

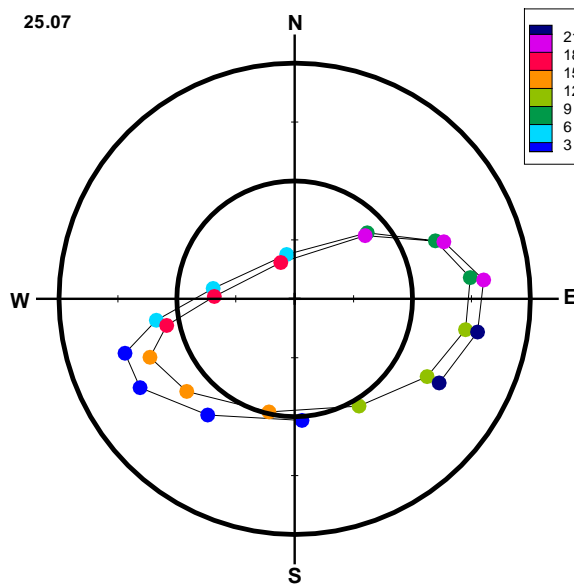




Tøknifrágreiðing

# Sjóvarfalsrákið á Munkagrundinum í ár 2010

Knud Simonsen



Heiti / Title **Sjóvarfalsrákið á Munkagrunninum**  
**í ár 2010**

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# Inngangur

Útrokningarnar eru grundaðar á einari streymmáting á positiún 61°12' N og 6°30' V á Munkagrunninum í tíðarskeiðinum 09.02 – 25.07 1981. Hettar er ein av fleiri streymmátingum, sum Fiskirannsóknarstovan framdi á hesum staðnum frá 1977 til 1982. Útrokningarnar eru gjørdar á Náttúruvísindadeildini á Fróðskaparsetur Føroya, sum partur av einari streymkunningar verkætlan. Meira fæst at vita um verkætlanina á vevsíðuni [www.streymkort.fo](http://www.streymkort.fo).

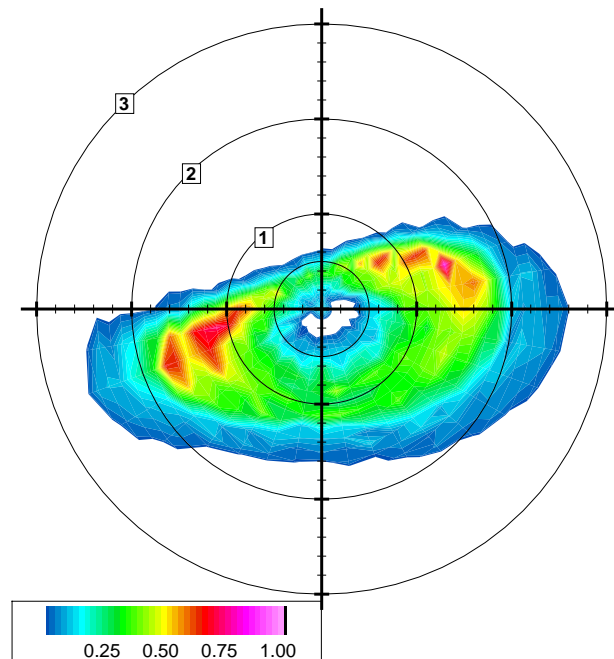
## Fyrivarni

Útrokningar eru gjørdar eftir bestu sannføring og ongin ábyrgd verður tikin fyri avleiðingum orsakaðar av avgerðum grundaðar á hesar útrokningar. Um skeivleikar eru, so vil undirritaði fegin frætta um teir, soleiðis at neyðugar rættingar kunnu gerast. Viðmerkingar um streymkurvuna og talvuna annars eru eisini vælkomnar.

Knud Simonsen  
Náttúruvísindadeildin  
Fróðskaparsetur Føroya.

# Streymrósa

Ein streymrósa vísir hvussu stóran brøkpart av einum árið, ið ráki á einum staðið hefur ávísa ferð og kós. Á mynd 1 er streymrósa fyri Munkagrundin í ár 2009. Hon vísir, at eystfallið á mátistaðnum stórt sæð liggur millum eystan og høgan eystan, meðan vestfallið liggur millum vestan og útsynning. Streymferðin á broddi liggur oftast millum 0.5 og 2.0 knob, men stundum rekur nakað harðari. Eisini sæst, at tað er sjálvdan heilt kyrt á hesum staðnum.



