M J (G +)L (+) P(+)Q K	1 - (21); (1) - (21); (1) - (21); [[(22) - 33: (22) - (33):	S ₂ ;	34 - (37);]	[] S ₅ : S ₅ :	(38) - 59; (38) - 59; 38 - (59); 38 - (59)	s ₆ : s ₆ :			
y	B R N	1 - (21): [[]		34 - 37 34 - 37;	- S ₄ ;		_] -	S ₇ : S ₇ : -	60: 60: 60:	S ₈
z	C (+) T + U	(1) - 21;	S ₁ ;	22 - 33	S_2 ;	34 - 37;	S ₃	38 - (59)	-		_	

Note. Parentheses around the first or last number in the columns under sections I-IV indicate that the first or last omens of the section are not preserved, but the section is attested in the manuscript through some of the omens.

Table II. Apodoses.

The following is a list of the apodoses attested in Tablet 63. They are arranged in alphabetical order, and followed by the serial number of the omen or omens to which they belong. The letters a and b after numbers 22-33 refer to A_1 and A_2 of these omens respectively.

1.	ebūr māti iššir 'the harvest of the land will prosper'	2, 6, 12, 15, 30b, 31a, 32ab, [41], 52, 53, 54, 55
2.	ebūr māti iššir libbi māti iṭâb (= 1 + 6)	23b, 27a, 28b, 31b
3.	ebūr ruṭibti iššir libbi māti iṭâb 'the harvest of the irrigated land will prosper, the land will be happy'	21
4.	lušahhi še'i u tibni ina māti ibašši 'there will be scarcity of barley and straw in the land'	30a
5.	luišalihi še'i u tibni ina māti ibašši ubbutu iššakkan 'there will be scarcity of barley and straw in the land, there will be '11	7, 51
6.	libbi māti iţâb 'the land will be happy'	4, 13, 14, 35, [38], [42]. 49
7.	māta dannatu işabbat 'hard times will befall the land'	29a, 33b
8.	mātu ana dannati ipalīļur 'the land will assemble in the fortresses'	30b variant from <i>Iqqur īpuš</i>
9.	mērešu iššir 'the arable land will prosper'	34 variant
10.	miqitti ummāni matti 'downfall of a large army'	24a, 58
11.	miqitti ummān-manda: miqitti [] 'downfall of the Manda-troops, variant: downfall of [a large army?]'	20
12.	MU SAL ina māti rūqti ibašši: ina É.GAL GU.LA 'there will be in a distant land, variant: in the large? palace'	34
13.	nagbū ippaṭṭaru Adad zunnēšu Ea nagbēšu ubbala šarru ana šarri salīma išappar 'springs will open'. Adad will bring his rains, Ea his floods, king will send messages of reconciliation to king'	1, 57 (omitting nagbū ippaṭṭaru)
14.	nukurātu ina māti ibaššā 'there will be hostilities in the land'	23a, 24b, 25a, 27b
15.	nukurātu ina māti ibaššā ebūru išššir 'there will be hostilities in the land, the harvest will prosper'	3, 48
16.	nukurātu ina māti ibaššā ebūr māti iššir (= 14 + 1)	26b, 28a, 29b, 36, 39
17.	ruțibtu iššir libbi măti ițâb (cf. 3)	59 second part
18.	šarrāni [] 'kings []'	33a
19.	šarru ana šarri nukurta išappar 'king will send messages of hostility to king'	22b, 25b
20.	šarru ana šarri salīma išappar 'king will send messages of reconciliation to king'	11, 21 variant, 59 first part

¹¹The reading *ubbutu* has been chosen instead of *arbūtu*, partly because the apodoses differ from those in which *arbūtu* occurs, and partly because the spelling *ub-bu-tu* occurs on an unpublished Old Babylonian tablet of EAE in a similar apodosis. The spelling *ub-bu-tu* may stand for *ubbuṭu* 'famine', while *ubbutu* is explained by *šalputtu* 'desecration' in Izbu Comm. 94.

21.	šarru ana šarri salta išappar 'king will send messages of war to king'	11 variant, 37, 56
22.	urubātu ina māti ibaššā 'there will be mourning in the land'	22a
23.	zunnū ina māti ibaššū ubbutu iššakkan 'there will be rains in the land, there will be '	8, 9, 17, 18, 46, 47, 50, 60
24.	zunnū ina šamê ibaššû ubbutu ibašši 'there will be rains from the sky, there will be '	26a
25.	zumnā ina šamê mīlā ina nagbī ibaššû 'there will be rains from the sky, floods from the springs'	19
26.	zunnū ina šamė [] ebūr māti iššir (= 19° + 1)	45
27.	zunnū u mīlū ibaššū ebūr māti iššir 'there will be rains and floods, the harvest of the land will prosper'	5, 40

THE ASTRONOMICAL AND TEXTUAL PROBLEMS

(By David Pingree)

Astronomical Data in the Protases of Omens 1-21, 34-37, and 38-60.

In one synodic period of approximately 584 days the planet Venus makes one rotation about the Sun. (See Figure 1 for a sketch of the orbits of Venus and of the Earth around the Sun). If we consider a rotation to begin with the planet's last visibility in the East (Σ), it will then be approaching superior conjunction with the Sun and its furthest distance from the Earth. Between last visibility in the East (Σ) and first visibility in the West (Ξ) it will be invisible for two months and some days. After its first visibility in the West it remains visible for eight months and some days before its last visibility in the West (Ω) occurs, and it approaches inferior conjunction with the Sun. It remains invisible for as little as three days in the winter, for as much as two weeks and a few days in the summer, before its first visibility in the East (Γ) occurs. Then it is again visible for eight months and some days before its last visibility in the East (Γ). Of course, observations of "last visibilities" can occur before the expected dates and those of "first visibilities" after the expected dates; but if a watch were kept every night, such variations because of observational difficulties should not have expanded the periods of invisibility or contracted those of visibility by more than a few days.

As has been pointed out in the introduction, the text consists of four sections, of which section IV is a monthly rearrangement of sections I and III; omen 60 is a corrected form of omen 17. The identifications of these omens are given in Table III.

Table III. Correlations of Omens 38-60 with 1-21 and 34-37.

Note. The number on the left refers to the omens in section IV, the number on the right to the omens in sections I and III. Where the identification is confirmed by the preserved apodoses (see Table II), an asterisk is added.

*38 = 14	44 = 9	*50 = 17	*56 = 37
*39 = 36	*45 = 19	*51 = 7	*57 = 1
*40 = 5	*46 = 8	*52 = 2	*58 = 20
*41 = 15	*47 = 18	*53 = 12	*59 = 21
*42 = 35	*48 = 3	*54 = 6	*60 = 17
43 = 4	*49 = 13	55 = 16	

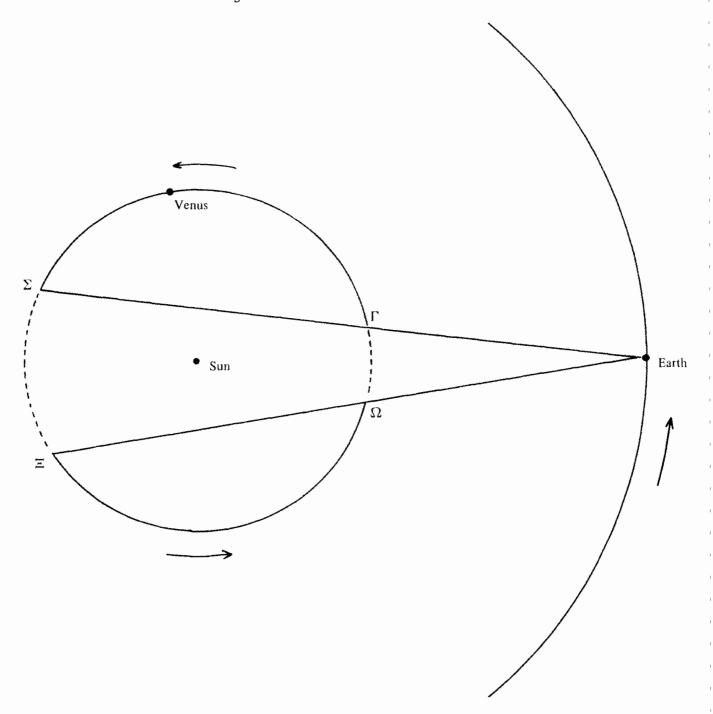


Figure 1. The Orbits of Venus and the Earth

Note. This diagram is not drawn to scale. The actual dates and longitudes of the phenomena of Venus depend on variables not represented in this simplified scheme.

In table IV are given the dates and periods of invisibility from each omen in sections I and 3II and from the corresponding omens in section IV and omen 60. The copies preserving the information are indicated in parentheses. A column is added indicating the intervals of visibility computed on the assumption also made by the scribe who computed the periods of invisibility recorded in the text- that is, that each month contains 30 days. In the margin is given in square brackets the number of the regnal year of Ammişaduqa in which the last visibility of each omen would have fallen on the assumption that sections I and III contain observations of the 21 years of his reign.

Table IV. The Astronomical Data in the Order of Omens 1-21.

Year	Omens	Last visibility	Interval of invisibility	First visibility	Interval of visibility
[1]	1	Ω XI 15 (B) Ω (A)	3d (AB)	Γ XI 18 (B) Γ (A)	8m 23d (B)
	57	Ω (AU)	3d (AJ)	Γ XI 18 (J) XI 18 (U) XI 28 (A)	
[2]	2	Σ VIII 11 (B) Σ (A)	2m 7d (B) 2m 8d (A)	Ξ X 19 (B) Ξ (A)	8m 4d (B)
	52	Σ (A)	2m 8d (A)	$\Xi X 19 (A)$	
[3]	3	Ω VI 23 (B) Ω (A)	20d (AB)	Γ VII 13 (B) Γ (A)	8m 19d (B)
	48	Ω VI 23 (A) Ω (Q)	20d (A)	Γ VII 13 (A)	
[4]	4	$\Sigma \text{ VII}^{1} \text{ 2 (B)}$ $\Sigma \text{ (A)}$	2m 1d (AB)	Ξ VI 3 (B) VI 3 (J) Ξ (A)	8 ² m 29d (B)
	43				
[5]	5	Ω II 2 (B) Ω (A)	18d (B) 15d (A)	Γ II 18 (B) II (AJ)	8 ³ m 7d (B)
	40	Ω II 2 (KP) II 2 (T)	<i>x</i> d (P)	Γ II 28 or 18 (K) Γ (T)	

¹A scribal error for IV.

 $^{^2} lncluding the attested <math>XII_2$ in Ammisaduqa 4.

³Including the alleged VI₂ in Ammisaduqa 5.

(Table IV continued)

Year	Omens	Last visibility	Interval of invisibility	First visibility	Interval of visibility
[5]	6	Σ IX 25 (B) Σ IX 12 (A)	2m 4d (AB)	芝 XI 29 (B) 芝 XI 16 (A)	8m 29d (B)
			4d (J)	XI 28 (J)	
	54	$\sum x+1$ (A)	2m xd (AO)	Ξ (AO)	
		Σ 12 (O)			
[6]	7	Ω VIII 18 ⁴ (B)	3d (AB)	Γ IX + (B)	8m 20d (B + A)
		VIII $20 + x$ (A)		IX 1 (A) IX (J)	
	51	Ω VIII 28 (A)	5d (A)	Γ IX (A)	
[7]	8	Σ V 21 (A)	2m 11d (B)	Ξ VIII 2 (A)	8m 23d (AC)
		Σ (BC)	xm x + Id (A)	VIII 2 (C)	
				VIII (J)	
	46	Σ (Q)		Ξ (Q)	
[8]	9	Ω IV 25 (AC)	7d (BCD)	ΓV 2 (ACJ)	7 [!] m 23d (AC)
				Γ (D)	
	44	IV (V)		$\Xi^!$ (Q)	
				lV (V)	
[8]	10	Σ XII 25 (AC)			
[9]	11	Ω III 11 (AC)	9m 4d (CD)	Γ XII 15 (AC)	8 ⁵ m 25d (C)
			9m xd (A)	Γ (D)	
			xm 5d (3)	XII 16 (J)	
[10]	12	Σ VIII 10 (AC)	2m 6d (C)	Ξ X 16 (ACJ)	8m 10d (C)
			xm 6d (D)		
			2m 16 [?] d (F)		
	53	Σ (Ο)	2m 8d (A)	Ξ X 16 (A)	
			2m xd (O)	Ξ (Ο)	

[BM 2, 18]

 $^{^4\}mathrm{A}$ scribal error for 28. $^5\mathrm{Including}$ the attested VI_2 in Ammişaduqa 10.

(Table IV continued)

Year	Omens	Last visibility	Interval of invisibility	First visibility	Interval of visibility
[11]	13	Ω VI 26 (C)	11d (CF)	Г VI ₂ ⁶ 7 (СЈ)	7! m 2d (C)
	49	Ω VI 26 (A)	12d (A)	$\Gamma \text{ VI}_2 \text{ 8 (A)}$	
[12]	14	Σ I 9 (C)	5m 16d (CF)	Ξ VI 25 (CJ)	7 [!] m 10d (C)
	38	Σ I 8 (K)	5m 18d (K)	V1 x (K)	
		(T) 8 I	5m 17d (T)	VI 25 (T)	
		I (P)		VI 24 (P)	
[13]	15	Ω II 5 (C)	7d (CFG)	$\Gamma = x + 1 (F)$	8m 9d (FG + G)
				Γ (CJ)	
				12 (G)	
	41	Ω II 5 (K)	7d (T)	Γ (KT)	
		5 (T)	6d! (V)	III (V)	
[13]	16	Σ X 20 (C)	15d (C)	Ξ XI 11 (CG)	8 ⁷ m 29d (CG)
		X 21 (G)		Ξ (J)	
	55	$\Omega^!$ 24 (O)	1m xd (O)	Γ! XI 28 (A)	
		$\Omega^!$ (A)	xm 4d (A)	$\Gamma^!$ (O)	
[14]	17	Σ' VII 10 (C)	Im 16d (C)	Ξ! VIII 26 (CG)	8m 20d (C)
		VII 10 (G)			8m 21d (G)
	50	Ω VII 11 (A)	1m 17d (A)	Г VIII 28 (A)	
	60	Ω 11 (N)			
		Ω 3 (R)	1m 7d (R)	VIII 28 (R)	
		VII (B)		VIII 27 (B)	
[15]	18	Σ V 20 (C)	2m 15d (C)	Ξ VIII 5 (C)	9! m 0d (C)
		Σ V 21 (G)		Ξ IX 5 (G)	11! m 0d (G)
	47	Σ (Q)	1 + xd (O)	Ξ (A)	

 $^{^{6}}$ This is assumed to be the attested VI_{2} in Ammişaduqa 11. 7 Including the attested XII_{2} in Ammişaduqa 13; if the alleged VI_{2} in Ammişaduqa 14 is correct, the interval is $9^{!}$ m 29d.

