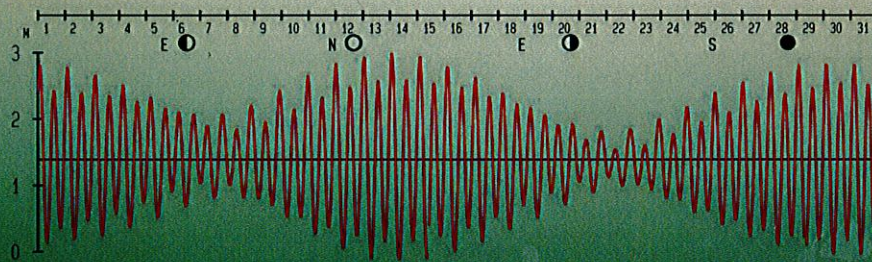




# JADUAL RAMALAN AIR PASANG SURUT (TIDE PREDICTION TABLES) MALAYSIA 2018



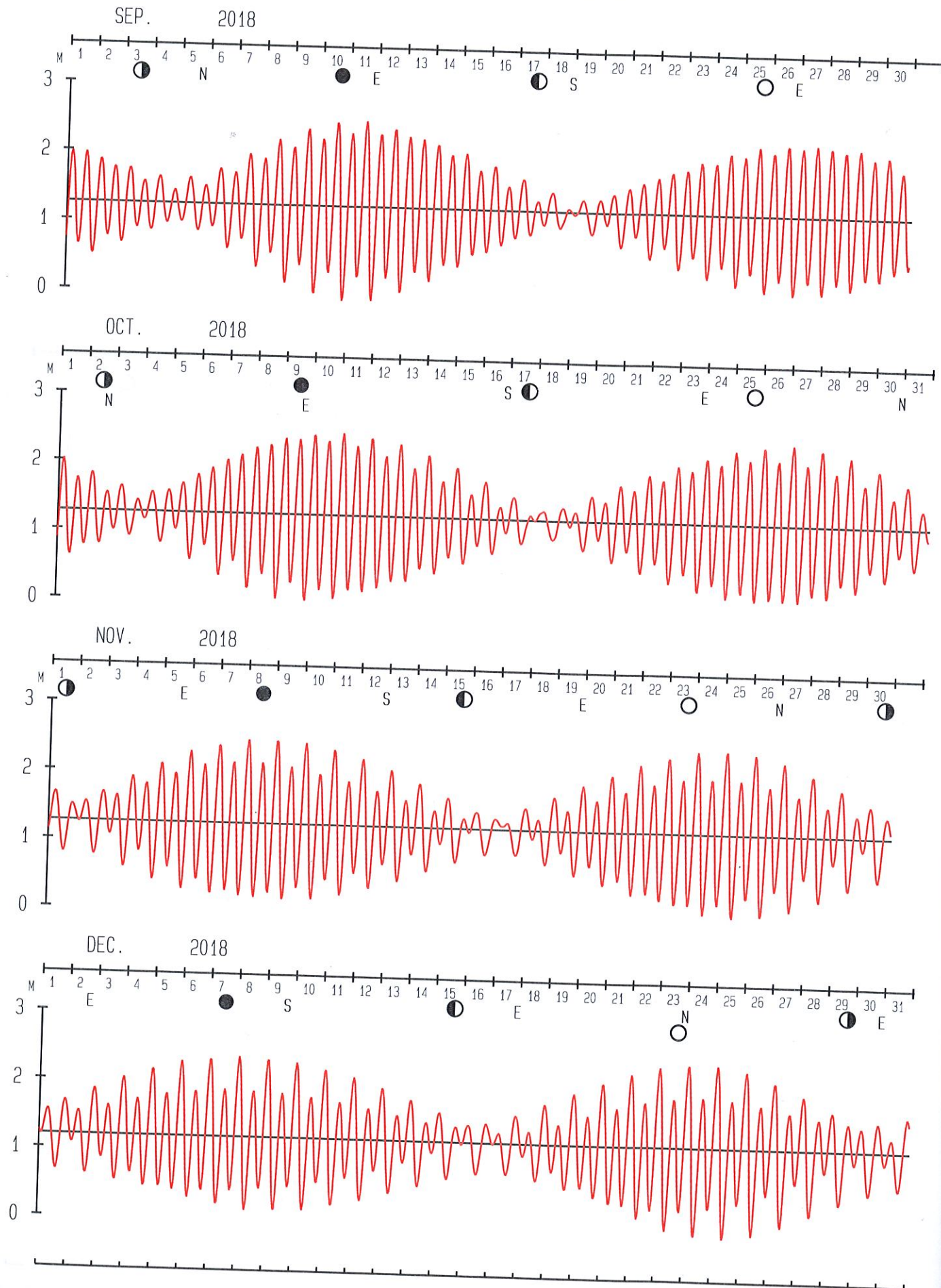
**LOKASI RAMALAN AIR PASANG SURUT DI SEMENANJUNG MALAYSIA**

*LOCATION OF TIDAL PREDICTION IN PENINSULAR MALAYSIA*



# PULAU PINANG

# LUMUT



1. Kedudukan :  
 Garislintang 04° 14' 07" U  
 Garisbujur 100° 36' 45" T

1. Position :  
 Latitude 04° 14' 07" N  
 Longitude 100° 36' 45" E

2. Aras Datum :  
 4.816 meter di bawah Tanda Aras  
 Jabatan Ukur dan Pemetaan  
 Malaysia, A 0401.

2. Datum Level :  
 4.816 metres below the Department  
 of Survey and Mapping Malaysia's  
 Bench Mark, A 0401.

3. Datum Carta :  
 5.335 meter di bawah Tanda Aras  
 Jabatan Ukur dan Pemetaan  
 Malaysia, A 0401.

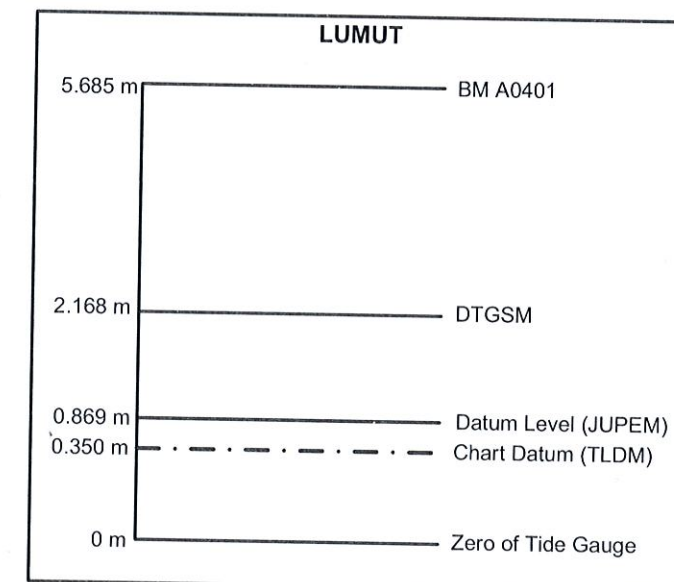
3. Chart Datum :  
 5.335 metres below the Department  
 of Survey and Mapping Malaysia's  
 Bench Mark, A 0401.

4. Jenis Air Pasang : Semiharian  
 Surut  
 Pasang Perbani 2.40 m  
 Pasang Anak 1.70 m  
 Julat Perbani 2.16 m  
 Sela Air Pasang Min 02<sup>h</sup> 24<sup>m</sup>

4. Type of Tide : Semi-diurnal  
 Spring Rise 2.40 m  
 Neap Rise 1.70 m  
 Spring Range 2.16 m  
 Mean High Water Interval 02<sup>h</sup> 24<sup>m</sup>

5. Sisihan piawai :  
 Masa teramal ± 9.4 min  
 Ketinggian teramal ± 9.4 cm

5. Standard deviation :  
 Predicted time ± 9.4 mins  
 Predicted height ± 9.4 cm





LUMUT  
Hourly Heights Prediction

MARCH

Table with columns DAY 0-23 and rows 1-30. Contains numerical data for hourly heights in March 2018.

APRIL

Table with columns DAY 0-23 and rows 1-30. Contains numerical data for hourly heights in April 2018.

2018

2018

LUMUT  
Hourly Heights Prediction

MAY

Table with columns DAY 0-23 and rows 1-30. Contains numerical data for hourly heights in May 2018.

JUNE

Table with columns DAY 0-23 and rows 1-30. Contains numerical data for hourly heights in June 2018.

LUMUT
Hourly Heights Prediction

Table with columns: JULY, DAY, 0-23, 2018. Rows 1-30. Values range from 10 to 230.

LUMUT
Hourly Heights Prediction

Table with columns: SEPTEMBER, DAY, 0-23, 2018. Rows 1-30. Values range from 10 to 230.

Table with columns: AUGUST, DAY, 0-23, 2018. Rows 1-30. Values range from 10 to 230.

Table with columns: OCTOBER, DAY, 0-23, 2018. Rows 1-30. Values range from 10 to 230.



LUMUT

2018

Times and Heights of High and Low Water

MARCH

APRIL

TIME HEIGHT H.M. (cm)	TIME HEIGHT H.M. (cm)	TIME HEIGHT H.M. (cm)	TIME HEIGHT H.M. (cm)	TIME HEIGHT H.M. (cm)	TIME HEIGHT H.M. (cm)	TIME HEIGHT H.M. (cm)	TIME HEIGHT H.M. (cm)