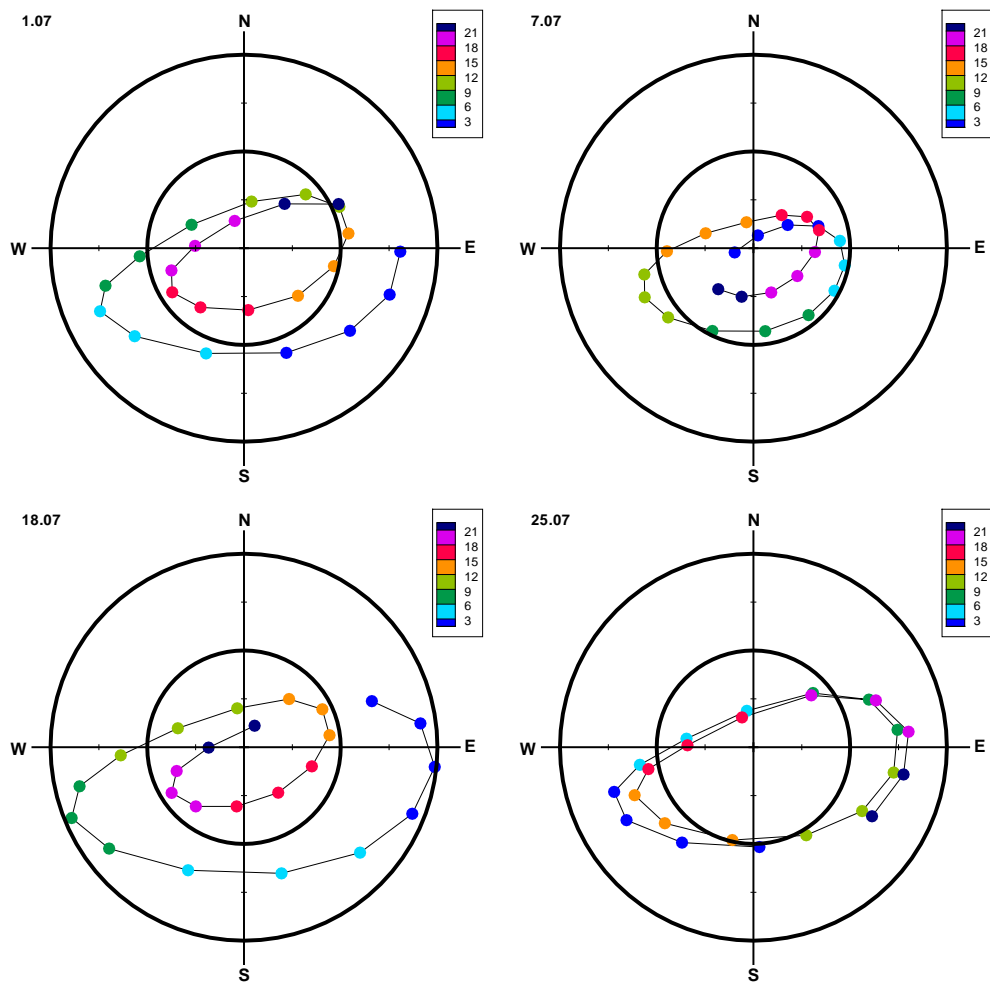
Mynd 1: Streymrósa fyri Munkagrundin 2010. Sirklarnir vísa streymferð í knob, og litirnir vísa brøkpartin (%) av einum árið, ið rákið hefur ávísa ferð og kós í lopum á ávikavist  $10^\circ$  og 0.125 knob.

# Streymellipsur

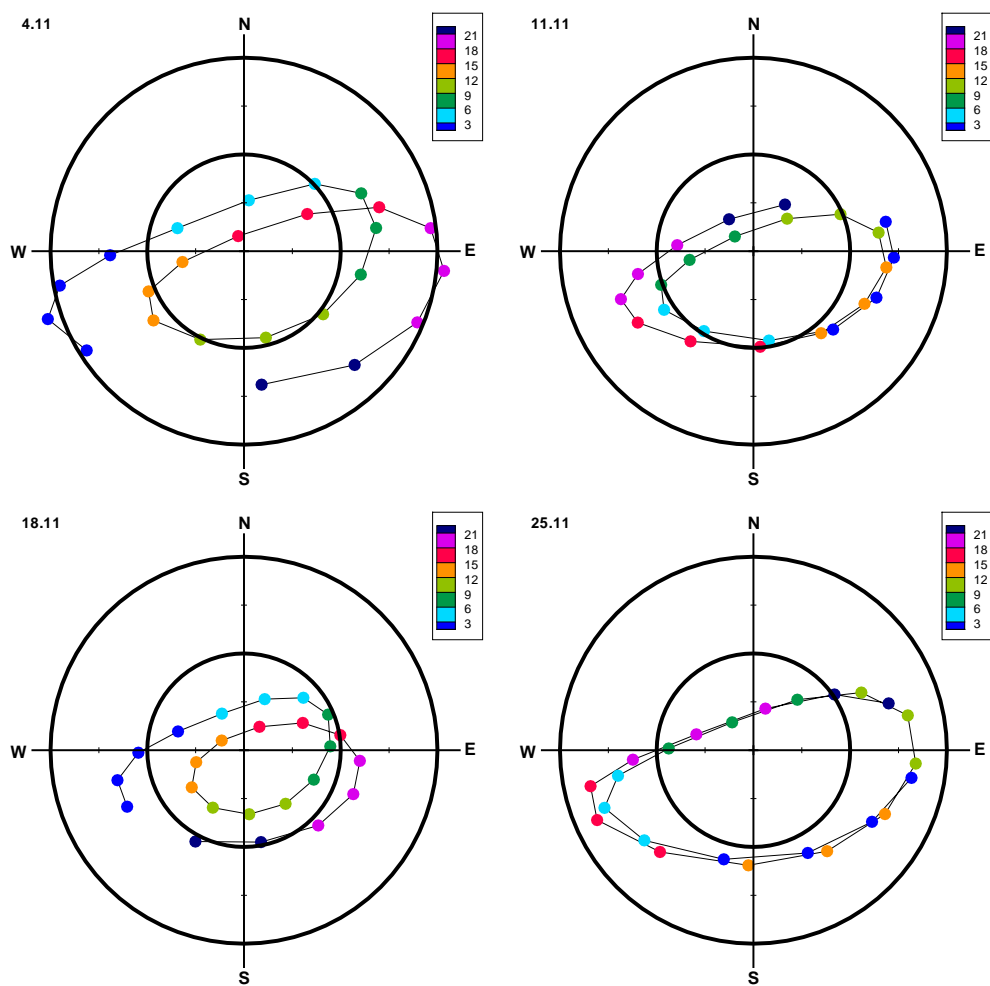
Streymurin til eina ávísa tíð kann lýsast við einum ørvi, sum vísir tann vegin, ið ráki er. Um slíkir ørvar verða teknaðir fyri fleiri tíðir, so fæst, at ørvurin ferðast eftur einum sindur fløtum sirkli, sum nevnist ein ellipsa.

