

INDEX LETTER GROUPS - LUNAR

Parameters: Synodic month 38 units 29.53 days
 Month start after N 2 units 1.55 days
 Eclipse Year Unit 1 unit 0.78 days
 Descending node at 66 units 102.56 days
 Ascending node at 289 units 449.11 days
 Time between node 223 units 346.54 days

Glyph limits: Lunar N 20 units
 Lunar S 20 units
 Solar N 21 units
 Solar S 7 units

Red Index Letter, such as H₁, are those observed in the glyphs
 Blue Index Letters, such as B₁, are those reconstructed by EYM

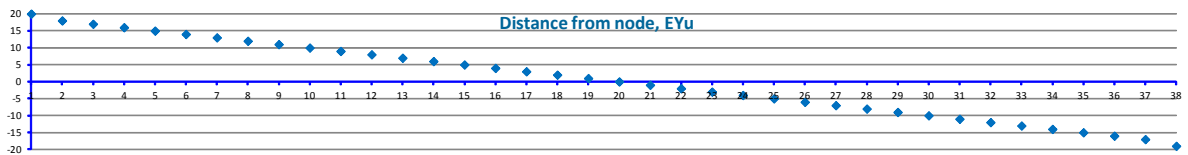
Lunar Glyphs North of node - month order																			
Month No.	8	26	43	55	61	73	90	102	108	120	125	137	155	167	172	184	202	214	219
Index	B ₁	H ₁	A ₁	N ₁	O ₁	X ₁	X ₁	O ₁	B ₂	B ₂	Z ₂	Θ ₂	M ₂	O ₂	Π ₂	Σ ₂	X ₂	3	4
Eclipse Year, EYu	283	75	275	285	67	77	277	287	69	79	269	279	71	81	271	281	73	83	273
Node	D	A	D	D	A	A	D	D	A	A	D	D	A	A	D	D	A	A	D
From Node, EYu	6	9	14	4	1	11	12	2	3	13	20	10	5	15	18	8	7	17	16

Lunar Glyphs North of node - EYu descending																			
Month No.	125	172	214	219	167	43	120	90	73	137	26	184	202	8	155	55	108	102	61
Index	Z ₂	Π ₂	3	4	O ₂	A ₁	E ₂	X ₁	Σ ₁	Θ ₂	H ₁	Σ ₂	X ₂	B ₁	M ₂	N ₁	B ₂	Ω ₁	O ₁
Eclipse Year, EYu	289	271	83	273	81	275	79	277	77	279	75	281	73	283	71	285	69	287	67
Node	D	D	A	D	A	D	A	D	A	D	A	D	A	D	A	D	A	D	A
From Node, EYu	20	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1

Lunar Glyphs South of node/At node - month order																			
Month No.	2	14	20	32	37	49	67	79	84	96	114	131	143	149	161	178	190	196	208
Index	A ₁	A ₁	B ₁	I ₁	K ₁	M ₁	Π ₁	Y ₁	Φ ₁	Ψ ₁	Γ ₂	H ₂	I ₂	K ₂	N ₂	P ₂	T ₂	Y ₂	Ω ₂
Eclipse Year, EYu	55	65	293	303	47	57	295	305	49	59	297	51	61	289	299	53	63	291	301
Node	A	A	D	D	A	A	D	A	A	D	A	A	D	A	D	A	A	D	D
From Node, EYu	11	1	4	14	19	9	6	16	17	7	8	15	5	0	10	13	3	2	12

Lunar Glyphs South of node/At node - EYu ascending (negative)																			
Month No.	149	14	196	190	20	143	67	96	114	49	161	2	208	178	32	131	79	84	37
Index	K ₂	A ₁	Y ₂	T ₂	B ₁	I ₂	Π ₁	Ψ ₁	Γ ₂	M ₁	N ₂	A ₁	Ω ₂	P ₂	I ₁	H ₂	Y ₁	Φ ₁	K ₁
Eclipse Year, EYu	289	65	291	63	293	61	295	59	297	57	299	55	301	53	303	51	305	49	47
Node	D	A	D	A	D	A	D	A	D	A	D	A	D	A	D	A	D	A	A
From Node, EYu	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	19

NORTH: descending order										SOUTH: ascending negative order																														
Conjectural Lunar Group A					Conjectural Lunar Group B					Conj. Lunar Group C					Conj. Lunar Group D					Conj. Lunar Group E					Conj. Lunar Group F					Conjectural Lunar Group G										
Very far North of node					Far North of node					Close North of node					Nearly at node: North then South					Close South of node					Far South of node					Very far South of node										
Z ₂	Π ₂	3	4	O ₂	A ₁	E ₂	X ₁	Σ ₁	Θ ₂	H ₁	Σ ₂	X ₂	B ₁	M ₂	N ₁	B ₂	Ω ₁	O ₁	K ₂	A ₁	Y ₂	T ₂	E ₁	I ₂	Π ₁	Ψ ₁	Γ ₂	M ₁	N ₂	A ₁	Ω ₂	P ₂	I ₁	H ₂	Y ₁	Φ ₁	K ₁			
269	271	83	273	81	275	79	277	77	279	75	281	73	283	71	285	69	287	67	289	65	291	63	293	61	295	59	297	57	299	55	301	53	303	51	305	49	47			
D	D	A	D	A	D	D	A	D	A	D	A	D	A	D	A	D	A	D	A	D	A	D	A	D	A	D	A	D	A	D	A	D	A	D	A	D	A	D	A	A
20	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10	-11	-12	-13	-14	-15	-16	-17	-19			



Courtesy Tony Freeth, 2013

Figure S11 | Spreadsheet generating the lunar Index Letter Groups according to EYM. In contrast to the solar groups, the result is nearly symmetrical between North and South and produces a full 38 EP Babylonian scheme, as might be expected, since there is no asymmetry in the visibility of lunar eclipses. There are 19 EPs North of the node and 18 EPs South, with one EP at the node. The lunar EPs break down into four groups of five index letters and three groups of six. Though there is some limited flexibility in deciding on the divisions between the groups, those illustrated appear to be the most natural.