1 3 12 225 TH 9 45 -22 16 4 226 22 7 23	9 2 11 63 F 8 8 154 14 4 71 20 25 172	17 3 38 221 SA 10 4 -8 16 20 225 22 25 30	25 3 6 63 SU 9 24 160 15 30 88 21 48 169	1 4 18 234 SU 10 36 -11 16 49 253 23 4 15	9 3 13 85 M 10 20 151 16 30 114 22 15 146	17 4 27 232 TU 10 41 4 16 52 261 23 13 14	25 6 7 67 W 12 58 203 19 21 86
2 3 55 236 F 10 26 -33 16 46 237 22 48 17	10 3 3 76 SA 9 10 139 15 8 91 21 30 153	18 4 10 228 SU 10 35 -15 16 51 234 22 57 23	26 4 48 70 M 11 38 160 17 45 94 23 48 167	2 4 53 231 M 11 6 -2 17 18 251 23 37 17	10 5 4 89 TU 12 30 162 18 39 105 22 57 17	18 5 3 232 W 11 15 12 17 25 259 23 49 13	26 1 0 183 TH 7 19 52 13 53 224 20 15 64
3 4 36 240 SA 11 2 -35 17 21 241 23 26 17	11 4 40 84 SU 11 42 135 17 18 101 23 40 146	19 4 43 232 M 11 6 -15 17 20 239 23 32 19	27 6 39 57 TU 13 15 180 19 30 77	3 5 25 223 TU 11 36 11 17 46 246	11 0 21 152 W 6 46 77 13 21 181 19 41 88	19 5 42 226 TH 11 52 25 17 57 251	27 1 57 200 F 8 11 37 14 36 241 20 58 46
4 5 12 235 SU 11 36 -28 17 55 239	12 6 39 76 M 13 17 151 19 21 90	20 5 15 229 TU 11 39 -10 17 51 240	28 1 16 182 W 7 49 35 14 16 205 20 30 57	4 0 5 22 W 5 57 212 12 2 28 18 9 235	12 1 20 170 TH 7 35 59 14 5 200 20 19 71	20 0 28 20 F 6 24 216 12 30 44 18 35 236	28 2 44 214 SA 8 54 26 15 12 253 21 36 33
5 0 0 21 M 5 47 226 12 6 -12 18 23 233	13 1 8 158 TU 7 41 58 14 5 169 20 9 73	21 0 4 21 W 5 50 221 12 7 2 18 22 236	29 2 13 202 TH 8 39 12 15 1 226 21 14 38	5 0 32 30 TH 6 27 199 12 30 46 18 36 221	13 2 0 188 F 8 20 40 14 42 218 20 56 56	21 1 6 31 SA 7 11 202 13 14 66 19 16 216	29 3 24 223 SU 9 34 22 15 44 260 22 10 24
6 0 34 28 TU 6 19 210 12 36 6 18 52 223	14 1 56 175 W 8 23 39 14 44 187 20 49 59	22 0 39 26 TH 6 27 209 12 43 19 18 56 225	30 3 0 220 F 9 24 -3 15 42 241 21 54 25	6 1 0 41 F 7 0 186 12 57 64 19 2 203	14 2 36 205 SA 8 55 23 15 14 234 21 30 42	22 1 53 47 SU 8 10 188 14 12 91 20 7 192	30 4 0 227 M 10 5 25 16 13 262 22 42 19
7 1 4 38 W 6 50 192 13 1 28 19 17 209	15 2 33 192 TH 8 59 20 15 16 202 21 19 47	23 1 17 36 F 7 9 193 13 21 41 19 33 208	31 3 41 230 SA 10 1 -12 16 18 250 22 32 17	7 1 30 55 SA 7 39 172 13 34 83 19 35 182	15 3 11 219 SU 9 30 11 15 48 247 22 3 29	23 2 56 64 M 9 37 178 15 46 108 21 36 172	
8 1 39 50 TH 7 22 173 13 30 50 19 48 191	16 3 7 208 F 9 32 4 15 49 214 21 52 37	24 2 3 49 SA 8 0 176 14 10 65 20 26 187		8 2 7 70 SU 8 30 158 14 23 101 20 30 161	16 3 48 229 M 10 5 4 16 20 256 22 39 19	24 4 25 73 TU 11 37 184 17 57 106 23 30 169	