(Table IV continued)

Year	Omens	Last visibility	Interval of invisibility	First visibility	Interval of visibility
[16]	19	Ω V 5 (C)	15d (C)	Γ IV 20 (G)	7! m 25d (G)
		Ω VIII 5 (G)		Ξ! V 20 (C)	6! m 25d (C)
	45	Ω (Q)			
[16]	20	Σ XII 15 (CG)	3m 9d (C)	Ξ III 25 (C)	8m 15d (C)
		Σ (H)	2m 7d (H)	至 (G)	
	58	Σ (AUV)	2m 7d (AJ)	Ξ (A) HI 4 (J)	
[17]	21	XII 10 (C)	4d (CH)	Γ XII 14 (C)	
	59	Ω (A)	4d (AJ)	Γ XII 14 (J)	
		$\Sigma^!$ (V)		Γ (A)	
[19]	34	$\Omega \text{ VI}_{2} \perp (C)$	15d (C)	Γ VI ₂ ⁸ 17 (C)	9! m 8d (C)
		Ω (N)	16d (M)	$VI_2^-(M)$	
				VI ₂ I4 (N)	9 [!] m 11d (N)
[20]	35	Σ III 25 (C)	2m 6d (C)	Ξ VI 24 (C)	8 ⁹ m 3d (C)
		25 (N)	2m 16d (M)	VI 14 or x (N) Ξ (M)	
	42	III (V)	1 [?] m 9d (V)	三(V)	
		•	,	x + 5 (K)	
[21]	36	Ω I 27 (C) 27 or 28 (N)	7d (C)	II 3 (C)	8m 25d (C + O)
	39	1 26 (PT)	6d (T)	Γ II 3 (P)	
		$\Sigma^!$ 1 27 (K)	•	Γ(Τ)	
				王! II 3 (K)	
[21]	37	Σ (C)		XII 28 (C)	
	56	$\Sigma = 28 \text{ (O)}$	2m 0d (A)	Ξ (OU)	
		Σ (A)	xm 0d (J)		

 $^{^{8}}$ This is assumed to be the attested VI_{2} in Ammişaduqa 17 + d. 9 Including a VI_{2} or a XII_{2} ; this is assumed to be the attested XII_{2} in Ammişaduqa 17 + a.

Suggestions for a History of the Tradition of the Text.

From the preceding table two things are clear: the source of section IV, which we will henceforth call the γ text, was a rearrangement of the omens that appear in sections I and III, which sections we will call the β text; and γ does not copy all of these omens but omits omens 10 and 11 of section I and omen 34 of section III. If we look more closely, we notice that omen 34 uniquely begins with an intercalary month; that omen 10 is not an omen but as presently preserved is in the form of a simple observation dated in the year of the Golden Throne, which is the eighth year of the reign of Ammisaduqa; and that omen 11 contains an egregious error. For in omen 11 the western last visibility (or first invisibility) should be dated XII 11 instead of III 11 and the interval of invisibility should be 4 days instead of 9 months and 4 days. The correct data are found in omen 21, which is quoted in the γ text as omen 59. One may hypothesize therefrom that the common source of β and γ , which source we will call α , had omen 21 in place of omen 11, but that β substituted for it omen 11 with the apodosis of omen 37. Omen 21 was then added at the end of the second 8-year period and has a double apodosis, one unique to it, the other the apodosis of omens 11 and 37. Of course it is also possible to regard omen 21 as containing the first pair of phenomena in the third 8-year cycle of Venus in Ammisaduqa's reign.

But it seems to us that the α text naturally falls into three sections. Omens 1-10 constitute an 8-year cycle of Venus (five synodic periods) in which omen 10 was already incomplete, but was dated. Except for the wrong month in omen 4 (month VII written by mistake for month IV, an easy error to make paleographically and one that was peculiar to β since γ , in omen 43, must have had month IV), for variant day-numbers in the different sources of omen 6, and for a serious problem in omen 9, this section in β makes perfect sense astronomically as a sequence of observed events if month XII₂ was intercalated in year 4 and month VI₂ in year 5. In fact, we know that the first of these intercalations and probably the second occurred during the reign of Ammişaduqa. The γ text provides us with variant day-numbers for omens 1, 5, and 7 which attest to some insecurity in the text of these ten omens, but not much. This part of the text allows one to eliminate most years in the approximate time of Ammişaduqa from consideration as the first year of his reign, but they do not definitely decide which of the remaining years is the correct one.

Omens 11-20/21 appear to represent a second 8-year period of Venus (or such an 8-year period followed by the first pair of phenomena in a third). However, the text of β is extremely corrupt: omens 11, 14, 16, 17, 19, and 20, are impossible; van der Waerden's method of dealing with this is displayed in Table V. In fact, of the twenty-two entries in omens 11-21, which he takes to be a continuation of omens 1-10, van der Waerden, applying the 8-year rule, rejects or alters nine, reads unattested numbers in two, and rejects two entries among the nineteen of omens 1-10 because they do not fit in with the entries for eight years later in omens 11-21. Therefore, more than half of the entries in this section of β are, according to van der Waerden, astronomically impossible if omens 11-21 are to be regarded as a continuation of omens 1-10. Moreover, the versions of omens 12-21 in the γ text offer variants for eight of the day-numbers; and in nine cases no numbers happen to be preserved.

That some of these corruptions already existed in the α text is clear from the fact that the impossible interval between Σ and Ξ in omen 14-5 months and 16 days—also appears in omen 39 of the γ text as 5 months and 17 or 18 days. However, in the case of omen 16 (β), which is not correct according to van der Waerden, there is a given interval of 15 days which does not fit the dates of the phenomena; in the corresponding omen 55 (γ), the phenomena, the dates, and the interval are all different, the interval being 1 month and 4 days. The succeeding omen 17 (β) has the wrong phenomena, while omen 50 (γ) has the correct phenomena. All three texts— α , β , and γ —are corrupt in this section. Omen 20 (β) and omen 58 (γ) allow one to restore the text of this omen in α ; the date of the eastern last visibility was XII 25, the interval was 2 months and 9 days, and the date of the western first visibility was III 4. The dates in omen 19 (one must either read the second date as IV 20 as does G or assume an intercalated VI₂, which is not attested for the 16th year of Ammisaduga) were also copied differently from α by different scribes.

Table V. The Data as Accepted by van der Waerden.

Last visibility	First visibility
Ω XI 15	Γ XI 18
Σ VIII ± 1	Ξ X 19
Ω VI 23	Γ VII 13
Σ IV 1 2	Ξ VI 3
Ω II 2	Γ
Σ IX 25^2	Ξ XI 29 ²
Ω VIII 28	Γ1Χ 1
Σ V 21	ΞVIII 2
Ω	Γ V 2
Σ XII 25	
$\Omega imes ext{XH}^3 o o$	Γ XII 15
Σ VIII 10	Ξ X 16
Ω VI 26	$\Gamma \text{ VI}_{2} 8$
Σ	Ξ
Ω	Г II 12
Σ X 21	Ξ XII 21 ⁴
Ω^{5}	Γ ⁵ VIII 28
Σ V 20	王 VIII ⁶ 5
Ω IV ⁷ 5	Γ IV 8 20
Σ XII 25 9	Ξ
Ω XII 11	Γ
Ω	Γ
Σ III 25	Ξ
ΩΙ 27	Г II 3
Σ X 28	Ξ XII 28
	Ω XI 15 Σ VIII II Ω VI 23 Σ IVI 2 Ω II 2 Σ IX 25 ² Ω VIII 28 Σ V 21 Ω Σ XII 25 Ω XIII 10 Ω VI 26 Σ Σ Σ Σ Σ Σ Σ Σ Σ Σ

 $^{^{1}}$ Corrected from VII in B; presumably IV in V.

²IX 12 in AO; XI 16 in A.

³Corrected from III in AC.

 $^{^4}$ XI II in CG, XI 28 in A.

 $^{^5\}Sigma$ in C; Ξ in CG.

 $^{^6\}mathrm{VIII}$ in C, LX in G.

 $⁷_{V \text{ in C}, VHI \text{ in G}}$.

 $^{^{8}}$ IV in G, V in C.

⁹XII 15 in CG.

These considerations make it difficult to place much reliance on the data in this set of omens, and even raise the possibility that they are not a continuation of omens 1-10 intended to cover the 9th through the 16th (17th if omen 21 is regarded as the beginning of a third 8-year cycle) years of Ammişaduqa's reign. It is true that the periods of visibility indicate the presence of an intercalated VI₂ in year 11; in fact, our list of intercalations in Ammişaduqa's reign in Table VI shows 10**, 11**, and 13*; and perhaps 14**. However, the text of the dates of the phenomena in years 13 and 14 (omens 16 and 17) is corrupt, so that some doubt is thrown upon 13*. Therefore, the possibility exists that omens 18-20 and perhaps omens 14-20 have nothing to do with the reign of Ammişaduqa, or some of them may while others do not. However one looks at the matter, it is extremely risky to use any of this section as a criterion for dating; essentially one is forced to assume, if one does use it, that disagreements of the text with computations for one's chosen date are scribal errors, so that the chosen date becomes a means of verifying the authenticity of the text rather than the other way around.

Table VI. Attested Intercalations in the Reign of Ammisaduqa.

(L.-F: S. Langdon and J. K. Fotheringham, The Venus Tablets of Ammizaduga, Oxford-London 1928, p. 61.

YOS 13: J. J. Finkelstein, Late Old Babylonian Documents and Letters, Yale Oriental Series 13, New Haven-London 1972.

VAS 18: H. Klengel, Altbabylonische Rechts- und Wirtschaftsurkunden, Vorderasiatische Schriftdenkmäler Neue Folge, Heft II (Heft XVIII), Berlin 1973.)

4* (with XII ₂)	L-F
5** (with VI ₂)	L-F ²
10**	L-F; YOS 13 532
11**	L-F
13*	YOS 13 404
14**	L-F ³
17+a*	L-F; YOS 13 53; VAS 18 99
17+d**	YOS 13 146

Further, L-F cite an unpublished text dated 17+a that indicates that the preceding year contained an intercalated VI₂.

¹Intercalations attested in YOS 13 have been collected and kindly communicated to us by Dr. Hermann Hunger, University of Vienna,

²This VI₂ is based on two unpublished contracts communicated to Fotheringham by Schnabel. It has not been confirmed.

This is reported to be in an unpublished contract communicated to Fotheringham by Schnabel. If it is genuine, the interval of visibility between omens 16 and 17 is too long. Dr. Horst Klengel, Deutsche Akademie der Wissenschaften, Berlin, to whom we are grateful for his help, informs us that a quick check of the unpublished Old Babylonian contracts in the Berlin museum failed to turn up the contracts which supposedly contain the otherwise unattested intercalations.

Following omen 21 is an insert with a completely schematic arrangement of the first and last visibilities of Venus. The author of this insert assumed the following mean values for the periods of visibility and invisibility:

	Visibility	Invisibility		
East	8 months 5 days	3 months		
West	8 months 5 days	7 days		

The preserved copies of the text contain some errors, but they are easily corrected. The subscript in MSS. C, M (= A?), and N indicates that they were copied from an original from Babylon. Note that *Iqqur īpuš* excerpts omens *only* from this section of Tablet 63. This schematic representation must be relatively late as it is based on a recognition of the periodicity of Venus' motion.

To us it seems likely that whoever put together a used four sources: one contained omens 1-10 and some of omens 11-21, another the rest of omens 11-21, a third the insert (which we will call δ), and a fourth omens 34-37. This reconstruction would support our theory that omens 34-37 have nothing to do with Ammişaduqa's reign.

It is also possible that the compiler of a copied from one text containing omens 1-37 till he had finished omen 21; then turned to another source, the δ text; and finally turned back to his original source to copy omens 34-37, in the process omitting the entry for Ammisaduqa's 18th year. This is the reconstruction of events that previous scholars have accepted; to us it appears very dubious indeed. For in fact omens 34-37 fit very poorly indeed with the previous omens. There are serious astronomical problems with three of the four -34, 35, and 36; the γ text does not contain an omen corresponding to omen 34, but it has variants for two of the five attested day-numbers in 35, 36, and 37. The text preserves a VI, in omen 34, which is supposed to fall in the 19th year of Ammisaduqa; and the interval of visibility between omens 35 and 36 indicates the presence of a VI2 or a XII2 if these two omens are sequential; this is supposed to correspond to the 20th year of Ammisaduqa. We do have in our list of intercalations two years-17+d** and 17+a*which could well be identified with years 19 and 20 of Ammisaduqa, though it cannot be proved that the pair of years X** and 17+a* are not years 17 and 18, or 18 and 19, or 20 and 21, or that there was not yet another intercalated VI₂ in the period between the years 16 and 20 of Ammisaduqa which 17+a might follow. If we read month V in omen 19, we expect a VI, in year 16. The principal objection to identifying 17+d** with the 19th year of Ammisaduqa, however, is that the dates given in omen 34 are astronomically impossible because of the 8-year rule.

Following omen 37 in the "canonical" copies of Tablet 63 (i.e., MSS. A, J, and K, and perhaps L (+) P (+) Q) is the γ text, of which we also find fragments in a number of other copies (i.e., MSS O, T (+) U, and V); T (+) U at least contained *only* γ .

Three copies (MSS. B, N, and R) evidently omitted the γ text, but add an extra omen (60). This is a version of omen 17 with the erroneous eastern last visibility of β corrected to a western last visibility. This correction also appears in omen 50 of γ , but the source of B, N, and R seems not to have known γ . That source, according to the scribe of B, dated from the reign of Sargon II (721-705 B.C.).

There is one other fragment, MS. E, which contains omens similar to those in the γ text (not β because of the sequence of two last visibilities in the East), but not identifiable with any of them. It attests to the existence of collections of similar Venus-omens different from those found in Tablet 63, and increases the probability that at least some of those from among omens 11-21 and 34-37 preserve records of observations not made during the reign of Ammişaduqa.

In conclusion we would remark that this text has undergone a considerable process of expansion and corruption prior to its being inscribed on the tablets available to us. The dates of original observations of first and last visibilities of the planet-including a whole series of such from the first half or more of Ammisaduqa's reign-were arranged in pairs, though not always correctly. At some time each pair was associated with an apodosis; and either then or at some other time the intervals of invisibility were computed. Several such collections—or perhaps just one that was already extremely corrupt—were combined to form a; and a rearrangement of the material in a was made to form γ . We have independent witnesses to the existence of a by itself (MSS, B, N, and R, which add the extra omen 60 which is a corrected version of 17); to γ by itself (MS. T(+)U and perhaps others); and to δ by itself (K.3170 + in Appendix A together with Iqqur ipus). We can only conjecture about the relationship of these separate texts to each other, and about the relationship of the dates preserved in various of them to the occurrences of phenomena during the reign of Ammişaduqa. That the majority of the dates of the first 8-year cycle and of the beginning of the second form a valid negative argument for establishing the date of the beginning of Ammisaduga's reign seems to us to be admissible. We do not see the absolute necessity of accepting the hypothesis that the dates preserved in the rest of the text must also belong to Ammisaduqa's reign; at least half of them anyway are rejected or emended by those who claim they are relevant to the problem of Ammisaduqa's chronology. To leave out of consideration omens 11-37 will not affect the usefulness of the test of proposed dates afforded by omens 1-10 since the later dates are in any case ignored when they disagree astronomically with the earlier.