Her á okkara leiðum er sjóvarfallið í stóran mun hálvdagligt, t.v.s. at tað fløðir og fjarðar tvær ferðir í einum døgni. Fyri streymin merkir hetta, at ørvurin skal ferðast kring tveimum ellipsum í einum samdøgni. Umframt tað hálvdagligt sjóvarfalli, so hevur sjóvarfall við øðrum periodum eisini týðning. Hetta ger, at sjóvarfalli broytist gjøgnum árið og stundum eisini at tvey fylgjandi sjóvarføll kunnu verða rættuliga ymisk.

Serliga á sunnaru leiðunum á landgrunninum hevur tað dagliga sjóvarfalli týðning. Hetta ger, at tveir fylgjandi broddar ikki altíð eru líka harðir ella at tvey fylgjandi kyrrindir ikki eru líka kyrr. Á myndunum 2 og 3 er hetta víst við sjóvarfals ellipsum á Munkagrundinum fyri nakrar dagar í 2009.



Mynd 2: Sjóvarfalsellipsur á Munkagrúnninum fyri fjóra dagar í juli mánaða í 2010. Litirnir vísa klókkutíðirnar. Fyrsta tíðin er kl 00<sup>00</sup>, og litirnir skifta hvønn triða tíma (GMT). Millum hvønn runda blettin er 15 minuttir. Sirklarnir vísa streymferðir uppá ávikavíst 1 og 2 knob.

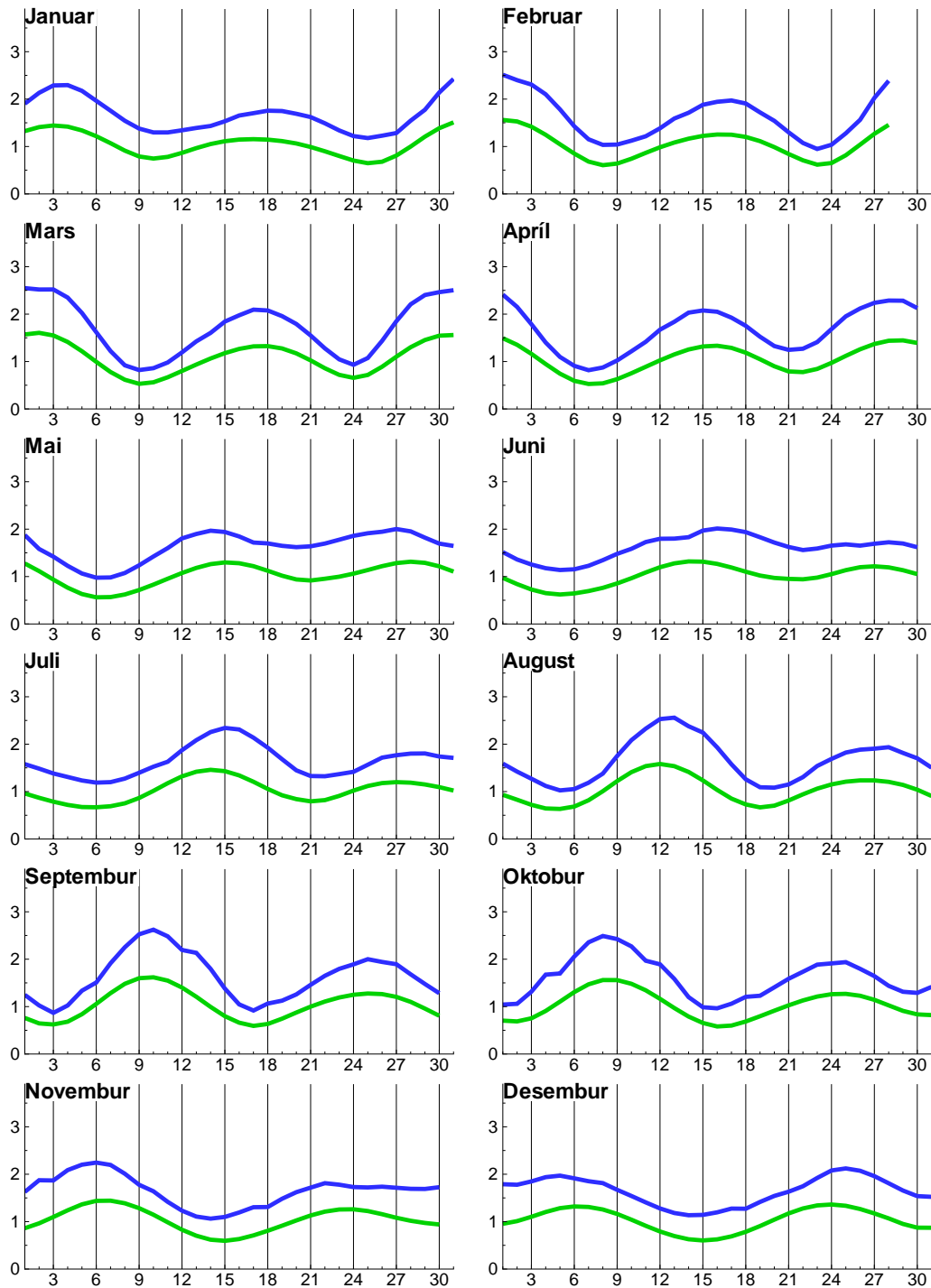


Mynd 3: Sjóvarfalsellipsur á Munkagrúnninum fyri fjóra dagar í november mánaða í 2010. Litirnir vísa klókkutíðirnar. Fyrsta tíðin er kl 00<sup>00</sup>, og litirnir skifta hvøðnn triða tíma (GMT). Millum hvøðnn runda blettin er 15 minuttir. Sirklarnir vísa streymferðir uppá ávikavist 1 og 2 knob.