LUMUT

2018

Times and Heights of High and Low Water

MAY

JUNE

TIME HEIGHT H.M. (cm)	TIME HEIGHT H.M. (cm)	TIME HEIGHT H.M. (cm)	TIME HEIGHT H.M. (cm)	TIME HEIGHT H.M. (cm)	TIME HEIGHT H.M. (cm)	TIME HEIGHT H.M. (cm)	TIME HEIGHT H.M. (cm)
1 4 35 226 TU 10 38 31 16 42 259 23 11 19	9 3 43 90 W 11 13 178 17 30 118 22 56 158	17 4 53 234 TH 10 58 36 17 2 270 23 37 9	25 0 35 181 F 6 41 70 13 16 233 19 53 73	1 5 24 217 F 11 14 70 17 8 247 23 45 28	9 5 25 80 SA 12 21 217 18 53 93 12 27 72 18 16 248	17 0 9 6 SU 6 33 233 12 27 72 18 16 248	25 2 2 192 M 7 50 79 14 2 237 20 46 48
2 5 8 221 W 11 5 42 17 8 253 23 40 22	10 5 18 88 TH 12 25 194 18 50 104 23 40 22	18 5 40 231 F 11 41 49 17 42 260 23 40 22	26 1 34 193 SA 7 36 62 13 58 244 20 35 55	2 5 56 214 SA 11 44 77 17 38 238 19 46 71	10 0 25 181 SU 6 34 70 13 9 233 19 46 71	18 0 54 17 M 7 24 228 13 17 85 19 3 230	26 2 47 202 TU 8 39 75 14 39 241 21 22 38
3 5 41 215 TH 11 37 53 17 35 244	11 0 24 169 F 6 35 75 13 14 212 19 43 85	19 0 17 15 SA 6 30 224 12 30 66 18 21 243	27 2 23 204 SU 8 21 57 14 36 253 21 12 41	3 0 12 37 SU 6 27 209 12 19 86 18 10 226	11 1 26 195 M 7 30 60 13 54 249 20 30 50	19 1 42 33 TU 8 19 221 14 14 98 19 55 209	27 3 24 209 W 9 17 72 15 14 245 21 54 29
4 0 5 29 F 6 11 207 12 1 66 18 1 232	12 1 14 185 SA 7 26 58 13 57 231 20 21 66	20 1 0 27 SU 7 23 214 13 17 85 19 8 222	28 3 5 213 M 9 1 54 15 8 257 21 47 30	4 0 41 46 M 7 4 204 12 57 95 18 44 213	12 2 17 211 TU 8 21 51 14 35 262 21 14 30	20 2 30 52 W 9 19 216 15 26 108 21 0 189	28 4 2 214 TH 9 52 71 15 48 247 22 25 25
5 0 35 39 SA 6 44 199 12 33 79 18 30 216	13 2 0 202 SU 8 13 44 14 33 248 21 1 47	21 1 50 43 M 8 22 205 14 21 104 20 4 200	29 3 41 218 TU 9 37 55 15 40 258 22 17 25	5 1 17 57 TU 7 47 198 13 43 106 19 21 197	13 3 7 223 W 9 12 45 15 20 270 21 58 14	21 3 26 68 TH 10 26 214 16 52 108 22 25 176	29 4 36 217 F 10 27 71 16 17 247 22 55 23
6 1 2 52 SU 7 18 190 13 10 94 19 2 198	14 2 43 216 M 8 54 33 15 9 261 21 40 30	22 2 48 61 TU 9 45 200 15 46 115 21 24 181	30 4 19 220 W 10 10 59 16 10 257 22 48 22	6 1 58 69 W 8 41 194 14 45 116 20 14 181	14 3 59 232 TH 10 0 45 16 2 274 22 42 3	22 4 39 80 F 11 35 217 18 19 96 23 54 174	30 5 9 217 SA 10 59 72 16 49 245 23 25 24
7 1 38 66 M 8 8 180 14 0 109 19 46 178	15 3 25 227 TU 9 38 27 15 46 271 22 18 18	23 4 2 73 W 11 14 205 17 36 110 23 6 174	31 4 53 219 TH 10 43 64 16 40 253 23 14 24	7 2 53 79 TH 9 54 194 16 10 120 21 36 171	15 4 50 236 F 10 49 50 16 48 272 23 24 1	23 5 53 85 SA 12 34 224 19 19 79	
8 2 25 80 TU 9 22 174 15 30 120 20 56 162	16 4 9 233 W 10 17 29 16 25 273 22 56 9	24 5 30 76 TH 12 25 218 18 58 93		8 4 5 84 F 11 14 202 17 43 111 23 10 170	16 5 42 237 SA 11 38 59 17 32 263	24 1 7 182 SU 6 58 83 13 22 231 20 7 63	