Bibliography

The following annotated bibliography includes the more significant studies of the Venus Tablets since the edition of Langdon, Fotheringham, and Schoch in 1928; they discuss the literature before 1928 in chapter V (pp. 28-44).

1. S. Langdon, J. K. Fotheringham, and C. Schoch, The Venus Tablets of Ammizaduga, Oxford-London 1928.

Analysing the material on the basis of Langdon's copies, transliterations, and translations of A, B, C, G, P, Q, and part of T (Rm. 134) and using Schoch's tables, Fotheringham chose out of the possibilities -1976, -1920, -1856, -1808, and -1800 the second (-1920) to be the first year of Ammisaduqa's reign. Langdon misread some numbers, but essentially the table on p. 58 correctly represents the data in the copies accessible to him; the main corrections one would have to make are in omens 16, 19, and 21.

2. D. Sidersky, "Nouvelle étude sur la chronologie de la dynastie Hammurapienne," Revue d'assyriologie 37 (1940) 45-54.

Using Langdon's data, Sidersky chose -1701 as the first year of Ammisaduqa.

3. A. Ungnad, Die Venustafeln und das neunte Jahr Samsuilunas (1741 v. Chr.), Leipzig 1940, reprinted Osnabrück 1972.

Using A, B, C, G, P, and part of T (Rm. 134), correcting Langdon's readings at several points, and assuming that the first year of Ammisaduqa's reign falls between -1659 and -1639, Ungnad chose -1645 as the most probable.

4. J. W. S. Sewell in S. Smith, Alalakh and Chronology, London 1940, pp. 26-27 and 50-52.

Using Langdon's data and Schoch's tables, Sewell shows that the year -1645 could be the first year of Ammişaduqa as well as -1920.

5. F. Cornelius, "Berossos und die altorientalische Chronologie," Klio 35 (1942) 1-16.

Using Langdon's data and Schoch's and P. V. Neugebauer's tables, Cornelius claims in fn. 2 on p. 7 to have found that -1581 is a possible first year of Ammisaduqa.

6. B. L. van der Waerden, "On Babylonian Astronomy I. The Venus Tablets of Ammisaduqa," Ex oriente lux 10 (1945-1948) 414-424.

"Correcting" the data of Langdon and Ungnad (see Table V), and preparing new astronomical tables to replace Schoch's (B.L. van der Waerden, "Die Berechnung der Ersten und Letzten Sichtbarkeit von Mond und Planeten und die Venustafeln des Ammisaduqa," BSAW, Math.-Phys. Kl. 94 [1943] 23-56), van der Waerden examines Sidersky's Ungnad's, and Cornelius' dates, and finds the last to be the best. Therefore, he identifies -1581 with the first year of Ammisaduqa, but calls attention to a difficulty that this dating raises involving climatic changes in antiquity. This dating is iterated by van der Waerden in his Die Anfange der Astronomie, Groningen 1965, pp. 34-47.

7. J. D. Weir, The Venus Tablets of Ammizaduga, Istanbul 1972.

Using Langdon's data, Weir concludes that the first year of Ammisaduqa was -1645. Further, by making totally unjustifiable assumptions about the nature of the material preserved in the tablets, he tries to squeeze from these very questionable data arguments to support his theses that the original observations were made at Agade and that the orbit of Venus has altered since the seventeenth century B.C.

On the uncertainty of all such attempts at dating these tablets absolutely see O. Neugebauer, "Zur Frage der astronomischen Fixierung der babylonischen Chronologie," OLZ 32 (1929) 913-921.

[BM 2, 27]

THE TEXT

Introductory Note.

The format of the text edition is an experiment designed to present each text separately so that the preserved parts of each manuscript may be easily identified, and at the same time each omen may be given in its most complete form.

The top line is a composite transliteration from all available manuscripts; the bottom line gives a connected transcription of this composite text. Restorations appear in these two lines only. Under the top line, each source manuscript is given a separate line; each sign that is preserved in the source is indicated by a dash under the transliterated sign in the top line. A ϕ under the transliterated sign indicates that the sign is missing in the manuscript. Broken parts are left blank within the brackets. A small raised number before a sign indicates the line division within that manuscript. Whenever variant spellings appear in the different sources, the particular spelling of that word is given for each source, e.g., the spellings uh-ha-ram-ma or ZAL-ma in omen 34.

Whenever the dates—month or days—of the Venus phenomena differ from text to text, the reconstructed top and bottom lines express no choice among them. When the month name differs, these lines have MN, and the different months are given in each source line; when the day-number differs, these lines have UD.n.KAM, and the attested day-numbers are given in each source line.

Translations accompany the first two omens only, since the protases of omens 1-21 and 34-60 are of the same pattern (see p. 9f). The variables in the protases—the dates of first invisibility, duration of invisibility, and first visibility, and the Eastern or Western occurrence of these phenomena—are given for the sake of clarity and easy comparison in Table IV. Translation and comments on the protases of omens 22-33 are given on p. 10. The translation of the apodoses is found in Table II.

¹For this format, sometimes referred to as a "score", see D. O. Edzard, Or. NS 43 (1974) 106.

The Text 29

Transliteration and Transcription

1 DIŠ A 1 [B 1 r . 1	[ina] ITI.ÁŠ	UD.15.KAM	^d Nin-si ₄ -an-na] -	ina	^d UTU.ŠÚ.A it-b	al UD.3.KAM
	[] [Ina] Šabāṭi In month XI,		Ninsianna Venus	ina in the	ereb šamši itbo west disa	d 3 ūmī ppeared, 3 days
	A B - [ina šamê	սկ-ḥa-ram-ma] սկվaramma	² [ITI.ÁŠ Šabāṭi	 UÐ.18.KAM] Ninsiarva
	in the sky ina dutu.È A B ina sit šamši in the east		IDIM.MEŠ DU, [nagbū ippo	₈ .меš -]	Adad zunnēš] u Ea
	IDIM.MEŠ-šú A B nagbēšu his floods	ub-ba-la LUG	 u ana šarri	S [sal	LIM.MA ILIM <i>līma</i> essages of reconcilia	KIN išappar. tion will send (= apodosis 2
2 DIŠ A 4 [B 4 -	ina ITI.APIN	UD.11.KAM	^d Nin-si ₄ -an-na] -	ina ⁽	d UTU.È it-bal	2 ITI
		UD.II.KAM 11 th day,	Ninsianna Venus	ina g	sît šamši itbal east disappe	2 arhī eared; 2 months
	A - 8 - B - 7 - n ūmī i	[[na šamê uḥḥ		5 5	ina ITI.AB [UD.n.KAM - 19 - UD.n. KAM n th day,
	^d Nin-si ₄ -an-na A n] B <i>Ninsianna</i> Venus		° mši innamir:	EBUF - - <i>ebūr</i> le: the l	- māti i	I.SÁ - - [] ššir. will prosper (= apodosis 1).

```
UD.23.KAM
                                               <sup>d</sup>Nin-si<sub>4</sub>-an-na
                                                                          <sup>d</sup>UTU.ŠÚ.A
      DIŠ
                                                                   ina
                                                                                          it-bal
  A 6
                                                             n|a
 B 6
      •
              Ina
                      Ulūli
                                UD.23.KAM
                                                 Ninsianna
                                                                   ina
                                                                          ereb šamši
                                                                                           itbal
                                                                                                     20 ūmī
                                                                                                                    ina
                                                                                                                           šarnê
                                          ITI.DU<sub>6</sub>
                                                     UD.13.KAM <sup>d</sup>Nin-si<sub>4</sub>-an-na
                                                                                                <sup>d</sup>utu.è igl.du<sub>8</sub>
                uh-ha-ram-ma
                                  ina
                                                                                         ina
                                                                                   n] a
             B - - [ ] 7 -
                ulılıaramma
                                           Tašrīti
                                   ina
                                                      UD.13.KAM
                                                                       Ninsianna
                                                                                          ina
                                                                                                sīt šamši innamir:
                NAM.KÚR.MEŠ
                                    ina
                                           KUR
                                                  GÁL.MEŠ
                                                               EBUR SLSÁ
             B SAL
             J<sup>6</sup>* [
                nukurātu
                                    ina
                                           māti
                                                                        iššir.
                                                   ibaššâ
                                                                 ebūru
                                UD.2.KAM <sup>d</sup>Nin-si<sub>4</sub>-an-na
                                                                         d<sub>UTU.È</sub>
4 diš
                    ITI.DU<sub>4</sub>
                                                                  ina
                                                                                     it-bal
             ina
 A 8 [
 В 8
 J 7
                                               Ninsianna
                                                                  ina
                                                                         sīt šamši itbal
                                                                                              2
                                                                                                   arhī UD.1.KAM
      •
             Ina
                    Tašrīti
                                UD.2.KAM
```

UD.3.KAM ^dNin-si₄-an-na

Ninsianna

UD.3.KAM

^dUTU.ŠÚ.A

ereb šamši innamir:

ina

ina

ŠÀ KUR DÙG-ab A - - - - - [] B - - - [] J - - [] *libbi māti iţâb.*

uh-ha-ram-ma

uliharamma

ina

ina

ITI.KIN

- 1|TI

Ulūli

J

šamê

^{*} J 1-5 broken.

```
ITLGUD UD.2.KAM <sup>d</sup>Nin-si<sub>4</sub>-an-na
5
                                                                    <sup>d</sup>utu.šú.a
                                                                                  it-bal
   DIŠ
           ina
                                                             ina
                                                                                          UD.n.KAM
                                                                                                        ina
                                                                                                               AN-e
 A 10
                                                                                              15 -
 B 10 -
                                                                                              18 -
 J 9 [
                                                                    ereb šamši
                                                                                  ithal
                                                                                            ก นิกนิ
      9
                              UD.2.KAM
                                            Ninsianna
                                                                                                        ina
                                                                                                               šamê
            Ina
                  Ajari
                                                             ina
                                                                                         <sup>d</sup>utu.È
                                                              dNin-si<sub>a</sub>-an-na
                                                  UD.n.KAM
                                                                                                  IGLDU<sub>s</sub>
                                                                                                              ŠÈG.ME
               uh-ha-ram-ma
                                       ITLGUD
                                                                                  ina
                                ina
            A uḥ-ḥa-ram-ma 11 |
            B uh-ha-ram-ma 11 -
                                                   - 18 -
                                                               10
            J ZAL
               uhharamma
                                                  UD. n. KAM
                                                                Ninsianna
                                                                                  ina
                                                                                         sīt šaniši innamir: zunnū
                                ina
                                        Ajari
                                 GÁL.ME
                                            EBUR
                                                     KUR
                                                            SLSÁ
                    A.KAL.ME
            A -
                                      ME
                                      MEŠ
            В-
           J
                                      M]EŠ
                                  ibaššû
              11
                    mīlū
                                            ebūr
                                                     māti
                                                             issir.
```

```
6 diš
                                            <sup>d</sup>Nin-si<sub>4</sub>-an-na
                                                                      <sup>d</sup>utu.È
                              UD,n.KAM
                                                                                 it-bal
                                                               ina
 A^{12} -
                               - [12]
 B^{12} -
                                 25 -
 J 11
     1
                  Kislimi
                                             Ninsianna
                                                               ina
                                                                      sīt šamši itbal
                                                                                                                   ina
           Ina
                              UD.n.KAM
                                                                                               arhī
                                                                                                      4 ūmī
                                                                        <sup>d</sup>Nin-si<sub>4</sub>-an-na
                                                                                                  <sup>d</sup>utu.šú.a
                                                                                                                 IGLDU<sub>8</sub>
               AN-e
                        uh-ha-ram-ma
                                                 ITLÁŠ
                                                          UD, n, KAM\\
                                          ina
                                                                                            ina
                                        13
                       uh-ha-ram-ma
              - -
                                                              16 -
            Α
           В
              _ _
                       uh-ha-ram-ma
                                                              29 -
                                                              28 - 12[
                        ZAL -
                                   m]a
                                                 Šabāti UD.n.KAM Ninsianna
              šamê
                        uhharamma
                                                                                            ina
                                                                                                  ereb šamši
                                          ina
                                                                                                                  ınnamur:
               EBUR
                        KUR
                               SLSÁ
            A
            В
            J
                                - [ ]
              ebūr
                        māti
                              iššir.
```

```
BPO 1: EAE, Tablet 63 (Venus)
32
                                                                                d<sub>UTU.ŠÚ.A</sub>
                                                                                                                     ina
                                                                                             it-bal
                                                                                                       UD.3.KAM
                                                      dNin-si<sub>4</sub>-an-na
                                                                         ina
                                   UD.n.KAM
         DIŠ
                                    - 20 hi-pí eš-šú
   A
       14
                                    - 18.KAM
   В
      13 [
   J
                                                                                                         3 ūmī
                                                                                                                     ina
                                                                                ereb šamši
                                                                                               itbal
                                                                         ina
                                                        Ninsianna
                       Aralisamna UD.n.KAM
                Ina
                                                                                                        <sup>d</sup>utu.È
                                                                                                                   IGLDU<sub>8</sub>
                                                                              <sup>d</sup>Nin-si<sub>4</sub>-an-na
                                                                                                 ina
                                                                UD.1.KAM
                                                     ITLGAN
                            uh-ha-ram-ma
                    AN-e
                            uḥ-ḥa-ram-ma 15 -
                            uḥ-ḥa-ram-ma 15 -
                В
                D
                                                                                                        sīt šamši innamir:
                                                                                Ninsianna
                                                                                                  іна
                                                                 UD.1.KAM
                                                      Kislimi
                                               ina
                    šamê
                            uhharamma
                                                                                             GAR.ME
                                                                                ub-bu-tu
                                                        KUR
                                                                GÁL
                    SU.KÚ
                 A S U -
                                                                      KLMIN
                                                                                (traces)
                                          lšu
                 D
                                                                                 - - t[u
                                                   1-
                                                                                             iššakkan.
                                                                                ubbutu
                                                         māti
                                                                ibašši
                    hušalılıi še'i u tibni
                                                  ina
                                                                           <sup>d</sup>utu.È
                                                                                                          UD.11.KAM
                                                                                      it-bal
                                                 <sup>d</sup>Nin-si₄-an-na
                                                                    ina
           DIŠ
                                                                                                              \Gamma_{i}^{1}\Gamma_{i}^{1} = 1
        16
     Α
                                                                                                              11
        16
       l'
    C
                                                                                        blal
        2'
    D
        15
     J
                                                                                                                         ina
                                                                                                          11 ūmī
                                                                     ina sīt šamši itbal
                                                                                                2
                                                  Ninsianna
                                   UD.21.KAM
                  Ina
                          Abi
                                                                                                           <sup>d</sup>UTU.ŠÚ.A
                                                                                 <sup>d</sup>Nin-si<sub>4</sub>-an-na
                                                                   UD.2.KAM
                              uḫ-ḫa-ram-ma
                                                       1TLAPIN
                     AN-e
                              uḥ-ḥa-ram-ma 17 -
                              uh-ha-ram-ma 17
                                    lram-ma
                              uḫ-ḫa-ram[ ] 3'
                           ZAL ma
                                                                                                           ereb šamši
                                                        Aralisamna UD.2.KAM Ninsianna
                                                                                                    ina
                               ulılıaramma
                                                 ina
                     šamĉ
                                                    KUR
                                                            GÁL.MEŠ
                                 ŠÈG.MEŠ
                                             ina
                      IGLDU<sub>8</sub>
                                                                                          MES
                   A
                                                                                          ME
                                                                                           ME
                                                                                           an
                                      ME
                                                                                           MEŠ
                                                                                     iššakkan.
                                                    māti ibaššû
                                                                          ubbutu
                                  zunn\bar{u}
                                             ina
                      innamir:
                                                         [BM 2, 32]
```

```
<sup>d</sup>Nin-si<sub>4</sub>-an-na
                                                                    <sup>d</sup>utu.šú.a
                            UD.25.KAM
                                                                                  it-bal
      DIŠ
                                                             ina
                                                                                           UD.7,KAM
  18
A
                                                                                   - ba[]
B 18 [
  4'
C
D 4'
  17
                                                                    ereb šamši
                   Dw \tilde{u}zi
                            UD.25.KAM
                                             Ninsianna
                                                                                   itbal
                                                                                             7 iuni
                                                                                                         ina
                                                                                                               šamê
                                                              <sup>d</sup>Nin-si<sub>a</sub>-an-na
                                                                                       dutu.È igi.du<sub>a</sub>
               uh-ha-ram-ma
                                                                                 ina
                                                 UD.2.KAM
            A uh-ha-ram-ma 19 -
            B uh-ha-ram-ma 19[
            C uh-ha-ram-ma
            D uh-ha-ram-ma 5' [
                                                                                                              KLMIN
            J ZAL
               uhharamma
                                                                                       sīt šamši innamir:
                                  ina
                                          Abi
                                                  UD.2.KAM
                                                             Ninsianna
                                                                                 ina
                                                                                                             zunnii
                            GÁL,MEŠ
                                          ub-bu-tu
                                                       GAR.MEŠ
                                   ME
                                   MEŠ
            C
                                   MEŠ
            D
            J
               ina
                      māti
                              ibaššû
                                           ubbutu
                                                        iššakkan.
```

```
<sup>d</sup>Nin-si₄-an-na
                                                                  <sup>d</sup>UTU.È it-bal MU GIŠ.DÚR.GAR
  DIŠ ina
                                                           ina
A^{-20}\,\textrm{l}
                                                                             - - 211
B 20 j
C 7'
D 6'
J 19
           Ina
                  Addari UD.25.KAM
                                          Ninsianna
                                                            ina
                                                                  sīt šamši itbal
                                                                                    MU
              KÙ.GLGA.KAM
```

```
ITI.SIG<sub>4</sub> UD.11.KAM <sup>d</sup>Nin-si<sub>4</sub>-an-na
                                                                            <sup>d</sup>utu.šú.a
         DIŠ
                                                                   ina
                                                                                           it-bal
                                                                                                         ITI
   A^{-22} [
                                                                                                         ITI
   B 22
   C 9.
                         - S[IG_A] -
   D 7'
   J 20
                                                                                                                   15 -
                                                  Ninsianna
                                                                            ereb šamši
                                                                      ina
                                                                                            ithał
                Ina
                       Simāni
                                   UD.11.KAM
                                                                                                         arhī n ūmī
                                                                                     ^{\mathrm{d}}\mathrm{Nin}\text{-}\mathrm{si}_{4}-an-na
                                                           ITLŠE
                                                                                                                <sup>d</sup>utu.È
                           AN-e
                                   uh-ha-ram-ma ina
                                                                      UD.n.KAM
                    ina
                                    uḥ-ḥa-ram-ma <sup>23</sup> [
                                                             HTI -
                                                                        - 15 -
                                   uḥ-ha-ram-ma <sup>23</sup>[
                В
                                    uh-ha-ram-ma 10' -
                                                                        - 15 -
                D
                                                                        - 16 -
                                   ZAL
                   ina
                           šamê
                                     uhharamma
                                                       ina
                                                              Addari UD.n.KAM Ninsianna
                                                                                                                sīt samsi
                                                                                                        ina
                    IGLDU<sub>8</sub>
                               LUGAL
                                                 LUGAL
                                                            LÚ.NE
                                          ana
                A
                                                          LÚ.NE
                В
                                                           SILIM,MA
                Ð
                                                            LÚ.NE
                                                            LÚ.NE
                                                             salta
                                                                       išappar. (var.: salīma išappar)
                   innamir:
                                šarru
                                                   šarri
12
         DIŠ
                                                   <sup>d</sup>Nin-si<sub>4</sub>-an-na
                                                                      ina
                                                                             dutu.È
                                                                                        it-bal
                                   UD.10.KAM
     24
   Α
      11
   C
      9'
  D
      22
   j
  F^{-1'}
                                                                                      11.
                                                                             sīt šamši itbal 2 arhī n ūmī
                Ina
                       Arahsamna UD.10.KAM
                                                    Ninsianna
                                                                      ina
                                                                                                                          ina
                                                                                      <sup>d</sup>uru.šú.a
                                                                                                     IGI.DU<sub>8</sub> EBUR
                   AN-e
                            uh-ha-ram-ma ina
                                                      ITI.AB
                                                                UD.16.KAM
                                                                               ina
                            uh-ha-ram-ma <sup>25</sup>[
                            Z\Lambda L
                J
                            ZAL
                                        m] a
                                                                                                       - DU<sub>8</sub>
                  _ _1[
                             uliharamma
                                                                               ina
                                                                                      ereb šamši innamir: ebūr
                   šarnê
                                               ina
                                                      Tebēti
                                                                UD.16.KAM
                   KUR
                           SI.SÁ
                C
                D
                           iššir.
                   māti
```

The Text 35

```
UD.26.KAM <sup>d</sup>Nin-si<sub>4</sub>-an-na ina
                                                                     <sup>d</sup>UTU.ŠÚ.A it-bal
13
      DIŠ
                                                                                           UD.11.KAM
  A 26 [
     13'
  C
  F 2'
      23 [
  J
                                                                     ereb šamši
                      Ulūli
              Ina
                               UD.26.KAM
                                             Ninsianna
                                                               ina
                                                                                   itbal
                                                                                             11 ūmī
                                                                                                         ina
                                                                                                               šamê
                                                                             <sup>d</sup>UTU.È IGLDU<sub>8</sub> ŠÀ
                 uh-ha-ram-ma ina
                                         ITI.KIN.2.KAM
                                                          UD.7.KAM ina
                                                                                                       KUR DÙG-ab
              A ] -
              C ZA[L
                ZAL
                 uhharamma
                                  ina
                                          Ulūli arkî
                                                          UD.7.KAM
                                                                       ina
                                                                             sīt šamši innamir: libbi māti
                                                                                                               itâb.
```

 d UTU.È it-bal UD.9.KAM ^dNin-si₄-an-na 14 ina ITI DIŠ ITI.BÁR UD.16.KAM ²⁸ [Α 15' C 3, [F 24 ina șīt šamši Ina Nisanni UD.9.KAM Ninsianna itbal 5 arhī 16 ūmī іна ^dUTU.ŠÚ.A IGI.DU₈ uh-ha-ram-ma UD.25.KAM ina AN-e ina r] am -C - [-ZAL K]IN uhharamma Ulūli UD.25.KAM ereb šamši innamir: libbi šamê ina ina DÙG-ab KUR C F

māti

iţâb.

```
TTLGUD UD.5.KAM <sup>d</sup>Nin-si<sub>4</sub>-an-na
                                                             <sup>d</sup>UTU.ŠÚ.A it-bal
15 DIŠ
             ina
                                                      ina
 (* 17° -
  F 4' 1
                                                                                 UD.7.KAM
  ъ i
                                                                              UD.7,KAM
  J 25 [
             Ina
                   Ajari
                             UD.5.KAM Ninsianna
                                                       ina ereb šamši itbal
                                                                                  7. ūmī
                                                                                                  šamê
                                                            <sup>d</sup>utu.k
               ZAL-ma ina ITL GUD UD.42.KAM ina
                                                                     \operatorname{IGLDU}_8 EBUR KUR SLSÁ
             C
                                5' 11]+1-
                                                                     SAR
                                - [
                                       - 12 -
                                                                ]-
                                                                     IGI = \phi
               uḥḥaramma ina [Ajari] UD.12.KAM ina ṣīt śamši innamir: ebūr māti
16 DIŠ
                                       <sup>d</sup>Nin-si<sub>a</sub> - [an-na] ina
                                                              <sup>d</sup>UTU.È
                  ITLAB UD.n. KAM
             ina
                                                                       it-bal
                                                                                                  AN-c
  C 18' -
                                       - - - | | 19' -
                    -A[B] - 20
  G^{-3'}
                    - 1-1 - 21 -
                                       -
  J 26 |
                   Tebēti UD.n.KAM Ninsi anna ina sīt šamši itbal 15 tīmī
             Ina
                                                                                                  šamė
                               ITLÁŠ
                                                        <sup>d</sup>UTU.ŠÚ.A
                                      UD.11.KAM ina
                                                                   [IGLDU] . . . }
             G
               uhharamma ina Šabāti -
                                      UDJIKAM ina ereb šamši [innamir:
17 biš
                   ITLDU<sub>6</sub>
                                        <sup>d</sup> Nin-si<sub>a</sub>-an-na
                                                              <sup>d</sup>UTUĒ it-bal 1 ITI UD.16.KAM [ina
                            UD.10.KAM
                                                       ina
  (^{-20}) .
                                                             - - - [i]t-[b]al -
                                                                                       - [-1K AM
  G^{-5'}
             Ina
                   Tašrīti
                            UD.10.KAM
                                        Ninsianna
                                                       ina
                                                             şīt šamši itbal / ITI UD.16.KAM [ina
                AN -e ZAL -ma ina
                                                UD.26.KAM
                                                                   <sup>d</sup>utu,šú,a
                                                                               IGLDU_8
                              ] 2 1'-
             C
             G
               šamė uhharamma] ina Arahsamna UD.26.KAM ina ereb šamši innamir: zunnū
               KUR GÁLMEŠ ub-[bu-tu
             C
             G
               māti ihaššu
                                 ub [butu - iššakkan].
```

```
dNin-si<sub>4</sub>-an-na
                                                                <sup>d</sup>UTU.È it-bal
      DIŠ
            ina
                  ITI.NE
                           UD.n.KAM
                                                         ina
                                                                                            UD.15.KAM
                                                                                  n
C 22'
                              20 -
G 7'
                              21
H^{-1}
                                          (traces)
                                         Ninsianna
                                                               sīt šamśi itbal n
                                                                                              15 ūmī
            Ina
                  Abi
                           UD.n.KAM
                                                         ina
                                                                                       arḥī
                                                                                                          ina
                                                                     <sup>d</sup>Nin-si₄-an-na
                                                                                              <sup>d</sup>utu.šú.a
               AN-[e]
                         uḥ-ḥa-ram-ma ina
                                                ITI.MN UD.5.KAM
                                                                                       ina
                         ZAL - ]<sup>23'</sup> -
                                                - fAPIN1 - -
                                                                           φφφ
                         uḥ-ḥa-ram-ma
                                                 - GAN
            H (traces)
               šamê
                         uhharamma
                                                                        Ninsianna
                                                                                              ereb šamši
                                         ina
                                                ITI.MN UD.15.KAM
                                                                                       ina
                         ŠÈG.MEŠ
                                           KUR GÁL.MEŠ ub-bu-tu
              IGI.DU<sub>R</sub>
                                    ina
                                                                          [GAR-an]
            C
            G
            H (traces)
               innamir:
                         zunnū
                                     ina
                                           māti
                                                   ibaššû
                                                              ubbutu
                                                                         [iššakkan].
```

```
d<sub>UTU.ŠÚ.A</sub>
                                                                             it-bal
                                                                                                    ina
                                        dNin-si<sub>4</sub>-an-na
      DIŠ
                                                          ina
            ina
                  ITI.MN
C 24'
G 10' -
                   - APIN
H 2' [
                                                                                        15 ūmī
                                                                                                           šamê
                                                                ereb šamši
                                                                              itbal
                                          Ninsianna
                                                          ina
            Ina
                  ITI.MN
                           UD.5.KAM
                                                                      d<sub>UTU.È</sub> IGI.DU<sub>8</sub>
                                                                                           ŠÈG.ME
                                                                ina
               [uḥ-ḥa-ram-ma] ina
                                         ITI.MN
                                                  UD.20.KAM
                           - ]<sup>25'</sup> - ]<sup>11'</sup> -
                                          - [NE]
                                                                     <->- ŠÚ.A -
            C ZAL
                                          - šu
                                                                          - È
            G
            H ≪ ina A[N-e≫ 3'[
                                                                      şît šamši innamir: zunnū
                                                                                                            šamê (u)
                                                                                                     ina
               [uḥḥaramma]
                                  ina
                                         ITI.MN
                                                  UD.20.KAM ina
               A.KAL.ME
                            ina
                                  IDIM
            C - - ME
            G - - [
               ] MEŠ
               mīlū
                            ina nagbī
                                          ibašsû
```