# Streymkurva

Streymkurvan á mynd 4 vísir dagligu miðal streymstyrkina (grøna linjan) og harðasta rákið fyri hvønn dag (bláa linjan) á mátistaðnum á Munkagrunninum. Hóast roknaða rákið bert er galdandi fyri sjálvtt mátistaðið, so eru lutfalsligu broytingarnar galdandi fyri stórar partar av landgrunninum. Ferðin er givin í knob (sjómíl um tíman). Av tí at útrokningarnar eru grundaðar á mátingar, eigur ikki at verða roknað við nakrari seinking í streyminum í mun til kurvurnar.



Mynd 4: Streymskurva fyri Munkagrúnnin 2010. Grøna linjan vísir dagligan miðal streyms og bláa linjan vísir harðasta ráki fyri hvønn dagin á máttistaðnum.

# Tíðir fyri kyrrindir og broddar

Úti á landgrunninum kann rákið lýsast við einum ørvi, har oddurin ferðast eftir einari ellipsu, sum greitt er frá í pettinum um streymellipsur. Broddur og kyrrindir eru, tá ørvurin er ávikavist longst og stytst, og er hetta nýtt til at rokna klokkutíðirnar fyri eystfalsbrodd (EFB), eystfalskyrrindir (EFK), vestfalsbrodd (VFB) og vestfalskyrrindir (VFK), sum standa í talvunum á teimum næstu síðunum.

Stundum ber tó ikki til at rokna klokkutíðirnar á hendan hátt. Hesar støðurnar eru merktar við strikum í talvunum.

Í tíðarskeiðinum frá 28 mars til 27 oktober, 2010, eru klokkutíðirnar føroysk summartíð í talvunum. Um samanbórið verður við streymellipsunum á myndunum 2 og 3, so eru tíðirnar har ikki summartíð, men GMT (vetrar) tíð. Í mun til Suðuroyarfirði skiftir rákið á Munkagrundinum umleið hálvan tíma áðrenn.

Áftan fyri klokkutíðirnar er rákið á mátistaðnum givið í knob. Roknaða rákið er, sum fyri streymkurvuna, bert fyri mátistaðið á Munkagrundinum, og er sum so ikki galdandi aðrastaðni. Um hugt verður eftur tølunum, so sæst, at stundum eru tveir fylgjandi broddar, ella tveir fylgjandi vestfals (ella eystfals) broddar ikki líka harðir og at munur kann verða á kyrrindunum. Hetta er orsakað av dagliga sjóvarfallinum, sum greitt er frá frammanfyri. Hóast roknaða rákið ikki er galdandi aðrastaðni enn á mátistaðnum, so er tann lutfalsligi munurin tó galdandi á stórum parti á landgrunninum. Hesi viðurskiftini eru tó ikki galdandi flestu staðni nær landi og inni á firðunum, har streymurin er nærur eingin á kyrrindunum.

Við í útrokningunum er sjóvarfallið og eitt miðalrák, sum er í ein landsynningsunnan á mátistaðnum. Streymur, ið er orsakaður av vindi og broytandi barometurstandi, er ikki við.