LUMUT

2018

Times and Heights of High and Low Water

JULY

AUGUST

TIME HEIGHT H.M. (cm)	TIME HEIGHT H.M. (cm)	TIME HEIGHT H.M. (cm)	TIME HEIGHT H.M. (cm)	TIME HEIGHT H.M. (cm)	TIME HEIGHT H.M. (cm)	TIME HEIGHT H.M. (cm)	TIME HEIGHT H.M. (cm)
1 5 41 217	9 5 39 76	17 0 42 3	25 2 30 193	1 0 6 21	9 1 46 198	17 1 27 41	25 3 21 214
SU 11 32 74	M 12 19 223	TU 7 8 238	W 8 22 82	W 6 24 221	TH 7 53 67	F 7 51 223	SA 9 27 61
17 21 241	19 4 74	13 4 71	14 20 219	12 21 69	N 14 0 231	14 3 75	15 16 225
23 55 28		18 51 235	20 59 43	18 6 231	20 39 27	19 51 194	21 43 24
2 6 12 215	10 0 51 187	18 1 21 21	26 3 9 203	2 0 37 28	10 2 49 217	18 2 3 65	26 3 55 222
M 12 3 79	TU 6 54 70	W 7 55 231	TH 9 3 74	TH 6 56 221	F 8 56 54	SA 8 26 208	SU 9 58 54
17 51 234	13 20 236	E 13 52 83	S 14 57 226	E 12 57 74	14 53 246	● 14 52 86	○ 15 48 236
	20 1 51	19 36 215	21 35 32	18 39 219	21 32 5	20 45 173	22 13 15
3 0 27 35	11 1 57 203	19 2 3 42	27 3 43 211	3 1 8 38	11 3 45 234	19 2 48 88	27 4 27 227
TU 6 46 214	W 8 0 61	TH 8 38 221	F 9 40 68	F 7 30 217	SA 9 49 45	SU 9 16 191	M 10 27 50
12 41 85	14 13 248	14 47 93	15 30 234	13 36 82	● 15 41 258	16 0 95	16 17 242
18 26 224	20 53 29	20 26 192	22 5 24	19 19 205	22 17 -9	22 8 159	22 44 10
4 0 57 43	12 2 56 218	20 2 49 64	28 4 18 216	4 1 46 50	12 4 34 245	20 4 0 105	28 4 55 232
W 7 22 210	TH 8 59 54	F 9 30 212	SA 10 12 65	SA 8 15 212	SU 10 37 40	M 10 30 178	TU 10 57 48
13 19 93	N 15 1 259	● 15 53 99	○ 16 4 240	14 26 88	16 28 264	17 40 95	16 47 245
19 2 211	21 43 10	21 30 174	22 36 18	20 7 189	23 0 -17		23 12 9
5 1 36 52	13 3 51 230	21 3 44 84	29 4 49 219	5 2 34 63	13 5 20 250	21 0 13 161	29 5 27 234
TH 8 5 208	F 9 52 50	SA 10 30 204	SU 10 44 62	SU 9 8 205	M 11 20 40	TU 6 0 108	W 11 30 48
14 9 102	● 15 51 266	17 18 98	16 35 244	○ 15 34 93	17 10 261	12 12 177	E 17 15 242
19 46 196	22 30 -3	23 8 164	23 6 16	21 16 176	23 41 -14	19 3 82	23 42 14
6 2 18 63	14 4 44 239	22 5 0 96	30 5 19 221	6 3 39 76	14 6 1 251	22 1 25 175	30 5 53 235
F 8 58 205	SA 10 45 49	SU 11 45 202	M 11 15 62	M 10 17 201	TU 12 3 44	W 7 24 97	TH 12 0 49
○ 15 9 107	16 39 268	18 36 86	17 4 244	17 0 90	17 51 252	S 13 20 186	17 48 235
E 20 44 182	23 14 -9		23 38 16	22 48 171		19 56 67	
7 3 14 72	15 5 35 242	23 0 41 170	31 5 52 222	7 5 4 82	15 0 17 -1	23 2 13 190	31 0 10 22
SA 10 2 206	SU 11 32 53	M 6 24 97	TU 11 47 64	TU 11 44 203	W 6 41 246	TH 8 14 83	F 6 24 233
16 30 106	17 23 263	12 47 205	17 35 240	18 30 75	E 12 43 52	14 6 198	12 34 54
22 0 174	23 58 -7	19 38 71			18 32 237	20 36 52	18 21 223
8 4 21 77	16 6 22 242	24 1 44 180		8 0 30 180	16 0 54 17	24 2 48 203	
SU 11 16 211	M 12 19 62	TU 7 34 91		W 6 39 78	TH 7 15 237	F 8 54 70	
17 55 94	18 6 252	13 38 211		12 58 215	13 22 63	14 43 212	
23 30 176		20 20 56		19 42 52	19 11 215	21 11 37	