H 8, [

```
<sup>d</sup>Nin-si<sub>a</sub>-an-na
20
         DIŠ
                      ITI.ŠE
                                                                      d<sub>UTU.È</sub>
               ina
                               UD.15.KAM
                                                               ina
                                                                                 it-bal
  C 26' -
  G^{-12'}
                                                                                 - b[al
   H 4' İ
                                                                           יגזן
                                                                                         2
                                                                                                      - 7 -
               Ina
                      Addari UD.15.KAM
                                               Ninsianna
                                                               ina
                                                                      șīt šamši itbal
                                                                                              arhī
                                                                                                      n ūmī
                                                                                                                  ina
                                                                                    <sup>d</sup>utu.šú.a
                  AN-[e
                                                                                                 IGI.DU<sub>8</sub>
                            uh-ha-ram-ma
                                              ina
                                                     ITI.MN
                                                               UD.25.KAM
                                                                             ina
                                      -ma] <sup>27</sup> -
                                                      - SIG<sub>4</sub>
               G
               H - [
                                             5'
                  šamê
                           [uhharamma]
                                              ina
                                                      ITI.MN
                                                              UD.25.KAM
                                                                            ina
                                                                                   ereb šamši
                                                                                                 innamir: miqitti
                  ERÍN
                                                ŠUB-tim
                           man-da
                                      KI.MIN
               C
               G
               Н
                  ummān-manda:
                                               miqitti
                                              dNin-si<sub>4</sub>-an-na
                                                                        dutu.šú.a]
21
        DIŠ
                       ITI.ŠE
                                                                                        it-bal
                ina
                                                                [ina
                               UD.10.KAM
   C 28'
                                                                                      ' -' [ba]!
   H 6' [
                                                                                        i}t -
                      Addari UD.10.KAM
                                               Ninsianna
                                                                        ereb šamši]
                                                                                        itbal
               Ina
                                                                 ina
                                                                                                 4 ūmī
                                                                                                             ina
                                                                                                                    šamê
                                                                            <sup>d</sup>UTU.È
                   uḥ-ḥa-r [am-ma] ina
                                             ITI.ŠE
                                                      UD.14.KAM
                                                                                      [IGI.DU<sub>8</sub>]
                                                                                                   EBUR
                                                                                                            KI.A
                                                                                                                    SI.SÁ
                                                                     ina
                              -ma] <sup>29'</sup> -
                C ZAL
                                                                                                 7' LUGAL
                H uh-ha-r[am-ma
                                                                                                            ana
                                                                                                                   LUGAL
                   uhhar [amma]
                                                                           sīt šamši [innamir] (šarru
                                             Addari UD.14.KAM ina
                                                                                                                   šarri
                                      ina
                   ŠÀ
                                KUR
                                           DÙG-ab
                C -
                H SILIM.MA
                                KI]N-ár
                                           E BUR
                  salīma
                               išappar)
                                           ebūr
                                                    ruțibti
                                                              iššir
                                                                     libbì māti
                                                                                     itâb.
S_1
       30'
                        (illegible traces)
```

```
<sup>d</sup>Nin-si<sub>4</sub>-an-na ina <sup>d</sup>UTU.È IGI.DU<sub>8</sub> ú-ru-ba-a-tum ina KUR
22 DIŠ ina ITI.BÁR UD.2.KAM
 C 31' .
                                                    H 9' [
                                              ina sīt šamši innamir: urubātu ina māti
      9
          Ina Nisanni UD.2.KAM Ninsianna
            GÁL.MEŠ EN
                                                   <sup>d</sup>UTU.È DU-az UD.7 šá ITI.GAN
                          UD.6.KAM šá ITI.GAN
                                              ina
          C - 32'-
          H - - E[N
             ibaššā; adi UD.6.KAM ša Kislimi ina sīt šamši izzaz UD.7 ša Kislimi
           i-tab-bal-ma 3 ITI ina AN-e uḥ-ḥa-ram-ma UD.8.KAM sa ITI.SE dNin-si<sub>4</sub>-an-na
          C - - -
                                    A]N-
                        3 arḥī ina šamê
                                                       UD.8.KAM ša Addari Ninsianna
             itabbalma
                                           uhharamma
                 <sup>d</sup>UTU.ŠÚ.A
                            SAR -ma
                                   LUGAL ana
                                                 LUGAL SAL.KÚR KIN-ár
          C -
          Н
            ina ereb šamši inappahma: šarru ana šarri
                                                        nukurta
                                                                 išappar.
```

23 DIŠ	ina ITI.GUD UD.3.KAM ^d Nin-si ₄ -an-na ina ^d UTU.ŠÚ.A IGI.DU ₈ SAL.KÚR.MEŠ ina	ι
H '11'[] Ina Ajari UD.3.KAM Ninsianna ina ereb šamši innamir: nukurātu ina	ĭ
	KUR GÁL.MEŠ EN UD.6.KAM šá ITI.AB ina dutu.šú.A DU-az UD.7.KAM šá C - <	
	ITI.AB i-tab-bal-ma UD.7.KAM ina AN-e uḥ-ḥa-ram-ma UD.15.KAM šá ITI.AB C 36'	
	d'Nin-si ₄ -an-na ina d'UTU.È SAR-ma EBUR KUR SI.SÁ ŠÀ KUR DÙG-ab C 37' S[AR Ninsianna ina ṣīt šamši inappaḥma: ebūr māti iššir libbi māti itāb.	

24 DIŠ C 38' [H 13' [ina ITI.SIC IT]I -	G ₄ UD.[4].KAM [*] - [] -	^d Nin-si ₄ -an	ı-na ina 	d _{UTU.È}	IGI.DU ₈ 	RI.RI.GA	ERÍN - -
	Ina Simār	uD.[4].KAM	Ninsian na	ina	ı şīt šamš	i innamir:	miqitti	ummāni
	ma-at-ti	EN UD.8.KAM 9'г_ 1	šá ITI.ÁŠ	ina d	UTU.È DI	/-az UD.8	.KAM šá	ITI.ÁŠ
	H matti;	adi UD.8.KAM	 ša Šabāţi	[ina și	ît šamši iz	z <i>az</i> UD.8	.KAM ša	Šabāţi
	i-tab-bal- C H itabbalmu	- 40'[] -		uḥ-[ḥa] -ī - [- ī] uḥ[ḥa] ra]am ·	D.9.KAM D.9.KAM	šá ITI.GU ša <i>Ajari</i>	T D
	d _{Nin-si₄} -C Ninsianna	an-na ina ^d U' 41'	ΓU.ŠÚ.A SAR · · · · · · [· · <i>samši inap</i>				JR GÁL.M - āti ibašsā	.]

^{*}Day 4 restored from Iqqur īpuš, see Appendix A.

```
<sup>d</sup>Nin-si<sub>4</sub>-an-na ina <sup>d</sup>UTU.ŠÚ.A IGI.DU<sub>8</sub> SAL.KÚR.MEŠ ina
25 [DIŠ ina ITI].ŠU UD.5.KAM
 C 42'[
 H 15'
 ו יו
                                   •
           [Ina] Du'ūzi UD.5.KAM
                                  Ninsianna ina ereb šamši innamir: nukurātu
            KUR GÁL.MEŠ EBUR KUR SI.SÁ EN
                                                   UD.n.KAM šá ITI.ŠE ina
           C -
                                                    - 9
           н .
           L
            māti
                   ibaššā
                            ebūr
                                   māti iššir; adi UD.n.KAM ša Addari ina ereb šamši
           DU-az UD.10.KAM šá ITI.ŠE TÙM-ma UD.7.KAM ina AN-e uḥ-ḥa-ram-ma
                                   - i-tab-bal-[ma<sup>3</sup>
           r lu
            izzaz UD.10.KAM ša Addari itabbalma 7 ūmī ina šamê uhharamma
             UD.n.KAM šá ITI.ŠE <sup>d</sup>Nin-si<sub>4</sub>-an-na ina <sup>d</sup>UTU.È SAR-ma LUGAL ana LUGAL
           C - 18 -
           H U]D.17 -
                                        ] - -
             UD.n.KAM ša Addari Ninsianna ina sīt šamši inappahma: šarru
                                                                                   šarri
            SAL.KÚR KIN-ár
           Н
           nukurta išappar.
```

14

```
[DIŠ ina ITI.] NE UD.6.KAM <sup>d</sup>Nin-si<sub>4</sub>-an-na ina
                                                                  <sup>d</sup>utu.è igi.du<sub>8</sub> šèg.me
C 1.1
                                            N]in - - -
¶ [Ina] Abi
                               UD.6.KAM Ninsianna
                                                            ina sīt šamši innamir: zunnū
               GÁL.MEŠ
C - MEŠ
                             ub-bu-tu GÁL-ši EN UD.10.KAM šá ITI.BÁR ina <sup>d</sup>UTU.È DU-az
               H - ME
                                                       U[D
                                                                                              יין . .
  ibaššû ubbutu ibašši; adi UD.10.KAM ša Nisanni ina șīt šamši izzaz
                                    ITI.BÁR i-tab-bal-ma 3 ITI ina
     1.551 UD.11.KAM
               Η
                                   Nisanni itabbalma 3 arhī ina šamê uḥḥaramma UD.11.KAM ša
                  UD.11.KAM ša
\text{JACKA} \quad \text{$| \text{ITLŠU} |} \quad \text{$^{d}$Nin-si}_{4}$-an-na \quad ina \quad \ ^{d}$UTU.\r{S}\'{U}.A \quad SAR-ma \quad SAL.K\'{U}R.ME \quad ina \quad KUR \quad G\'{A}L.ME
                                   a]n ·
               M^{(1)}[\mathbb{R}^n] = \operatorname{distribution}
                                           ina ereb šamši inappaļma: nukurātu ina māti ibaššâ
                  Du'ūzi Ninsianna
                  EBUR KUR SI.SÁ
                  ebūr
                          māti
                                  iššir.
```

```
<sup>d</sup>Nin-si<sub>4</sub>-an-na
                                                                   <sup>d</sup>utu.šú.a
27
         DIŠ
               ina
                      ITI.KIN
                                UD.7.KAM
                                                            ina
                                                                                IGI
                                                                                     EBUR
                                                                                              KUR
  C
  Н
  L
      2'
  M
              [Ina]
                      Ulūli
                                UD.7.KAM
                                             Ninsianna
                                                                   ereb šamši innamir: ebūr māti iššir
                 KUR
                        DÙG-ab
                                                          ITI.GUD
                                                                     ina
                                                                                        DU-az
                                        UD.11.KAM
              C
              Н
              L
              M
                                                          IT]I -
                 mãti
                        iţâb;
                                        UD.11.KAM ša
                                                           Ajari
                                                                           ereb šamši
                                                                                                 UD.12.KAM ša
                                                                     ina
                                                                                         izzaz
                            i-tab-bal-ma
                                           7
                                              UD-mi
                                                                                                       IT1.GUD
                                                              AN-e
                                                                     uḥ-ḥa-ram-ma
              C
                                              UD-mi
              Н
                                                                                                          G]UD
                                            UD.7.KAM
              M
                                                                      uḥḥaramma
                 Ajari
                            itabbalma
                                           7 ūmī
                                                       ina
                                                             šamê
                                                                                     UD.19.KAM
                                                                                                        Ajari
                 dNin-sia-an-na
                                                  SAR-ma
                                                            SAL.KÚR.MEŠ
                                                                                         GÁL.MEŠ
                                  ina
                                                                                           - MEŠ
              H -
              M
                            n]a
                                                                                           - ME
                                        sīt šamši inappahma: nukurātu
                                                                                  māti
                                                                                          ibaššâ.
                 Ninsianna
                                  ina
                                                                            ina
```

^{*}Day of last visibility I 10 in Iqqur īpuš, see Labat Calendrier p. 259.

```
ITI.DU<sub>6</sub> UD.8.KAM <sup>d</sup>Nin-si<sub>4</sub>-an-na ina
                                                                    <sup>d</sup>utu.è igi.du<sub>8</sub> sal.kūr.meš
      [DIŠ ina]
C 9
H 21'
                                                                                                            1
L 10'
M 4' [
            [Ina]
                     Tašrīti
                               UD.8.KAM
                                             Ninsianna
                                                              ina
                                                                   sīt šamši innamir: nukurātu
                                                                                                           ina
                                                                                   ITI.SIG<sub>4</sub>
               KUR
                      GÁL.ME
                                EBUR
                                          KUR SI.SÁ EN
                                                               UD.12.KAM šá
                                                  . . 10 .
                                                      ] 22'
                         - MEŠ
            Н
                                                                                  (traces)
            M
                                                          E|N
               māti
                       ibaššā
                                           māti iššir;
                                                          adi UD.12.KAM
                                                                                   Simāni
                                                                                                     sīt šamši
                                            ITI.SIG<sub>4</sub> i-tab-bal-ma 3 ITI ina
               DU-az
            \mathbf{C}
            Н
            L
                ] -
            M - \phi^{5}
               izzaz
                         UD.13.KAM ša
                                            Simāni
                                                       itabbalma 3 arhī ina
                                                                                      šamê
                                                                                               uhharamma
                                             d<sub>Nin-si<sub>4</sub>-an-na ina</sub>
                                                                    <sup>d</sup>utu.šú.a
                                   ITI.KIN
                                                       . . 12
            Н
            L
                                                         n]a
                                                                                              E BUR
                                   Ulūli
                                             Ninsianna
                                                                     ereb šamši
                                                                                  inappahma: ebūr māti
               UD.13.KAM
                             ša
                                                             ina
                     ŠÀ
               SI.SÁ
                            KUR
                                    DÙG-ab
            \mathbf{C}
            H
            L
```