Januar 2010

Pos.: 61°12' N, 6°30' V

Dag	EFB		EFK		VFB		VFK	
	tt:mm	rák	tt:mm	rák	tt:mm	rák	tt:mm	rák
01			00:39	1.2	03:04	1.7	06:19	0.3
	09:34	1.7	12:50	1.2	15:23	1.9	18:32	0.3
	22:01	1.9						
02			01:35	1.2	03:49	1.7	06:56	0.3
	10:22	1.9	13:38	1.3	16:10	2.1	19:29	0.4
	22:51	1.9						
03			02:27	1.1	04:33	1.6	07:33	0.3
	11:12	2.0	14:26	1.4	16:59	2.3	20:27	0.5
	23:41	1.8						
04			03:15	1.1	05:17	1.5	08:10	0.3
	12:01	2.1	15:16	1.5	17:49	2.3	21:26	0.5
05	00:31	1.6	04:01	0.9	06:00	1.3	08:48	0.2
	12:50	2.1	16:06	1.4	18:42	2.2	22:26	0.5
06	01:20	1.3	04:43	0.8	06:45	1.1	09:29	0.2
	13:40	2.0	17:00	1.3	19:37	2.0	23:29	0.5
07	02:09	1.0	05:21	0.6	07:34	0.9	10:16	0.1
	14:34	1.8	17:58	1.2	20:35	1.7		
08							00:35	0.4
	03:02	0.8	05:55	0.5	08:30	0.7	11:13	0.1
	15:39	1.6	19:03	1.1	21:37	1.5		
09							01:42	0.3
	04:03	0.6	06:33	0.4	09:37	0.7	12:25	0.1
	17:02	1.4	20:17	1.0	22:44	1.3		
10							02:47	0.3
	05:13	0.6	07:22	0.5	10:54	0.7	13:51	0.2
	18:26	1.3	21:31	1.0	23:50	1.2		
11							03:40	0.3
	06:22	0.7	09:14	0.6	12:10	0.9	15:18	0.2
	19:30	1.3	22:36	0.9				
12					00:49	1.2	04:24	0.3
	07:22	0.9	10:36	0.8	13:12	1.1	16:28	0.3
	20:18	1.4	23:30	0.9				
13					01:41	1.2	05:02	0.3
	08:10	1.2	11:31	0.9	14:03	1.3	17:22	0.3
	20:58	1.4						
14			00:15	0.9	02:26	1.3	05:38	0.3
	08:52	1.4	12:17	1.0	14:46	1.4	18:06	0.3
	21:33	1.4						
15			00:54	0.9	03:07	1.3	06:13	0.3
	09:32	1.5	12:56	1.1	15:24	1.6	18:45	0.4
	22:05	1.5						
16					01:29	0.9	03:44	1.3
	10:11	1.6	13:32	1.1	16:00	1.7	19:22	0.4
	22:36	1.4						
17			02:01	0.9	04:17	1.3	07:14	0.4
	10:48	1.7	14:06	1.1	16:34	1.7	19:59	0.4
	23:06	1.4						
18			02:30	0.8	04:46	1.2	07:39	0.4
	11:25	1.7	14:39	1.2	17:09	1.8	20:39	0.5
	23:36	1.3						
19			02:57	0.8	05:14	1.1	08:03	0.3
	12:01	1.7	15:14	1.2	17:44	1.8	21:21	0.5
20	00:07	1.2	03:22	0.7	05:42	1.0	08:27	0.3
	12:35	1.7	15:49	1.2	18:22	1.7	22:06	0.5
21	00:42	1.0	03:49	0.6	06:14	0.9	08:57	0.3
	13:10	1.6	16:26	1.1	19:04	1.6	22:54	0.5
22	01:22	0.9	04:22	0.5	06:51	0.8	09:32	0.2
	13:46	1.4	17:04	1.1	19:49	1.5	23:46	0.4
23	02:10	0.7	05:06	0.4	07:37	0.7	10:17	0.2
	14:29	1.2	17:44	1.0	20:40	1.4		
24							00:44	0.3
	03:09	0.6	06:01	0.4	08:35	0.5	11:15	0.1
	15:25	1.1	18:35	0.9	21:41	1.2		
25							01:48	0.2
	04:22	0.6	07:10	0.4	09:47	0.5	12:32	0.1
	16:44	1.0	19:53	0.9	22:56	1.2		
26							02:55	0.2
	05:45	0.7	08:45	0.5	11:14	0.6	14:02	0.1
	18:22	1.1	21:23	0.9				
27					00:12	1.2	03:54	0.2
	06:55	0.8	09:59	0.6	12:30	0.9	15:25	0.1
	19:30	1.3	22:38	1.0				
28					01:13	1.3	04:42	0.2
	07:50	1.1	10:54	0.8	13:31	1.3	16:35	0.2
	20:21	1.6	23:42	1.0				
29					02:05	1.5	05:23	0.3
	08:39	1.5	11:44	1.1	14:23	1.8	17:36	0.3
	21:08	1.8						
30			00:38	1.1	02:51	1.6	05:58	0.3
	09:24	1.8	12:34	1.3	15:11	2.1	18:32	0.4
	21:53	1.9						
31			01:26	1.1	03:34	1.6	06:33	0.3
	10:09	2.1	13:23	1.5	15:58	2.4	19:25	0.5
	22:36	1.9						

Februar 2010

Pos.: 61°12' N, 6°30' V

Dag	EFB		EFK		VFB		VFK	
	tt:mm	rák	tt:mm	rák	tt:mm	rák	tt:mm	rák
01			02:10	1.1	04:15	1.6	07:08	0.3
	10:53	2.3	14:12	1.6	16:45	2.5	20:17	0.6
	23:19	1.8						
02			02:49	1.1	04:56	1.5	07:45	0.3
	11:38	2.4	15:01	1.6	17:31	2.5	21:08	0.6
03	00:02	1.6	03:24	1.0	05:37	1.4	08:24	0.3
	12:24	2.3	15:50	1.5	18:19	2.2	22:00	0.5
04	00:45	1.3	03:55	0.8	06:20	1.3	09:07	0.3
	13:12	2.1	16:43	1.3	19:08	1.9	22:52	0.4
05	01:30	1.0	04:23	0.6	07:07	1.1	09:55	0.3
	14:05	1.8	17:40	1.2	20:00	1.5	23:49	0.3
06	02:19	0.8	04:53	0.5	08:01	0.9	10:52	0.2
	15:13	1.4	18:47	1.0	20:57	1.2		
07							00:53	0.2
	03:19	0.6	05:35	0.4	09:07	0.7	12:06	0.2
08	16:49	1.2	20:09	0.9	22:05	1.0		
							02:04	0.2
09	04:38	0.5	06:23	0.4	10:29	0.7	13:43	0.2
	18:24	1.0	21:33	0.8	23:22	0.9		
10							03:10	0.2
	06:14	0.6	08:19	0.6	11:52	0.8	15:17	0.2
11	19:27	1.1	22:37	0.7				
					00:32	0.9	04:02	0.2
12	07:30	0.8	10:18	0.7	12:57	1.0	16:24	0.3
	20:10	1.1	23:25	0.8				
13					01:26	1.0	04:43	0.2
	08:07	1.1	11:10	0.8	13:46	1.2	17:12	0.3
14	20:41	1.2						
			00:03	0.8	02:10	1.1	05:19	0.3
15	08:42	1.3	11:51	0.9	14:26	1.4	17:49	0.3
	21:09	1.3						
16			00:35	0.9	02:47	1.2	05:51	0.3
	09:16	1.5	12:27	1.0	15:01	1.6	18:23	0.4
17	21:37	1.4						
			01:03	0.9	03:20	1.2	06:18	0.4
18	09:49	1.7	13:01	1.1	15:35	1.7	18:57	0.4
	22:05	1.5						
19			01:30	0.9	03:48	1.3	06:43	0.4
	10:22	1.8	13:34	1.2	16:07	1.9	19:32	0.5
20	22:33	1.5						