LUMUT

2018

Times and Heights of High and Low Water

SEPTEMBER

OCTOBER

TIME HEIGHT H.M. (cm)	TIME HEIGHT H.M. (cm)	TIME HEIGHT H.M. (cm)	TIME HEIGHT H.M. (cm)	TIME HEIGHT H.M. (cm)	TIME HEIGHT H.M. (cm)	TIME HEIGHT H.M. (cm)	TIME HEIGHT H.M. (cm)
1 0 42 34	9 3 30 245	17 2 2 95	25 3 58 242	1 0 56 60	9 3 48 268	17 2 30 119	25 3 52 261
SA 6 56 227	SU 9 43 37	M 8 5 185	TU 10 8 40	M 6 58 219	TU 10 6 21	W 7 56 163	TH 10 18 22
13 9 62	15 30 251	● 14 46 88	○ 15 56 238	13 27 57	● 15 58 248	● 14 45 93	○ 16 8 235
18 55 209	21 57 -8	21 15 163	22 15 14	19 34 197	E 22 12 5	22 20 168	22 17 24
2 1 17 49	10 4 14 257	18 3 8 114	26 4 25 248	2 1 42 81	10 4 21 271	18 4 50 126	26 4 23 265
SU 7 33 216	M 10 26 29	TU 9 10 163	W 10 38 34	TU 7 43 199	W 10 43 16	TH 10 0 146	F 10 50 16
13 52 71	● 16 14 258	S 16 10 99	E 16 27 241	● 14 21 72	16 36 247	16 30 101	16 44 236
19 42 194	22 39 -13	23 30 162	22 45 13	N 20 42 181	22 47 13		22 50 29
3 2 2 67	11 4 55 262	19 5 42 118	27 4 54 251	3 2 57 102	11 4 53 267	19 0 13 179	27 4 52 262
M 8 19 202	TU 11 3 26	W 11 30 155	TH 11 9 32	W 9 0 178	TH 11 17 17	F 6 50 110	SA 11 24 15
○ 14 50 81	E 16 54 257	18 10 96	16 58 240	15 48 84	17 11 239	12 21 153	17 21 231
20 50 178	23 15 -7		23 15 18	22 45 177	23 18 28	18 22 92	23 27 41
4 3 7 85	12 5 30 260	20 0 57 176	28 5 22 251	4 5 8 108	12 5 22 259	20 1 7 197	28 5 27 254
TU 9 35 187	W 11 42 28	TH 7 17 102	F 11 42 32	TH 11 3 171	F 11 48 21	SA 7 41 90	SU 11 58 19
16 15 87	17 32 248	13 0 167	17 30 234	17 45 79	17 46 228	13 16 171	18 0 223
22 37 171	23 50 6	19 19 80	23 47 27		23 48 45	19 21 75	
5 4 54 95	13 6 1 254	21 1 44 193	29 5 51 246	5 0 30 194	13 5 47 247	21 1 49 214	29 0 3 55
W 11 18 183	TH 12 15 35	F 8 4 84	SA 12 13 36	F 6 58 91	SA 12 18 32	SU 8 12 73	M 6 0 240
N 18 2 77	18 8 233	13 50 184	18 4 224	12 47 186	18 21 214	13 56 190	12 35 30
		20 6 63		19 8 59		20 2 57	18 46 213
6 0 30 182	14 0 21 27	22 2 23 209	30 0 17 42	6 1 40 219	14 0 18 65	22 2 21 230	30 0 46 74
TH 6 44 87	F 6 33 242	SA 8 39 69	SU 6 24 236	SA 8 0 68	SU 6 14 230	M 8 44 57	TU 6 39 221
12 51 197	12 50 46	14 23 201	12 47 44	13 47 208	12 46 44	14 27 207	N 13 17 45
19 23 55	18 42 215	20 41 45	18 46 212	20 5 35	18 55 200	20 37 41	19 41 200
7 1 45 204	15 0 52 50	23 2 56 223		7 2 27 241	15 0 47 84	23 2 53 244	31 1 42 95
F 8 0 69	SA 7 0 226	SU 9 8 57		SU 8 48 46	M 6 41 210	TU 9 13 43	W 7 25 197
13 53 217	13 21 59	14 56 217		14 35 228	13 12 60	E 15 0 221	14 14 63
20 25 29	19 19 196	21 13 30		20 53 17	19 35 186	21 11 31	20 57 189
8 2 41 227	16 1 22 74	24 3 27 233		8 3 10 257	16 1 30 103	24 3 25 254	
SA 8 54 51	SU 7 26 207	M 9 39 47		M 9 30 32	TU 7 10 187	W 9 46 31	
14 46 237	13 56 73	15 27 230		15 18 242	S 13 45 77	15 33 230	
21 15 7	20 2 178	21 46 19		21 35 6	20 30 173	21 44 24	