iššir libbi māti itāb.

```
29 [DIŠ ina] ITI.APIN UD.9.KAM <sup>d</sup>Nin-si<sub>4</sub>-an-na ina <sup>d</sup>UTU.ŠÚ.A IGI KUR SAL.KALA.GA
  C^{-13}
                    - [AP]IN - - -
  L 13' [
                                        ] - - -
  M 7' j
            [Ina] Arahsamna UD.9.KAM Ninsianna
                                                      ina ereb šamši innamir: māta dannatu
              DIB-bat EN UD.n.KAM šá ITI.ŠU ina <sup>d</sup>UTU.ŠÚ.A DU-az
                                                                            UD.14.KAM šá
                                                                                            ITI.ŠU
                             [1] ·
                               x]+2
              isabbat; adi UD.13.KAM ša
                                            Du'ūzi ina
                                                         ereb šamši
                                                                     izzaz
                                                                            UD.14.KAM ša
                                                                                            Du 'ūzi
                                                                                 ITI.ŠU dNin-si<sub>4</sub>-an-na
              i-tab-bal-ma UD.7.KAM ina AN-e uh-ha-ram-ma
                                                                 UD.21.KAM šá
            M<sup>8</sup>'[
                                                                                                  n]a
              itabbalma
                                      ina šamê uhharamma UD.21.KAM ša Du'ūzi
                            7 ūmī
                                                                                          Ninsianna
                    <sup>d</sup>UTU.È SAR-ma
                                      SAL.KÚR.MEŠ
                                                          KUR GÁL.MEŠ EBUR KUR SI.SÁ
                                                    ina
            C^{16} -
            L15'
                                            - M EŠ
            М -
              ina
                    şīt šamši inappahma: nukurātu
                                                     ina māti ibaššâ
                                                                           ebūr
                                                                                  māti iššir.
                                        <sup>d</sup>Nin-si<sub>4</sub>-an-na ina
                                                             <sup>d</sup>UTU.È IGI
30
    [DIŠ]
                                                                             SU.KÚ ŠE u IN.NU
             ina
                    ITI.GAN
                             UD.10.KAM
  C^{-17} [
  M 9'
              Ina
                   Kislimi
                             UD.10.KAM
                                       Ninsianna
                                                       ina
                                                             sīt šamši innamir: hušahhi še'i u tibni
                                                                     dUTU.È DU-az
                    KUR GÁL-ŠI EN
                                       UD.14.KAM
                                                        ITI.NE
                                                               ina
                                                                                      UD.15.KAM šá
              ina
                          - - 18 -
            C -
                            - [-] <sup>10</sup>'[
                    māti ibašši; adi UD.14.KAM ša
                                                        Abi
                                                                    sīt šamši izzaz
                                                               ina
                                                                                      UD.15.KAM ša
               ITI.NE i-tab-bal-ma ITI 3 ina AN-e
                                                        uh-ha-ram-ma
                                                                      UD.15.KAM šá
                      . . . . 19 .
            M I]TI - - - m[a]^{11}
                      itabbalma 3 arhī ina šamê uhharamma
                                                                      UD.15.KAM ša Arahsamna
               Abi
              <sup>d</sup>Nin-si<sub>4</sub>-an-na ina
                                   <sup>d</sup>UTU.ŠÚ.A SAR-ma
                                                        EBUR KUR SI.SÁ
            S[I - ]
                      a]n -
              Ninsianna ina sīt šamši inappahma: ebūr māti iššir.
```

```
<sup>d</sup>Nin-si<sub>4</sub>-an-na
                                                                         <sup>d</sup>utu.šú.a
31
         DIŠ
               ina
                      ITI.AB UD.11.KAM
                                                                  ina
                                                                                       IGI
                                                                                              EBUR
  C 21 -
  M^{r,1}
         \P
               Ina
                      Tebēti UD.11.KAM
                                               Ninsianna
                                                                  ina
                                                                        ereb šamši innamir: ebūr māti iššir; adi
                                                         <sup>d</sup>UTU.ŠÚ.A DU-az
                  UD.15.KAM
                                  šá
                                       ITI.KIN
                                                  ina
                                                                                UD.16.KAM šá
                                                                                                     ITI.KIN
                                                                                                               i-tab-bal-ma
                                                                        -a[z]^2
               M ] - -
                  UD.15.KAM
                                        Ulūli
                                                  ina ereb šamši izzaz
                                                                                UD.16.KAM
                                                                                                     Ulūli
                                                                                                                itabbalma
                                                                                                 <sup>d</sup>Nin-si<sub>a</sub>-an-na
                                                uh-ha-ram-ma
                                                                                       ITI.KIN
                  UD.7.KAM
                                       AN-e
                                ina
                                                                  UD.23.KAM
               C^{23} - -
               M
                                                                                          K]IN
                   7 ūmī
                                       šamê
                                                 uhharamına
                                                                  UD.23.KAM ša
                                                                                       Ulūli
                                ina
                                                                                                   Ninsianna
                                                                                                                    ina
                   dUTU.È
                             SAR-ma
                                             EBUR
                                                      KUR
                                                              SI.SÁ
                                                                      ŠÀ
                                                                              [KUR]
                                                                                        DÙG.GA
                             KUR -
               M - - -
                                               -
                                                      K [UR
                             SAR
                  sīt šamši inappahma: ebūr māti
                                                             iššir
                                                                      libbi [māti]
                                                                                         iţâb.
                                UD.12.KAM <sup>d</sup>Nin-si<sub>4</sub>-an-na ina
                                                                         <sup>d</sup>UTU.È
                                                                                                           [SI].SÁ EN
32
         DIŠ
                                                                                    IGI
                                                                                          EBUR
                                                                                                   KUR
   C 25 -
                                                                                                           [][.126-
   M<sup>3</sup> [
                       Šabāti
                                 UD.12.KAM Ninsianna ina sīt šamši innamir: ebūr māti
                                                                                                           iššir :
                                                                                                                     adi
                Ina
                                                                                                   \begin{array}{ccc} \text{ITI.DU}_6 & \text{T[\dot{U}M-ma]} \\ \text{-} & \text{-} & \text{T[\dot{U}M]} \end{array}
                                                           <sup>d</sup>UTU.È
                                        ITI.DU<sub>6</sub>
                   UD.16.KAM
                                                   ina
                                                                     DU-az
                                                                               UD.n.KAM šá
                                                                                 - 17 -
                c \cdot \cdot \cdot
                                                                                                    - D[U<sub>6</sub>
                                                                                 - 16 -
                M ] - -
                                                                                                   Tašrīti itabbal [ma]
                                        Tašrīti
                                                          sīt šamši izzaz
                                                                               UD.17.KAM ša
                   UD.16.KAM
                                  ša
                                                   ina
```

šamê

uh-lıa-ram-ma

uhharamma -

3 ITI ina

3 arhī ina

 C^{27} - -

 M^4

UD.17.KAM

UD.17.KAM ša

šá

ITI.AB

Tebēti

dNin-si_a-an-na ina

- · · · [] ²⁸ ·

Ninsianna

] -

```
<sup>d</sup>Nin-si<sub>4</sub>-an-na ina
                                                      <sup>d</sup>utu.šú.a igi lugal.meš [
     DIŠ
          ina
               ITI.ŠE UD.13.KAM
C 29 -
M
                                  Ninsianna ina ereb šamši innamir: šarrāni
          Ina
               Addari UD.13.KAM
                                                                                             ]:
                                                <sup>d</sup>UTU.ŠÚ.A DU-az UD.n.KAM šá ITI.APIN
                                 ITI.APIN ina
                  UD.16.KAM šá
           adi UD.16.KAM ša Arahsamna ina ereb šamši izzaz UD.17.KAM ša Arahsamna
            [TÙM-ma] UD.7.KAM
                                   ina
                                               uh-ha-ram-ma UD.25.KAM šá
                                        AN-e
          [itabbalma] 7 ūmī
                                   ina šamê
                                                uhharamma
                                                             UD.25.KAM ša Arahsamna
           <sup>d</sup>Nin-si<sub>4</sub>-an-na ina <sup>d</sup>UTU.È SAR-ma
                                                   KUR SAL.KALA.GA DIB-bat
          C - - a[n]^{32}
          M - - - <sup>7</sup>[
                                                   KU]R
          N<sup>1</sup> (illegible traces)
             Ninsianna ina sīt šamši inappahma: māta dannatu
                                                                       isabbat.
```

```
UD.1.KAM <sup>d</sup>Nin-si<sub>a</sub>-an-na
                                                                            <sup>d</sup>UTU.ŠÚ.A
34
         DIŠ
                                                                    ina
                                                                                       it-[bal]
               ina
                      ITI.KIN.2.KAM
   B 2'
   C
      34
                                                                                                      - 15 -
      9
   M
                                                                                                       116 -
      3'
   N
                                            KA]M
                     Ulūli arkī
                                       UD.1.KAM
                                                                     ina ereb šamši
                                                                                          it [bal]
                                                   Ninsianna
                                                                                                    n ūmi
               Ina
                                                                                                                 ina
                                                 ITI.KIN.2.KAM UD.n.KAM dNin-si, -an-[na] ina
                                                                                                          d<sub>UTU.È</sub>
                          uh-ha-ram-ma
                                           ina
               В
                            ]-ha-ram-ma<sup>3</sup> [
                                                                                             ] <sup>36</sup> -
               C
                 - - ZAL
                                    -ma
                                                                        hi-pí eš-šú
               M - - uh-ha-ram-ma
               N ] ZAL
                                    -ma
                                                                   - 14 -
                                                                               -N[in
                  šamê uhharamma
                                           ina
                                                  Ulüli arkî
                                                                   UD.n.KAM Ninsianna
                                                                                                   ina șīt šamši
                  IGI GÁN.ZI
                                                             KUR
                                                                    SUD-ti
                                                                                            E.GAL
                                                                                                     GU.LA
                                          MU
                                                       ina
               C
                            φ
               M
                                                                    SUID -
                                                                      . . . . . .
                                                            māti
                                                                              ibašši
                  innamir: mērešu iššir
                                                       ina
                                                                     rūqti
                               UD.25.KAM <sup>d</sup>Nin-si<sub>4</sub>-an-na
35
                                                                      <sup>d</sup>utu.È
        DIŠ
                     ITI.SIG,
                                                               ina
                                                                               it-bal
                                                                                             ITI
                                                                                                   UD.n.KAM
  B 4'
  C 37
                                                                                 - ba[l] 38-
                                                                                                     - 6
  M^{-11}
                                                                                  b] al
                                                                                                     - 16
                                                                                         2 arhī
                     Simāni
                               UD.25.KAM
                                              Ninsianna
                                                               ina sīt šamši itbal
                                                                                                    n ūmi
                                                                                                                ina
                                                                                   dNin-si<sub>a</sub>-an-na
                          uḥ-ḥa-ram-ma ina
                  AN-e
                                                 ITI.KIN
                                                           UD.n.KAM
                          uh-ha-[
               C
                                                             -24
                          ZAL-
                                    ma
                                                                                                       ]
                          uh-ha-ram-ma
                                                             -14 - UD.[x].KAM [UD<sup>?</sup>][
                          ZA]L-
                          uḥḥaramma
                  šamê
                                                  Ulūli
                                                           UD.n.KAM
                                                                                   Ninsianna
                                           ina
                                                                                                      ina
                  <sup>d</sup>utu.šú.a
                             IGI
                                    ŠÀ
                                          KUR
                                                  DÙG-ab
              В
                 ereb šamši innamir: libbi māti itâb.
```

```
<sup>d</sup>Nin-si<sub>a</sub>-an-na ina <sup>d</sup>UTU.ŠÚ.A it-bal UD.7.KAM
36
              ina ITI.BÁR UD.n.KAM
    DIŠ
  B 6' [
  C 40
                               - 27 -
  M <sup>13</sup> Γ
                                                                                                     լլ. յ
                           ] - 127 - UD,28.KAJM
                                                                      ina ereb šamši
                   Nisanni UD.n.KAM
                                                      Ninsianna
                                                                                          itbal
                                                                                                  7 ūmī
                                                    ITI.GUD UD.3.KAM <sup>d</sup>Nin-si<sub>4</sub>-an-na ina
                              uḥ-ḥa-ram-ma ina
              C
              M [ ]
              N
                                                                                                  [sīt šamši]
                ina
                              uhharamma
                                               ina
                                                     Ajari
                                                               UD.3.KAM
                       šamê
                                                                           Ninsianna
                                                                                            ina
                      SAL.KÚR.ME ina
                                          KUR GÁL.ME EBUR
              C
                                                       ME
              M
                                                      IMEŠ
                innamir: nukurātu ina
                                          māti
                                                  ibaššâ
                                                            ebūr
```

```
ITI.MN UD.n.KAM] <sup>d</sup>Nin-si<sub>a</sub>-an-na ina <sup>d</sup>UTU.È it-bal [2 ITI ina
      DIŠ
B 8'
C 48
N 10'
                   Tebēti UD.28.KAM]
                                                          ina sīt šamši itbal [2 arhī ina
            [Ina
                                         Ninsianna
             uh-ḥa]-ram-ma [ina]
                                        ITI.ŠE UD.28.KAM <sup>d</sup>Nin-si<sub>4</sub>-an-na ina [<sup>d</sup>UTU.ŠÚ.A IGI]
            C
                     ZAL-ma]
             uḥḥa] ramma
                                                                             ina [ereb šamši innamir]:
                                 ina
                                        Addari UD.28.KAM
                                                             Ninsianna
                                        LÚ.NE
              LUGAL
                        ana
                               LUGAL
                                                 KIN-ár
           В
           C
              šarru
                        ana
                               šarri
                                         salta
                                                 išappar.
```

```
S<sub>3</sub> C 46 [
                                                           LIBIR.RA-šu 47
                           ] x x [
                                            ki-i
                                                                                                     ] (traces)
                                               kî
                                                            labīrišu
                                                      рī
S<sub>4</sub> N 12'[
                                                                        ] 13'[
                                        ] ZU AM
                                                                                          ] TA ki-iṣ-ri x [
                                                      AM [
S<sub>5</sub> K 5' [
                            ] <sup>d</sup>Nin-si<sub>4</sub>-an-na a-ḥu-t[um]
                                                                          <sup>d</sup>UTU.È [it-bal]
                                   <sup>d</sup>Nin-si<sub>4</sub>-an-na
          DIŠ ina
                       ITI.BÁR
                                                     UD.8.KAM
                                                                                                 5 ITI.MEŠ UD.n.KAM
                                                                                                                  - 17 -
                        IT]I -
                                                                          \ldots [ ]<sup>7</sup>'[_X]<sub>1</sub>.
                                                                                                                  - 18 -
                                                                          sīt šamši [itbal] 5 arhī
                                                                                                                 n ūmī
                Ina
                        Nisanni
                                     Ninsianna
                                                      UD.8.KAM ina
                                                                                                              d [UTU.ŠÚ.A
                                   uh-hi-ram-ma ina
                                                                      UD.n.KAM
                                                                                    dNin-si<sub>4</sub>-an-na ina
                           AN-e
                                                            ITI.KIN
                    ina
                                                                       - 25 -
                T
                P
                                                                       - 24 -
                                                              _ [_ 1
                                      ZAL-ma
                                    uḥḥiramma
                                                                                                               [ereb šamši
                    ina
                           šamē
                                                     ina
                                                             Ulūli
                                                                      UD.n.KAM
                                                                                    Ninsianna
                                                                                                       ina
                   IGI.DU<sub>8</sub> ŠÀ
                                      KUR DÙG-ab]
                T
                P
                K
```

innamir: libbi māti

itâb].

```
dNin-si4-an-na
                                                             <sup>d</sup>UTU.[ŠÚ.A it-bal] UD.6.KAM
     DIŠ
           ina
                 ITI.BÁR
                                           UD.n.KAM
                                                        ina
T
                                             - 26 -
P
                                             - 26 -
                                                              -[
                    BÁIR
K
                                             - 27 -
                                                                    È
                                                                                    UD.6.KAM ina šamê
                                           UD.n.KAM
                                                             ereb šamši
                                                                           itbal
           Ina
                 Nisanni
                            Ninsianna
                                                       ina
                                                        <sup>d</sup>Nin-si<sub>4</sub>-an-na
             uh-hi-ram-ma
                             ina
                                   ITI.GUD
                                             UD.3.KAM
                                                                        ina
           P
                                                                                  - È
                                   ITII -
           K
                                      1 -
                                                                                  - (ŠÚ.A) [
              uhhiramma
                                    Ajari
                                                         Ninsianna
                                                                               sīt šamši innamir:
                             ina
                                             UD.3.KAM
                                                                         ina
              nu-ku-ra-a-[tum
                               ina
                                     KUR
                                            GÁL.ME
                                                     EBUR
                                                            KUR
                                                                     SI.SÁ1
           P [
           K
             nukurā [tu
                                ina
                                     māti
                                             ibaššâ
                                                      ebūr
                                                              māti
                                                                      iššir].
```

```
dNin-si<sub>4</sub>-an-na
                                                              <sup>d</sup>UTU.ŠÚ.A
     DIŠ
                 ITI.GUD
           ina
                                            UD.2.KAM
                                                        ina
                                                                         [it-bal] UD.n.KAM
                                                                                                       AN-e
P
                    GJUD
                 IT ]I -
           Ina
                  Ajari
                            Ninsianna
                                            UD.2.KAM
                                                        ina
                                                             ereb šamši
                                                                          [itbal]
                                                                                      n ūmī
                                                                                                      šamê
                                                                           d<sub>UTU.È</sub>
              uh-hi-ram-ma
                             [ina ITI.]GUD UD.n.KAM
                                                                    ina
                                                                                     IGI-ir
                                                                                             ŠÈG u
           T
           P
                                        G]UD UD.28.KAM: UD.18.KAM -
             uḥḥiramma
                              [ina] Ajari
                                               UD.n.KAM
                                                                     ina
                                                                           șīt šamši innamir: zunnu u
            A. [KAL GÁL.ME
                                 EBUR
                                         KUR
                                                SI.SÁ]
           ןניו ד
           P
           K
             mī [lu ibaššû
                                  ebūr
                                                iššir].
                                          māti
```

```
[ITI].GUD dNin-si<sub>4</sub>-an-na
                                                                d<sub>UTU.ŠÚ.A</sub>
           ina
                                              UD.5.KAM ina
                                                                             [it-bal] UD.n.KAM
                                                                                     11 ][7] -
K 12'
                      Glud
Viri
                                                                                   ] 2'ITI.6.K [AM*
                                                                ereb šamši
           Ina
                  Ajari
                               Ninsianna
                                              UD.5.KAM
                                                                             [itbal]
                                                                                         7 ūmī
                                                                                                    ina
                                                          ina
                                            ITI.GUD UD.12.KAM] dNin-si4-an-na
                      uh-hi-ram-m[a
                                                                                   ina
                                     ina
                                                                 12
           T
                       - - - m[a
                                     1 3'
           K
                                                           K]AM
                                    1^{3'} ina
                                            ITI.SIG<sub>4</sub>
           V
                                                                                         sīt šamši innamir:
              šamê
                                      ina
                                             MN
                                                       UD.12.KAM
                                                                   Ninsianna
                      uhhiramma
                                                                                    ina
              EBUR
                      KUR S1.SÁ
           T
           K
              ebür
                      māti
                             iššir.
```

```
ITI.SIG<sub>4</sub> "Nin-si<sub>4</sub> "...

] [. . '[] . . .
                            <sup>d</sup>Nin-si<sub>a</sub>-an-na
                                                                  <sup>d</sup>UTU.È it-bal n ITI]
    DIŠ
                                             UD.n. [KAM ina
           ina
                                                                                                        UD.n.KAM
T 13
                                              1.1
K 14'[
                                               - x[
V 5'
                                                                                | 6' ina UD**.1.KAM
                              MUL Dil-bat
                                                                                                       UD.9[
                                                                  sīt šamši itbal n
                                                                                        arhī
            Ina
                  Simāni
                             Ninsianna
                                              UD.n.KAM
                                                            ina
                                                      ITI.KIN UD]n.KAM ina <sup>d</sup>UTU.ŠÚ.A [IGI
                               uḥ-ḥi-ram- [ma
               [ina
                      AN-e]
                                              ina
            T
            K
            V
                           ] 7' - - ra [
                                                                                 J 17 -
                      šamê ulihiram [ma
                                                       Ulūli
                                                                UD].n.KAM ina ereb šamši [innamir:
              ina
                                                ina
                   KUR DÙG-ab]
            T
            K
              libbi māti itâb].
```