Dag	EFB		EFK		VFB		VFK	
	tt:mm	rák	tt:mm	rák	tt:mm	rák	tt:mm	rák
16			01:55	0.9	04:16	1.3	07:06	0.4
	10:54	1.9	14:08	1.3	16:40	2.0	20:08	0.5
17	23:03	1.4						
			02:21	0.8	04:44	1.2	07:30	0.4
18	11:26	1.9	14:42	1.3	17:14	2.0	20:46	0.5
	23:36	1.4						
19			02:47	0.8	05:14	1.2	07:59	0.4
	11:58	1.9	15:16	1.3	17:50	1.9	21:26	0.5
20	00:12	1.2	03:17	0.7	05:48	1.1	08:32	0.4
	12:30	1.7	15:51	1.2	18:28	1.8	22:08	0.4
21	00:53	1.1	03:51	0.7	06:27	1.0	09:12	0.3
	13:07	1.5	16:29	1.1	19:11	1.5	22:55	0.3
22	01:39	0.9	04:30	0.6	07:13	0.9	09:59	0.3
	13:51	1.3	17:14	1.0	20:00	1.3	23:53	0.2
23	02:35	0.7	05:17	0.4	08:12	0.7	10:59	0.2
	14:51	1.1	18:17	0.8	21:02	1.1		
24							01:08	0.2
	03:46	0.6	06:14	0.4	09:27	0.7	12:23	0.1
25	16:22	0.9	19:57	0.8	22:28	1.0		
							02:29	0.2
26	05:22	0.6	07:25	0.5	10:56	0.8	14:03	0.1
	18:25	1.0	21:33	0.8	23:55	1.0		
27							03:34	0.2
	06:52	0.8	09:26	0.7	12:16	1.1	15:30	0.2
28	19:28	1.3	22:45	0.9				
							00:58	1.1
29	07:46	1.2	10:30	1.0	13:18	1.6	16:38	0.3
	20:14	1.6	23:42	1.0				
30					01:48	1.3	04:57	0.2
	08:28	1.6	11:24	1.2	14:10	2.0	17:34	0.4
31	20:54	1.8						
			00:28	1.1	02:32	1.4	05:31	0.2
32	09:07	2.0	12:15	1.4	14:57	2.4	18:25	0.5
	21:33	1.9						



Apríl 2010

Pos.: 61°12' N, 6°30' V

Dag	EFB		EFK		VFB		VFK	
	tt:mm	rák	tt:mm	rák	tt:mm	rák	tt:mm	rák
01			02:41	1.1	05:13	1.8	08:08	0.4
	11:53	2.4	15:27	1.5	17:45	2.2	21:10	0.4
02	00:03	1.6	03:14	1.1	05:55	1.7	08:54	0.4
	12:40	2.2	16:17	1.4	18:27	1.8	21:48	0.3
03	00:45	1.4	03:51	1.0	06:38	1.6	09:43	0.4
	13:29	1.8	17:08	1.2	19:08	1.5	22:27	0.3
04	01:31	1.2	04:31	0.8	07:24	1.3	10:36	0.4
	14:24	1.4	18:04	0.9	19:51	1.1	23:09	0.2
05	02:23	1.0	05:14	0.7	08:15	1.1	11:38	0.3
	15:34	1.0	19:12	0.7	20:36	0.7	23:59	0.1
06	03:25	0.8	06:03	0.6	09:18	0.9	12:53	0.3
	17:01	0.8	—	—	—	—		
07							01:06	0.1
	04:41	0.6	06:59	0.5	10:35	0.8	14:23	0.2
	18:29	0.7	—	—	—	—		
08							02:30	0.1
	06:36	0.6	08:34	0.6	11:54	0.9	15:47	0.3
	19:34	0.7	23:35	0.5				
09					00:30	0.5	03:42	0.1
	07:50	0.8	09:55	0.7	12:58	1.0	16:43	0.3
	20:09	0.8						
10			00:06	0.6	01:27	0.6	04:31	0.2
	08:23	1.0	10:49	0.8	13:47	1.2	17:23	0.4
	20:36	1.0						
11			00:27	0.7	02:07	0.7	05:06	0.2
	08:53	1.2	11:32	0.9	14:26	1.4	17:56	0.4
	21:03	1.1						
12			00:40	0.8	02:39	0.9	05:34	0.3
	09:21	1.4	12:10	1.0	15:01	1.7	18:27	0.5
	21:31	1.3						
13			00:59	0.8	03:10	1.0	06:01	0.3
	09:49	1.6	12:46	1.2	15:34	1.9	18:58	0.5
	22:00	1.5						
14			01:25	0.9	03:42	1.2	06:30	0.3
	10:18	1.8	13:22	1.3	16:07	2.0	19:30	0.5
	22:32	1.6						
15			01:55	0.9	04:16	1.3	07:02	0.3
	10:48	1.9	14:00	1.3	16:41	2.1	20:03	0.4
	23:06	1.6						