# LUMUT

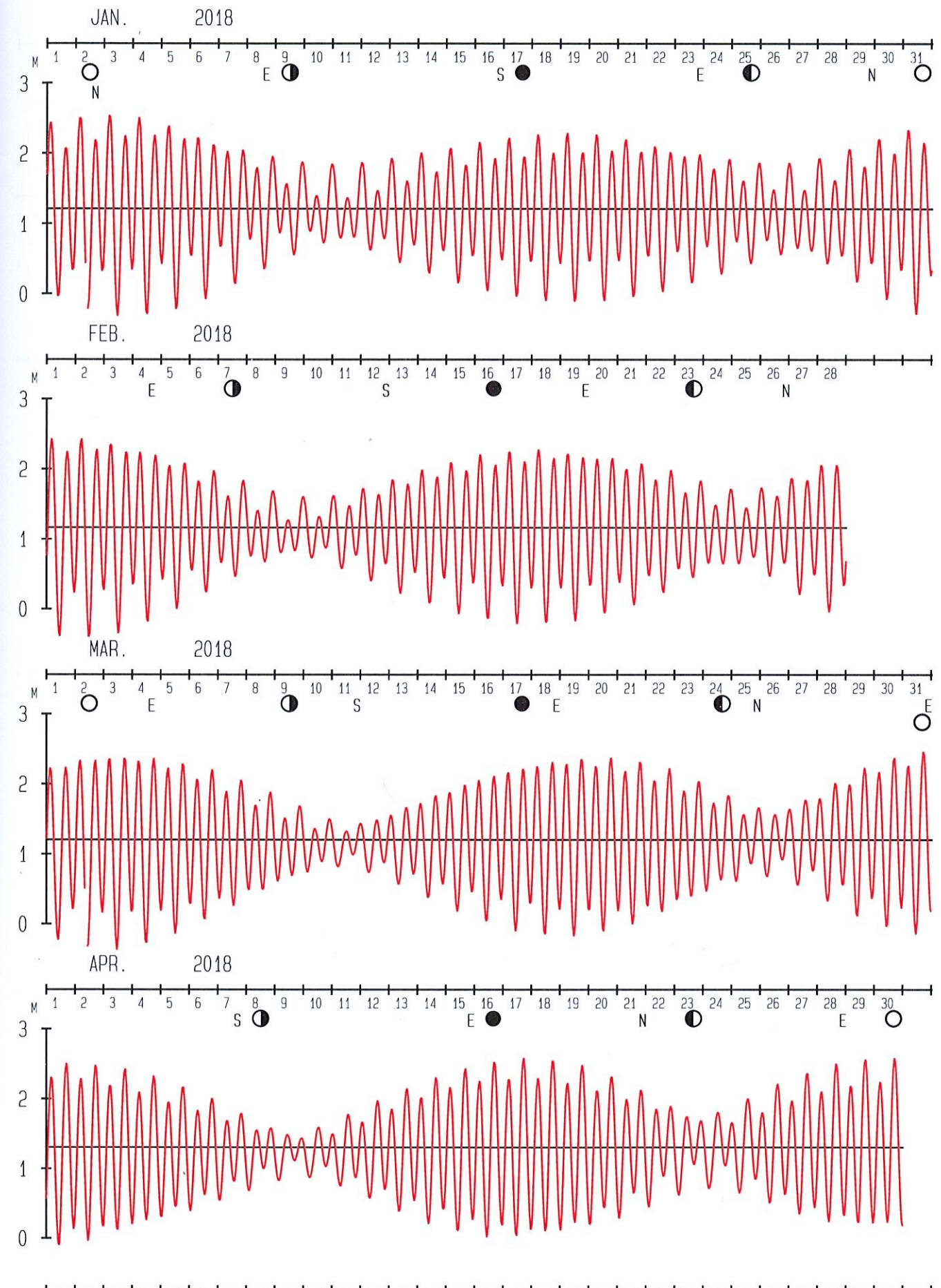
2018

Times and Heights of High and Low Water

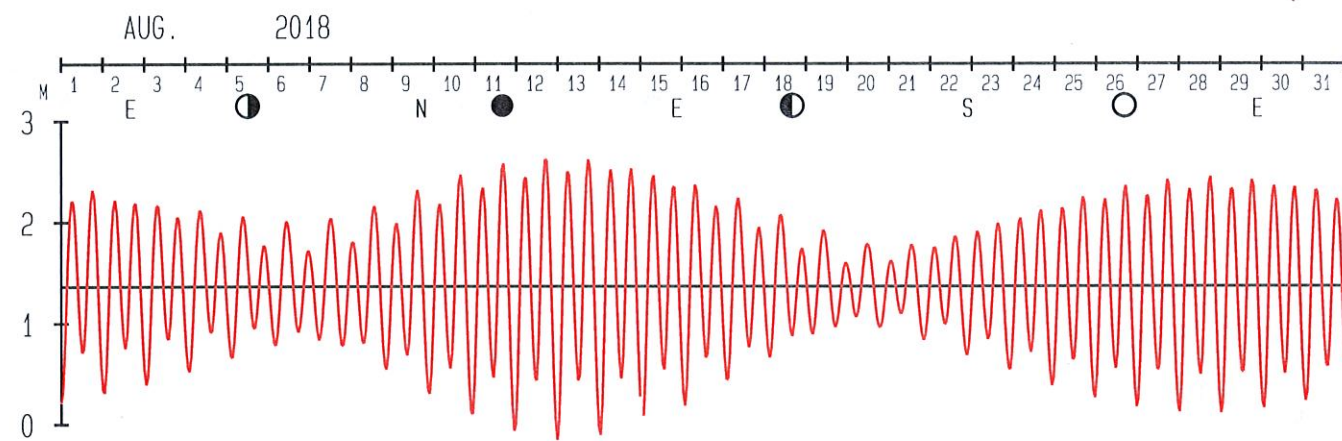