^{*}ITI.6.K[AM] (V) error for UD.6.KAM.

^{**}UD (V) error for ITI.

```
d<sub>UTU.È</sub>
[DIŠ
      ina
            ITI.ŠU]
                      dNin-si_-an-na
                                        [UD.n.KAM
                                                                      it-bal n
                                                     ina
                                                                                  ITI
                                                                                        UD.n.KAM
                       MUL Dil-bat
                                                                            l<sup>10</sup>(traces)
                        Ninsianna
     [ina Du'ūzi]
                                        UD.n.KAM
                                                     ina
                                                           sīt šamši
                                                                       itbal n
                                                                                         n ūmī
                                                                                                    ina
                                                                     <sup>d</sup>utu.[šú.a
        AN-e uh-hi-[ram-ma
                                 ina
                                        ITI.MN
                                                 UD.n.KAM]
                                                              ina
        11' - h[i
                                                                     -UT[U
        šamê] uḥḥi [ramma
                                 ina
                                                                   [ereb] šamši [innamir . . .
                                        MN
                                                 UD.n.KAM]
                                                             ina
```

```
[dNin-sia-an-na
                                                                <sup>d</sup>UTU.È] it-bal
     DIŠ
            ina
                  ITI.ŠU
                                           UD.n.KAM
                                                          ina
                                                                                    UD.n.KAM
                                                                                                        AN-e
  13'
                                                                        ] 14'- b[al
Q 1' [
           Ina
                  Du'ūzi [Ninsianna
                                                                sīt šamši] itbal
                                             UD.n.KAM ina
                                                                                    [n ūmī
                                                                                                  ina
                                                                                                        šamê
                                                                     <sup>d</sup>utu.šú.a
                                      ITI.MN
                                                [UD.n,KAM]
              uh-hi-ram-ma]
                                                              ina
                                                                                   [IGI
                                ina
           V
                                       · Š[U
                                                                     - UT U
                                                                           š]Ú-
              uhhiramma]
                                ina
                                       MN
                                                [UD.n.KAM]
                                                              ina
                                                                     ereb šamši
                                                                                   [innamir . .
```

```
dNin-si<sub>4</sub>-an-na
                   ITI. NE
                                             UD.n.KAM ina]
                                                                   <sup>d</sup>UTU.ŠÚ.A it-bal
                                                                                          [UD.n.KAM
                                                                                                              AN-e
                                                                             ] 18'- [
Q 2'
                                                                                  - b[al
            Ina
                   Abi
                             Ninsianna
                                               UD.n.KAM
                                                           ina]
                                                                   ereb šamši
                                                                                 itbal
                                                                                          [n ūmī
                                                                                                       ina
                                                                                                              šamê]
               uh-[hi-ram-ma
                                                UD.n.KAM ina
                                                                   d<sub>UTU.È</sub>
                                ina
                                       ITI,MN
                                                                              [GI]
                                                                                     ŠÈG.MEŠ
                                                                                                       AN-e
            V^{19,t-1}
                                                          ]<sup>20'-21'</sup>(traces)
                                    3'
            Q
                                                                                                       A N
            A'1.1'
              uḥ [hiramma
                                ina
                                        MN
                                                 UD.n.KAM ina sīt šamši innamir]: zunnū ina
                                                                                                       šamê
               A.KAL.MES
                             ina
                                    IDIM GÁL.MEŠ]
                                                      EBUR
                                                               KUR
                                                                      SI.SÁ
            A
                                                      EB]UR
           Q
              [ฑเิโน้
                             ina
                                    nagbī ibaššû]
                                                      ebūr
                                                              māti
                                                                      išśir.
```

ITI.NE ^dNin-si₄-an-na UD.n.KAM] ina ^dUTU.È it-bal [n ITI UD.n.KAM ina [DIŠ ina Q - - - b[al ina şīt šamši itbal [Ina AbiNinsianna UD.n.KAM] [n arḥī n ūmī uḥ-ḥi-ram-ma [ina ITI. MN UD.n.KAM ina ^dUTU.ŠÚ].A IGI-ir AN-e šamê] uhhiramma [ina MN UD.n.KAM ina] ereb šamši innamir: zunnū KUR GÁL].MEŠ ub-bu-tu ina Α ME]Š Q [ina māti ibaššû] ubbutu iššakkan.

ITI.NE ^dNin-si_a-an-na UD.n].KAM ina ^dUTU.È it-bal 2 [ITI UD.n.KAM ina] DIS ina Α 6' Q 1 +[UD.n].KAM ina sīt šamši itbal 2 [arhī n ūmī [Ina AbiNinsianna uḥ-ḥi-ram-ma [ina ITI.MN UD.n.KAM ina - i[r Q] šamê uhhiramma ina UD.n.KAM] ina ereb šamši innamir: zunnū MN ina KUR GÁL.MEŠ ub-bu-tu GAR-an Α Q ina māti ibaššû ubbutu iššakkan,

^dNin-si₄-an-na ^dUTU.ŠÚ.A ITI.KIN DIŠ UD.23.KAM it-bal ina Α 8' Q \P Ulūli Ina Ninsianna UD.23.KAM ina ereb šamši itbal 20 ūmī šamê ITI.DU₆ ^dUTU.È UD.13.KAM ina IGI-ir nu-kúr-a-tum **KUR** uh-hi-ram-ma ina 0 uhhiramma Tašriti ina sīt šamši innamir: nukurātu māti ina UD.13.KAM GÁL.MEŠ **EBUR KUR** SI.SÁ 0 ibaššâ ebür iššir. māti

49 ^dNin-si₄-an-na DIŠ ina ITI.KIN UD.26.KAM ina it-bal UD.12.KAM AN-e \P Ulūli ereb samši Ina Ninsianna UD.26.KAM ina itbal UD.12.KAM ina šamê

> uḥ-ḥi-ram-ma ina ITI.KIN.2.KAM UD.8.KAM ina ^dUTU.È IGI ŠÀ KUR DÙG-ab A - - - - ^{9'} - - - - - - - - - - - SÀ* uḥḥiramma ina Ulūli arkî UD.8.KAM ina ṣīt šamši innamir: libbi māti iṭâb.

50 ITI.DU₆ ^dNin-si₄-an-na DIŠ ^dUTU.ŠÚ.A ina ina it-bal ITI 10' \P Ina Tašrīti Ninsianna ereb šamši 17 ūmī UD.11.KAM ina itbal ITI

^{*}ŠÀ-ab (A) error for DÙG-ab.

```
<sup>d</sup>Nin-si<sub>4</sub>-an-na
DIŠ
       ina
                                                                        <sup>d</sup>UTU.ŠÚ.A
                                                UD.28.KAM
                                                                                       it-bal
\P
       Ina
              Arahsamna Ninsianna
                                                UD.28.KAM
                                                               ina
                                                                        ereb šamši
                                                                                        itbal
                                                                                                  5 ūmī
                                                                                                                 ina
                                                                                                                       šamê
```

ina KUR GÁL A - - ina māti ibašši.

SI.SÁ
A . . .
O]
iššir.

```
ITI.GAN dNin-si<sub>4</sub>-an-n]a
     [DIŠ ina
                                                                 <sup>d</sup>UTU.È it-bal
                                              UD.12.KAM
                                                                                  2 ITI
A 16'
                                                 x+]1 -
                                                                          it-bal
                                                                                     IT[I
0 3'
                                       n] a
                                               - 12 -
                                                                           TÙM
J 1.1'
                              Ninsian] na
                                              UD.12.KAM
                                                                 sīt šamši itbal
           [Ina Kislimi
                                                           ina
                                                                                  2 arhī
                                                                                            n ūmī
                      uh-hi-ram-ma [ina
                                            ITI.ÁŠ UD.16.KAM ina]
                                                                         <sup>d</sup>utu.šú.a
              AN-e
                                                                                     IGI-ir
                                                                                             EBUR
                      uh-hi-ram-ma 17's
                                                                                                        ]
           0
           J - -
                                                                         ereb šamši innamir:
              šamê
                      uhhiramma
                                      [ina
                                            Sabāţi UD.16.KAM ina]
                                                                                               ebūr māti
              SI.SÁ
           Α - -
```

0

iššir.

```
ITI.AB <sup>d</sup>Nin-si<sub>a</sub>-an-n]a UD.24.KAM
      [DIŠ ina
                                                                   dutu.šú.a
                                                             ina
                                                                                it-bal
A 18'
                                                                                it-bal
O 5'
                                        nla
                                                                                 TÙM
j 3'
            [Ina
                   Teběti
                             Ninsian] na
                                               UD.24.KAM ina ereb šamši
                                                                                itbal
                                                                                         1 1T1
                                                                                                    4 ūmī
                                                                           <sup>d</sup>UTU.È
                                              ITI.ÁŠ
                                                       UD.28.KAM
               ina
                                                                     ina
                                                                                     IGI -ir
            Α
            0
                     šamê uhhiramma ina Šabāti
               ina
                                                       UD.28.KAM ina
                                                                           sīt šamši innamir: ebūr māti iššir.
```

```
<sup>d</sup>Nin-si<sub>4</sub>-an-n] a
                                                                        <sup>d</sup>UTU.È
                                                                                                            AN-e
                                                                  ina
                                                                                   it-bal
56
         [DIŠ
               ina
                      ITI.AB
                                                   UD.28.KAM
                                                                                   it-bal
  0 7
                                                                                    TÙM
  J 5'
                                                                                               IT]I
                                                                        sīt šamši itbal 2 arhī
                                                                                                            šamê
                                                                                                     ina
               [Ina
                       Tebēti
                                Ninsian | na
                                                    UD.28.KAM
                                                                  ina
                                            ITI.ŠE
                                                                   ina]
                                                                           <sup>d</sup>UTU.ŠÚ.A IGI-ir
                                                     UD.28.KAM
                                    ina
               A uḥ-ḥi-ra[m-m] a 20' [
               0
               J ZAL-ma
               U
                                            Addari UD.28.KAM
                                                                   ina\ ereb šamši innamir: šarru
                                     ina
                  uhhiramma
                  LUGAL
                             LÚ.NE
                                      KIN-ár
                             LÚ.NE
               Α
               0
               J
                            SAL.KUR
               U
                             LÚ.N]E
                  šarri
                            șalta
                                     išappar.
```

```
[DIŠ
                   ITI.ÁŠ <sup>d</sup>Nin-si<sub>4</sub>-an-na
                                                                 <sup>d</sup>UTU.ŠÚ.A
             ina
                                             UD.n KAM
                                                           ina
                                                                               it-bal
                                                                                        UD.3.KAM
                                                                                                           AN-e
   21'[
Α
   7'
J
   3'
U
   ü 1'ţ
                                                                             ] - 12
                   Śabāţi
                                              UD.n].KAM ina ereb šamši itbal
                                                                                         3 ūmī
            [Ina
                             Ninsianna
                                                                                                            šamê
                                                               <sup>d</sup>UTU.È IGI
                                                                             <sup>d</sup>IM
                                                                                     ŠÈG.MEŠ-šú
                                  ITI.ÁŠ
                                           UD.n.KAM ina
                                                                                                           IDIM-šu
               ZAL-ma
                            ina
                                               28 - 22
            A ZAL-ma
                                                                               I]M
                                             - 18 -
                                                                                     š]ÈG - šu
                                  IT]I -
            V uḥ] - fḥi-ra -ma 3'
               uhhiramma ina
                                                              sīt šamši innamir: Adad zunnēšu
                                   Sabāţi
                                           UD.n.KAM
                                                       ina
               ub-ba-lam
                            LUGAL
                                      ana
                                             LUGAL
            U [
               ubbalam
                             šarru
                                       ana
                                              šarri
                                                        salīma
                                                                   išappar.
```

```
[DIŠ ina ITI.ŠE <sup>d</sup>Nin-si<sub>a</sub>-an-na UD.n].KAM ina
                                                                <sup>d</sup>UTU.È it-bal 2 ITI UD.7.KAM
58
  A 23
                                                 ] -
  J
                                                                            b] al
  U 7
     6
                                                                     י. זין . . .
             [ina Addari Ninsianna UD.n]KAM ina ṣīt šamši itbal
                                                                                  2 arhī
                                                                                        <sup>d</sup>UTU.ŠÚ.A IGI-ir
                                            ITI.SIG<sub>4</sub> UD.4.KAM
                                                                                [ina]
                AN-e ul)-ḥi-ram-ma ina
             A - - uh-hi-ram-ma<sup>24</sup>[
             J - <sup>r</sup>- ZAL<sup>1</sup>-ma <sup>r</sup> -
             U u]ḥ-ḥi-ram-ma [V] uḥ-ḥi-ra-ma 8' [
                                                                 MU]L Dil-bat 9'[
                šamê uhhiramma ina Simāni UD.4.KAM (Dilbat) [ina] ereb šamši innamir:
                ŠUB-tim
                           ERÍN ma-at-ti
             U [
```