Dag	EFB		EFK		VFB		VFK	
	tt:mm	rák	tt:mm	rák	tt:mm	rák	tt:mm	rák
16			02:26	1.0	04:52	1.5	07:39	0.4
	11:21	2.0	14:39	1.3	17:16	2.1	20:38	0.4
	23:44	1.6						
17			03:00	1.0	05:30	1.5	08:19	0.4
	11:57	1.9	15:21	1.3	17:55	1.9	21:15	0.4
18	00:25	1.5	03:36	1.0	06:11	1.5	09:04	0.4
	12:39	1.8	16:09	1.2	18:36	1.7	21:57	0.3
19	01:10	1.4	04:15	0.9	06:56	1.5	09:56	0.3
	13:27	1.6	17:04	1.0	19:21	1.4	22:44	0.3
20	02:03	1.2	04:57	0.9	07:48	1.3	10:58	0.3
	14:25	1.3	18:11	0.9	20:14	1.1	23:38	0.2
21	03:07	1.0	05:47	0.8	08:51	1.2	12:16	0.3
	15:42	1.1	19:34	0.7	21:17	0.8		
22							00:45	0.1
	04:25	0.9	06:49	0.8	10:06	1.3	13:47	0.3
	17:24	1.0	21:08	0.7	22:29	0.7		
23							01:57	0.1
	05:52	1.0	08:17	0.9	11:27	1.4	15:14	0.4
	18:47	1.1	22:34	0.7	23:48	0.7		
24							03:01	0.0
	07:03	1.2	09:36	1.0	12:40	1.7	16:26	0.5
	19:43	1.2	23:27	0.8				
25					00:56	0.9	03:54	0.1
	07:54	1.5	10:42	1.2	13:40	2.0	17:22	0.5
	20:24	1.3						
26			00:02	0.9	01:52	1.0	04:43	0.1
	08:38	1.9	11:41	1.3	14:31	2.2	18:09	0.5
	21:02	1.5						
27			00:33	1.0	02:42	1.3	05:31	0.2
	09:21	2.1	12:37	1.4	15:17	2.3	18:50	0.5
	21:40	1.5						
28			01:03	1.0	03:28	1.5	06:20	0.3
	10:06	2.3	13:31	1.4	16:00	2.2	19:28	0.4
	22:18	1.6						
29			01:37	1.1	04:12	1.7	07:09	0.4
	10:51	2.3	14:23	1.4	16:42	2.1	20:04	0.4
	22:58	1.6						
30			02:16	1.1	04:56	1.8	07:58	0.4
	11:38	2.1	15:12	1.3	17:23	1.9	20:39	0.3
	23:41	1.6						

Mai 2010

Pos.: 61°12' N, 6°30' V

Dag	EFB		EFK		VFB		VFK	
	tt:mm	råk	tt:mm	råk	tt:mm	råk	tt:mm	råk
01			02:59	1.1	05:39	1.7	08:48	0.4
	12:25	1.9	16:00	1.2	18:04	1.6	21:14	0.3
02	00:26	1.5	03:45	1.1	06:22	1.6	09:38	0.4
	13:13	1.6	16:48	1.0	18:45	1.3	21:52	0.2
03	01:14	1.4	04:29	1.0	07:07	1.4	10:30	0.4
	14:04	1.3	17:38	0.8	19:26	1.0	22:31	0.2
04	02:06	1.2	05:14	0.8	07:56	1.2	11:28	0.3
	15:00	1.0	18:33	0.6	20:08	0.7	23:14	0.1
05	03:02	1.0	05:59	0.7	08:51	1.1	12:34	0.3
	16:04	0.7	19:40	0.5	20:43	0.5		
06							00:03	0.1
	04:06	0.8	06:49	0.7	09:56	1.0	13:49	0.3
	17:13	0.6	—	—	—	—		
07							01:05	0.1
	05:21	0.7	07:49	0.7	11:06	1.0	15:04	0.3
	18:18	0.6	—	—	—	—		
08							02:12	0.1
	06:44	0.8	08:57	0.7	12:11	1.1	16:05	0.4
	19:09	0.7	—	—	—	—		
09							03:11	0.1
	07:37	0.9	09:55	0.8	13:04	1.2	16:47	0.4
	19:49	0.8	—	—	—	—		
10					00:29	0.6	03:59	0.2
	08:14	1.1	10:43	0.9	13:47	1.4	17:22	0.4
	20:24	1.0						
11			00:03	0.7	01:45	0.7	04:40	0.2
	08:45	1.3	11:25	1.0	14:25	1.6	17:54	0.4
	20:57	1.2						
12			00:26	0.8	02:30	0.9	05:18	0.2
	09:15	1.5	12:06	1.1	15:01	1.8	18:26	0.4
	21:30	1.4						
13			00:56	0.8	03:11	1.1	05:57	0.2
	09:46	1.7	12:48	1.2	15:37	1.9	19:00	0.4
	22:05	1.5						
14			01:30	0.9	03:51	1.3	06:38	0.3
	10:20	1.8	13:32	1.3	16:15	2.0	19:35	0.4
	22:43	1.6						
15			02:05	1.0	04:32	1.5	07:22	0.3
	10:58	1.9	14:20	1.3	16:55	1.9	20:12	0.3
	23:24	1.7						
16			02:44	1.1	05:13	1.7	08:09	0.3
	11:41	1.9	15:10	1.2	17:37	1.8	20:51	0.3
17	00:10	1.6	03:25	1.1	05:58	1.7	09:02	0.3
	12:29	1.7	16:04	1.1	18:21	1.6	21:33	0.3
18	01:00	1.6	04:10	1.1	06:46	1.7	10:00	0.3
	13:22	1.6	17:02	1.0	19:08	1.3	22:17	0.3
19	01:57	1.4	04:59	1.1	07:40	1.7	11:07	0.4
	14:24	1.3	18:06	0.8	19:59	1.0	23:05	0.2
20	02:59	1.4	05:54	1.1	08:42	1.6	12:23	0.4
	15:36	1.1	19:16	0.7	20:55	0.8	23:57	0.1
21	04:03	1.3	06:55	1.1	09:51	1.6	13:44	0.4
	16:51	1.0	20:32	0.6	21:54	0.7		
22							00:56	0.0
	05:09	1.3	08:03	1.1	11:04	1.7	15:03	0.5
	18:02	1.0	21:49	0.6	23:01	0.7		
23							02:01	0.0
	06:18	1.4	09:14	1.1	12:13	1.8	16:10	0.5
	19:01	1.0	22:41	0.7				
24					00:16	0.8	03:06	0.0
	07:21	1.6	10:21	1.2	13:14	1.9	17:04	0.5
	19:50	1.1	23:18	0.8				
25					01:22	0.9	04:10	0.1
	08:16	1.8	11:24	1.2	14:07	1.9	17:49	0.4
	20:33	1.2	23:53	0.9				
26					02:18	1.2	05:11	0.2
	09:06	1.9	12:24	1.3	14:55	1.9	18:28	0.4
	21:15	1.4						
27			00:32	1.0	03:09	1.4	06:08	0.3
	09:54	2.0	13:19	1.3	15:40	1.8	19:03	0.3
	21:58	1.5						
28			01:17	1.1	03:56	1.6	07:02	0.4
	10:41	2.0	14:10	1.3	16:22	1.7	19:37	0.3
	22:41	1.6						
29			02:05	1.1	04:41	1.7	07:53	0.4
	11:27	1.8	14:57	1.2	17:04	1.6	20:12	0.3
	23:25	1.7						
30			02:53	1.2	05:24	1.7	08:42	0.4
	12:11	1.7	15:41	1.1	17:45	1.4	20:48	0.3
31	00:11	1.6	03:38	1.1	06:06	1.6	09:29	0.4
	12:54	1.5	16:24	0.9	18:25	1.2	21:25	0.3