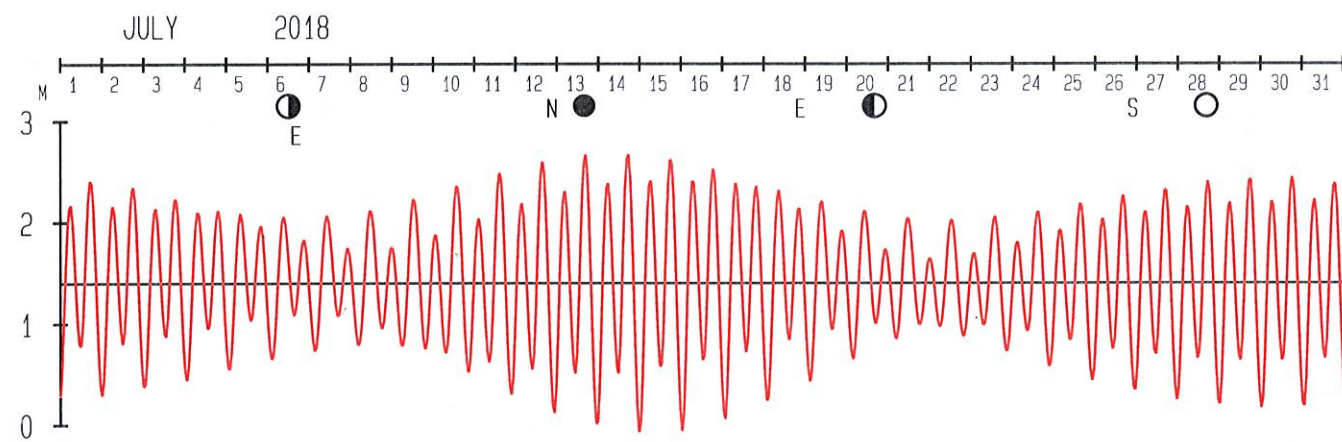
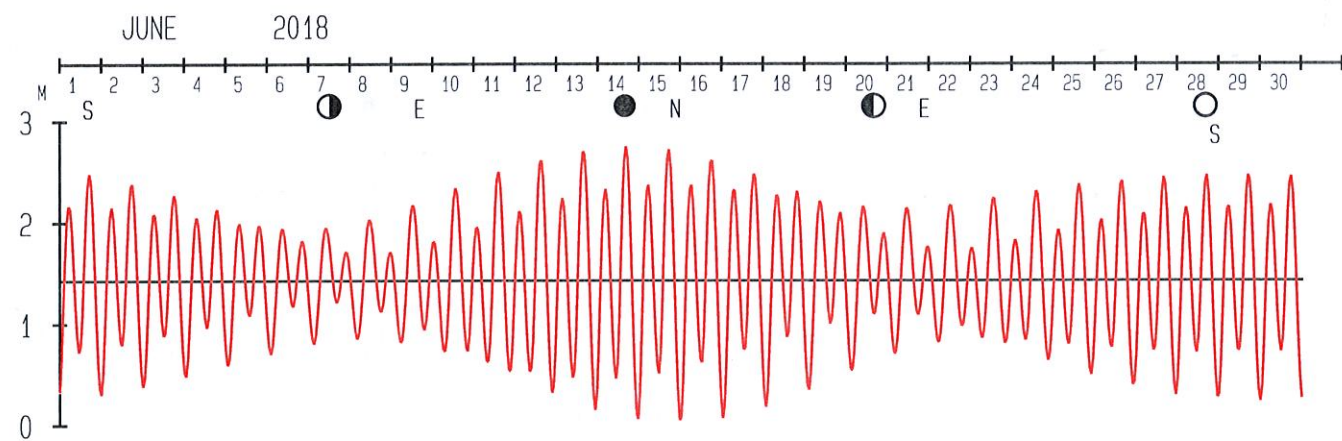
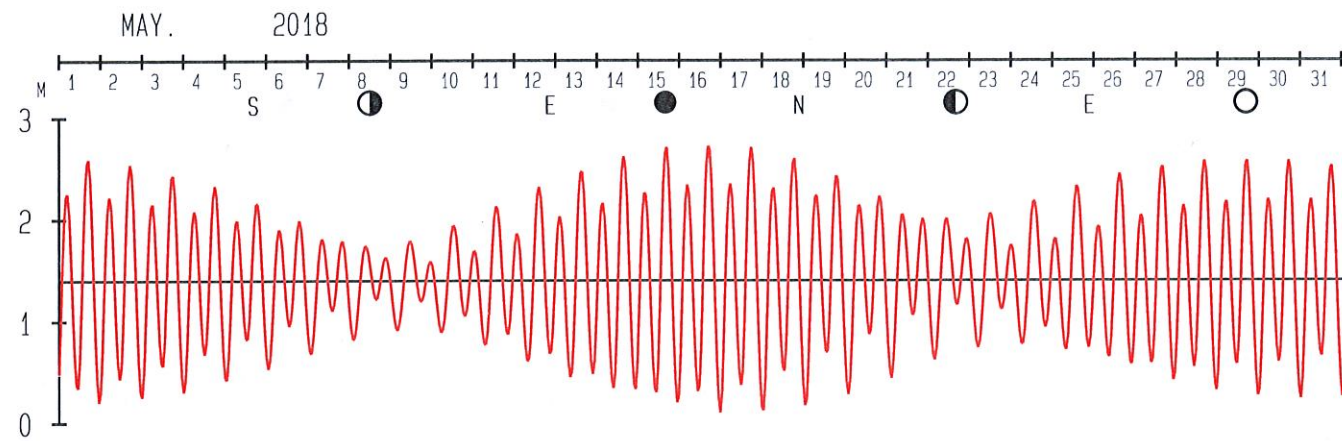
## NOVEMBER