V t]im

ummani matti.

```
[DIŠ ina ITI.ŠE <sup>d</sup>Nin-s] i<sub>4</sub>-an-na [UD.10].KAM ina
                                                           <sup>d</sup>UTU.ŠÚ.A it-bal
                                                                              UD.4.KAM ina
A 25'
                                                           - - ŠÚ.A - -
                            s]i<sub>4</sub> · ·
J 10'
V 10'
                                                           - - È
          [Ina Addari Nin] sianna
                                        [UD.10].KAM ina ereb šamši itbal
                                                                <sup>d</sup>UTU.È IGI:
                   uḥ-ḥi-ram-ma ina ITI.ŠE UD.14.KAM ina
                                                                              ina
                                                                                         IGI
                    ZAL
          V - - <sup>12</sup>[
                                                    KA]M
                                  ina Addari UD.14.KAM ina sīt šamši innamir:
            šamê ulihiramma
           LUGAL
                           LUGAL
                                    SILIM.MA
                                              KIN-ár
                                                       KI.A
                                                             SI.SÁ
                                                                    ŠÀ KUR DÙG-ab
          Α -
          J 11'
          V
            šarru
                           šarri
                                    salīma išappar rutibtu iššir libbi māti itāb.
```

```
dNin-si<sub>a</sub>-an-na
                                                                           a-hu-tum
              21 kisrū?
                                                         Ninsianna
                                                                            ahûtu
           ki[srū? ša dNinsianna ahûtu] TA ŠÀ![ki-is]-ri ta-a-a-ar-ta ina - [ ] (traces) 11' - BAR x-[
                                                                                      ŠÀ-bi i-šu-ú
           (traces)

2' [ ] -
ki [ṣrū² ša Ninsianna aḥûtu ultu libbi kiṣ]ri
                                                                                              1.1[]
                                                                  tajarta
                                                                                ina
                                                                                              išû.
                              <sup>d</sup>Nin-si<sub>4</sub>-an-na UD.3.KAM ina
                                                                 dutu,šú,a it-bal l ITI UD.7.KAM
60 DIŠ
              ina
                    ITI.DU
  B 12'
                               -N[in] - [
  N 14'
                                                - 11 1.1
                                         n]a
                                                                 ereb šamši itbal 1 ITI 7 ūmī
                     Tašrīti
                                               UD,3,KAM
              Ina
                               Ninsianna
                                                           ina
                                                                 UD.n.KAM <sup>d</sup>Nin-si<sub>a</sub>-an-na [ina <sup>d</sup>UTU.È]
                               uh]-ha-ram-ma ina
                                                       ITI.APIN
                                                                   - [27] -
              R [
                                                                   - 28 -
                                                                      ][.?] . .[
                       šamê uh]haramma
                                                       Arahsamna UD.n.KAM Ninsianna [ina sit šamši]
                 ina
                                               ina
                IGI ŠÈG.MEŚ ina
                                       KUR GÁL.MEŠ
                                                         ub-bu-tu
              В
              R -
              innamir: zunnū ina māti
                                              ibaššû
                                                         ubbutu
                                                                    iššakkan.
                      šá <sup>d</sup>Nin-si<sub>4</sub>-an-na a-hu-tum TA ŠÀ ki-iṣ-ri
                                                                                               ŠÀ-bi i-šu-ú
                                                                                                  b]i - - ''
```

Colophons

J

```
( = Hunger Kolophone 469)
     Rev. 28 [DIŠ MUL.SAG.ME.GAR ina še-er-ti ik-tu]-un LUGAL.MEŠ KÚR.MEŠ SILIM.MEŠ
                    DUB 1 UŠ 3 KAM DIŠ UD An dEn-lil
          29'
                                                                    md<sub>U+GUR-DIN-it</sub>
                                                         l x GIŠ
     End
         <sup>28'</sup> "If Jupiter remains (in the sky) in the morning, enemy kings will become reconciled"
             [ = catchline of Tablet 64].
             Tablet 63 of Enuma Anu Enlil.
             [ . . . ] written by Nergal-uballit.
В
     ( = Hunger Kolophone 150)
     Rev. 15' DIŠ MUL.SAG.ME.GAR ina še-er-ti i[k-tu-un LUGAL.MEŠ KÚR.MEŠ] SILIM.MEŠ
         16 DUB 1 UŠ 2.ÀM.KAM.MA [DIŠ] [UD An] dEn-lil 37.ÀM MU.B[I.IM]
         17' [G] ABA.RI Ba-bi-i-li<sup>ki</sup> [G] IM la-bi-ri-šú ša-ţir-ma [È]
         ^{18} [Š]u ^{d}u+gur-du-uš dumu lú.dumu.dù an [x]
         19' [(x)] Eki MU.AN.NA [x].KAM LÚGAL.GI.NA LUGAL [
     End
         15' "If Jupiter remains (in the sky) in the morning, enemy kings will become reconciled"
             [ = catchline of Tablet 64].
          <sup>16'</sup> Tablet 62 of Enuma Anu Enlil, it has 37 lines.
          <sup>17'</sup> Copy of (a text from) Babylon, written according to its original and collated.
          18' Written by Nergal-epus, son of a "Free man" . . .
          19' At Babylon, [x] th year of Sargon, king [of Assyria].
                                              d En-lill
     Rev. 13' [DUB . . . KAM DIŠ UD An
                                                        NU AL.TIL
                                                        x MU.ME HUL.ME TA É.KUR È-am
         15'
                                                    ]-x-mu-še-zi-bu x [n]i<sup>? m</sup>DIN-su-<sup>d</sup>EN
         16
                                                        ] x GIŠ x [
                                                                                 ] (blank)
     break
         13' Tablet n of Enūma Anu Enlil, unfinished.
         14' [ . . . ] evil years? will come out of Ekur (catchline of the "akītu-omens," see provisionally
             ACh Second Supplément 82 and Gadd, CT 40 p. 8 to pl. 38-40).
         15' [ . . . ] -mušēzibu . . . Uballissu-Bēl
          16' (remainder fragmentary).
```

R

7' Tablet n of Enuma Anu Enlil, [unfinished].

^{8&#}x27; . . . broken.

Appendix A. Excerpt from EAE 63 in Iqqur ipuš (§ 104A)

K.3170 + 11719 + 14551

Omen 22 end: 1 [3 ITI ina AN-e ZAL-ma UD.8,KAM šá IT]I.ŠE ina dUTU.ŠÚ,A KUR-ma [LUGAL ana LUGAL SAL.KÚR KIN-ár]

Omen 23: ^{2'} [DIŠ ina ITI.GUD UD]. [3]. KAM ^dNin-si₄-an-n[a ina ^dUTU.ŠÚ.A IGI]

 $^{3^{\prime}}$ [SAL.KÚR.MEŠ] ina KUR GÁL.MEŠ EN UD.7.KAM šá ITI.AB ina $^{\rm d}$ UTU.ŠÚ.[A DU]

4' [UD.7.KA]M šá ITI.AB TÙM-ma UD.7.KAM ina AN ZAL-[m]a UD.14.KAM šá ITI.[AB]

 $^{5'}$ [ina $^{
m d}$ U]TU.È KUR-ma EBUR KUR SI.SÁ ŠÀ KUR DÙG-ab

Omen 24: 6' [DIŠ ina ITI.SI]G₄ UD.4.KAM ^dNin-si₄-an-na ina ^d [UTU].È IGI RI.RI.GA ERÍN mat-ti

7' [EN U] D.7.KAM šá ITI.ÁŠ ina dUTU.È DU UD.8(or: 7).KAM šá ITI.ÁŠ TÙM- ma

8' [3] ITI.MEŠ ina AN-e ZAL-ma UD.12.KAM šá ITI.GUD ina ^dUTU.ŠÚ.A KUR-ma SAL.KÚR.ME ina KUR GÁL.ME

Omen 25: ^{9'} [DIŠ ina] ITI.ŠU UD.5.KAM ^dNin-si₄-an-na ina ^[d] UTU.ŠÚ.A IGI SAL.KÚR.MEŠ ina KUR G [ÁL.MEŠ]

 $^{10'}$ EBUR KUR SI.SÁ EN UD.9.KAM šá ITI.[Š]E ina d UTU.ŠÚ.A DU UD.10.KAM šá ITI.ŠE TÙM-m[a]

11' UD.7.KAM ina AN ZAL-ma UD.17.KAM šá I[TI].ŠE ina ^dUTU.È KUR-ma LUGAL ana LUGAL SAL.KÚR KIN-[ár]

Omen 26: 12' [DIŠ ina ITI] NE UD.6.KAM dNin-si₄-an-na ina dUTU.È IGI ŠÈG.ME ina AN-e GÁL.ME

13' [ub-bu-t] u GÁL EN U[D.10.KAM šá ITI].BÁR ina ^dUTU.È DU

^{14'} [UD.11.KAM šá ITI.BÁR TÙM-ma 3 ITI ina AN ZAL-m] a UD.11.KAM šá ITI.ŠU

15' [ina dutu.šú.A kur-ma SAL.kúr.me ina kur GÁL.me ebu]r kur si.sá

Omen 27: ^{16'} [DIŠ ina ITI.KIN UD.2.KAM ^dNin-si₄-an-na ina ^dUTU.ŠÚ.A IGI] EBUR KUR SI.SÁ

break

Appendix B. E BM 41498 = LBAT 1562

```
1' [ . . . . . . . ina 1T]I.\check{S}U(or: DU_6) UD.14,KAM
^{2'} [(^dNin-si<sub>4</sub>-an-na) ina ^dUTU.È IGI.DU<sub>8</sub> LUGAL ana LUGA]L LÚ.NE KIN-ár
^{3'} [DIŠ ina ITI.APIN UD.10.KAM ^dNin-si_a-an-na ina ^dUTU].È it-bal 2 ITI UD.9.KAM
<sup>4'</sup> [ina AN-e ZAL-ma ina ITI.AB UD.19.KAM ina <sup>d</sup>UTU.ŠÚ].A IGI-ir EBUR KUR SI.SÁ
<sup>5'</sup> [DIŠ ina ITI.MN UD.n.KAM <sup>d</sup>Nin-si<sub>4</sub>-an-na ina <sup>d</sup>UT]U.È <sup>f</sup>it<sup>1</sup>-bal 2 ITI UD.1.KAM
6' [ina AN-e ZAL-ma ina ITI.MN UD.n.KAM ina dutu.šú.A IGI-ir] EBUR KUR [SI.SÁ]
                                      traces of one line
                                                             ina AN]- e? [ZAL-ma]
<sup>2'</sup> [ina ITI.MN UD.n.KA]M ina <sup>d</sup>UTU.ŠÚ.A IGI-i[r] EŠ A [
^{3^{\circ}} [DIŠ ina ITI.MN UD.n.KAM ^{d}Nin-si_4-an-n] a ina ^{d}UTU.ŠÚ.A i[t]-bal
                                               ina ^dUT]U.È IGI ŠÈG.MEŠ ina ^fKUR^1 [ ]
                                                        ] UR? MEŠ ḤUL? BI x [
6' [DIŠ ina ITI.MN UD.n.KAM dNin-si<sub>a</sub>-an-na ina] dUTU.È i[t-bal...]
                                                       ] 30 [xx] UD 20 [...]
                                                                i]t?-bal UD.x.[
                                     traces
```

Appendix C. K BM 34227 + 42033 = LBAT 1560 + 1561

The apodosis of the first preserved omen is apodosis no. 23, which occurs in omens 8, 9, 17, and 18. In the second omen, only the date of the first invisibility, XII? 24, and that of the next first visibility, XI 28, are preserved. Since a period of invisibility that extends over 11 months 4 days is impossible, the month name read as XII may represent a mistake for X, in which case this omen would be identical to omen 55. Note that omen 55 corresponds to omen 16, but 55 refers to last visibility in the West and 16 to last visibility in the East. A last visibility in the East on XII 25 is recorded in 10 which is a report, not an omen. If the second fragmentary omen in K were to be identified with omen 10, one would have to assume that K substituted the date of Ω in 11 for that of Ξ in 10; one could then reconstruct omens 10 and 11 as follows:

10
$$\Sigma$$
 XII 25 3m 16d Ξ III 11 8m 17d
11 Ω XI 28 17d Γ XII 15

None of these solutions seems convincing to us.

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The Ayt Ndhir dialect which is described belongs to one of the major Berber languages, Tamazight, spoken in the Middle Atlas Mountains of central Morocco. The description is based in the main on research undertaken with native speakers of the Ayt Ndhir territory surrounding El Hajeb. — While directed to the non-specialist, a number of points in the description proper will be of interest to the specialist as well: the presentation of noun and verb morphology points up a number of regularities which more often than not have been obscured in previous descriptions. Also, phonological rules are given which account for the major share of morphophonemic complexities. The reader will find in the appendices and 'optional' sections conjugation tables of typical verbs—including detailed observations on the placement of shwa in verbs—, a chart showing the main morphological patterns involved in verb derivation, a description of the phonological rules applying in complex sequences of morphemes of the verb group, the 'basic' vocabulary contained in several well-known lexicostatistic word lists, and a chart of the Tifinay alphabet used by the Tuareg.

AAD 2 - Ancient Egyptian: MIDDLE EGYPTIAN by John Callender. 1975, 150 pp., \$10.

This grammar deals with the literary language used in Egypt from ca. 2000 to 1200 B.C. and considered in even later times to be the classical written form of Egyptian. The book is directed toward the general linguist as well as the Egyptologist; examples are glossed and written in transcription and there is an index of grammatical terms and Egyptian morphemes. A comprehensive set of paradigms of both verbal and non-verbal predicate types is included as an appendix, together with an appendix on negation and one on the historical origin of certain constructions. — The grammar contains three main parts: phonology, morphology, and syntax, of which the last receives most emphasis. The section on phonology sketches the laws of sound change to the extent they can be discovered. The section on morphology stresses the paradigmatic character of verb tenses and their derivations. A distinction is made between truly paradigmatic tenses and tenses borrowed from Old Egyptian for quotations or special effect. Following Polotsky, the "emphatic forms" are treated as nominalizations under the rubric "manner nominalizations." Unlike previous grammars of Egyptian, this grammar discusses syntax according to transformational categories. The process of "clefting" interrelates emphatic forms, the "participial statement" and constructions with pw+ relatives. The process character of negation is emphasized, and the implications of so considering it are developed in a special appendix. A sample text is also included, accompanied by a vocabulary and a translation.

AAD 3 - Semitic: DAMASCUS ARABIC by Arne Ambros. In preparation.

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BABYLONIAN PLANETARY OMENS

PART ONE

ENŪMA ANU ENLIL TABLET 63: THE VENUS TABLET OF AMMISADUQA

by

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This edition of *Enūma Anu Enlil* is dedicated to the memory of A. Leo Oppenheim. He inspired both of us in many ways, and initiated and fostered our collaboration on Babylonian astral omens.