TIME HEIGHT		TIME HEIGHT		TIME HEIGHT		TIME HEIGHT		TIME HEIGHT		TIME HEIGHT		TIME HEIGHT			
H.M. (cm)		H.M. (cm)		H.M. (cm)		H.M. (cm)		H.M. (cm)		H.M. (cm)		H.M. (cm)			
<b>1</b>	3 6 113	<b>9</b>	4 18 265	<b>17</b>	5 30 117	<b>25</b>	4 34 264	<b>1</b>	4 50 107	<b>9</b>	4 22 246	<b>17</b>	5 24 103	<b>25</b>	5 4 252
<b>TH</b>	8 42 174	<b>F</b>	10 54 8	<b>SA</b>	10 42 145	<b>SU</b>	11 10 -2	<b>SA</b>	10 17 162	<b>SU</b>	11 2 4	<b>M</b>	10 39 145	<b>TU</b>	11 44 -19
☉	15 35 77		16 55 228		16 52 92		17 16 227		16 43 68	<b>S</b>	17 16 211	<b>E</b>	16 52 76		18 5 223
	22 50 190		22 50 48				23 16 47		23 50 210		23 2 63				23 59 52
<b>2</b>	5 17 112	<b>10</b>	4 47 258	<b>18</b>	0 12 194	<b>26</b>	5 11 255	<b>2</b>	6 30 90	<b>10</b>	4 52 238	<b>18</b>	0 0 199	<b>26</b>	5 47 242
<b>F</b>	10 52 165	<b>SA</b>	11 22 12	<b>SU</b>	6 52 100	<b>M</b>	11 49 1	<b>SU</b>	12 0 166	<b>M</b>	11 30 9	<b>TU</b>	6 46 86	<b>W</b>	12 28 -11
	17 20 76		17 30 221		12 18 156	<b>N</b>	18 1 222	<b>E</b>	18 2 66		17 47 207		12 10 153		18 55 219
			23 22 61		18 14 82		23 59 61		23 35 70		18 7 69				
<b>3</b>	0 21 208	<b>11</b>	5 14 246	<b>19</b>	1 2 212	<b>27</b>	5 49 241	<b>3</b>	0 48 225	<b>11</b>	5 21 229	<b>19</b>	0 52 213	<b>27</b>	0 50 64
<b>SA</b>	6 56 91	<b>SU</b>	11 49 20	<b>M</b>	7 39 80	<b>TU</b>	12 32 12	<b>M</b>	7 27 66	<b>TU</b>	11 58 16	<b>W</b>	7 34 63	<b>TH</b>	6 33 224
	12 34 178		18 1 212	<b>E</b>	13 13 173		18 52 214		13 10 179		18 17 203		13 16 168		13 11 3
	18 43 62		23 50 74		19 10 67				19 7 59				19 8 59		19 47 213
<b>4</b>	1 19 229	<b>12</b>	5 41 231	<b>20</b>	1 41 228	<b>28</b>	0 47 78	<b>4</b>	1 33 238	<b>12</b>	0 7 78	<b>20</b>	1 37 227	<b>28</b>	1 44 77
<b>SU</b>	7 49 67	<b>M</b>	12 17 31	<b>TU</b>	8 13 61	<b>W</b>	6 33 222	<b>TU</b>	8 14 44	<b>W</b>	5 51 217	<b>TH</b>	8 17 41	<b>F</b>	7 19 203
	13 30 197	<b>S</b>	18 34 203		13 55 190		13 14 27		14 5 193		12 27 27		14 5 185		13 57 21
	19 40 46				19 55 52		19 49 205		19 57 52		18 52 197		20 1 48		20 44 207
<b>5</b>	2 4 248	<b>13</b>	0 23 87	<b>21</b>	2 14 244	<b>29</b>	1 48 95	<b>5</b>	2 14 248	<b>13</b>	0 44 86	<b>21</b>	2 16 241	<b>29</b>	2 44 88
<b>M</b>	8 35 45	<b>TU</b>	6 8 213	<b>W</b>	8 47 41	<b>TH</b>	7 25 198	<b>W</b>	8 53 27	<b>TH</b>	6 22 202	<b>F</b>	8 57 19	<b>SA</b>	8 16 179
<b>E</b>	14 21 214		12 43 45		14 33 205		14 8 45		14 49 203		12 58 39		14 52 199	☉	14 49 41
	20 27 35		19 13 193		20 35 41		21 0 199		20 42 49		19 30 192		20 50 41		21 44 201
<b>6</b>	2 42 261	<b>14</b>	1 2 100	<b>22</b>	2 48 256	<b>30</b>	3 4 107	<b>6</b>	2 49 252	<b>14</b>	1 30 96	<b>22</b>	2 57 251	<b>30</b>	4 5 93
<b>TU</b>	9 11 27	<b>W</b>	6 39 194	<b>TH</b>	9 21 24	<b>F</b>	8 35 176	<b>TH</b>	9 30 14	<b>F</b>	6 58 185	<b>SA</b>	9 39 0	<b>SU</b>	9 30 160
	15 2 226		13 14 61		15 13 216	☉	15 14 61		15 30 211		13 34 51		15 41 211	<b>E</b>	15 51 59
	21 6 28		19 57 184		21 14 34		22 25 200		21 22 50		20 25 186		21 39 36		22 55 201
<b>7</b>	3 18 268	<b>15</b>	1 54 114	<b>23</b>	3 21 264			<b>7</b>	3 20 253	<b>15</b>	2 25 106	<b>23</b>	3 39 257	<b>31</b>	5 41 85
<b>W</b>	9 48 15	<b>TH</b>	7 17 172	<b>F</b>	9 56 10			<b>F</b>	10 1 5	<b>SA</b>	7 46 167	<b>SU</b>	10 19 -13	<b>M</b>	11 10 151
	15 42 232	☉	14 0 76	○	15 52 224			●	16 7 214	☉	14 21 64	<b>N</b>	16 27 219		17 10 70
	21 45 29		21 10 178		21 53 33				21 58 52		21 30 183	○	22 25 38		
<b>8</b>	3 50 269	<b>16</b>	3 21 123	<b>24</b>	3 57 267			<b>8</b>	3 52 251	<b>16</b>	3 45 111	<b>24</b>	4 21 258		
<b>TH</b>	10 21 9	<b>F</b>	8 21 153	<b>SA</b>	10 33 1			<b>SA</b>	10 34 2	<b>SU</b>	8 57 152	<b>M</b>	11 1 -20		
●	16 18 232		15 13 90		16 35 228				16 43 214		15 30 74		17 17 223		
	22 19 37		22 56 181		22 34 37				22 32 57		22 50 187		23 11 43		

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