Juni 2010

Pos.: 61°12' N, 6°30' V

Dag	EFB		EFK		VFB		VFK	
	tt:mm	råk	tt:mm	råk	tt:mm	råk	tt:mm	råk
01	00:58	1.5	04:19	1.0	06:48	1.5	10:16	0.4
	13:35	1.2	17:05	0.8	19:04	1.0	22:00	0.3
02	01:45	1.4	04:58	1.0	07:32	1.4	11:07	0.4
	14:17	1.0	17:45	0.6	19:40	0.7	22:34	0.2
03	02:33	1.2	05:38	0.9	08:19	1.3	12:03	0.4
	15:00	0.8	18:25	0.4	20:14	0.5	23:06	0.2
04	03:24	1.1	06:20	0.8	09:11	1.2	13:06	0.3
	15:48	0.6	19:03	0.4	20:49	0.4	23:42	0.1
05	04:20	1.0	07:07	0.8	10:08	1.1	14:13	0.4
	16:47	0.5	19:44	0.3	21:28	0.4		
06							00:31	0.1
	05:24	0.9	08:00	0.8	11:10	1.2	15:15	0.4
07	17:54	0.5	20:40	0.4	22:09	0.4		
							01:34	0.1
08	06:31	1.0	08:56	0.8	12:08	1.2	16:04	0.4
	18:54	0.7	22:11	0.5	23:01	0.5		
09							02:41	0.1
	07:25	1.0	09:50	0.9	13:00	1.3	16:43	0.4
10	19:42	0.8	23:13	0.6				
					00:48	0.6	03:44	0.1
11	08:06	1.2	10:41	1.0	13:46	1.5	17:20	0.3
	20:24	1.0	23:52	0.7				
12					01:54	0.8	04:40	0.2
	08:43	1.3	11:32	1.0	14:30	1.6	17:57	0.3
13	21:04	1.3						
			00:29	0.8	02:45	1.1	05:32	0.2
14	09:21	1.5	12:24	1.1	15:13	1.7	18:35	0.3
	21:44	1.4						
15			01:07	0.9	03:31	1.3	06:22	0.2
	10:02	1.7	13:17	1.2	15:56	1.8	19:14	0.3
16	22:26	1.6			04:15	1.6	07:13	0.2
			01:47	1.0	04:15	1.6	07:13	0.2
17	10:46	1.8	14:11	1.2	16:39	1.8	19:53	0.3
	23:11	1.7						
18			02:31	1.2	05:00	1.8	08:07	0.3
	11:33	1.8	15:05	1.2	17:24	1.7	20:32	0.3
19	00:00	1.8	03:17	1.3	05:47	2.0	09:03	0.4
	12:23	1.8	15:58	1.1	18:08	1.5	21:11	0.3

Dag	EFB		EFK		VFB		VFK	
	tt:mm	råk	tt:mm	råk	tt:mm	råk	tt:mm	råk
16	00:52	1.8	04:04	1.3	06:36	2.1	10:03	0.4
	13:16	1.6	16:52	1.0	18:54	1.3	21:51	0.3
17	01:44	1.8	04:54	1.3	07:29	2.0	11:07	0.5
	14:12	1.4	17:45	0.8	19:41	1.1	22:32	0.2
18	02:37	1.8	05:46	1.3	08:27	2.0	12:15	0.5
	15:10	1.2	18:38	0.7	20:30	0.9	23:16	0.1
19	03:31	1.7	06:42	1.2	09:29	1.9	13:27	0.5
	16:09	1.0	19:30	0.6	21:25	0.7		
20							00:09	0.1
	04:30	1.6	07:45	1.2	10:34	1.7	14:39	0.4
21	17:11	0.8	20:21	0.5	22:28	0.7		
							01:13	0.0
22	05:41	1.5	08:55	1.1	11:42	1.6	15:46	0.4
	18:16	0.8	21:15	0.6	23:43	0.7		
23							02:30	0.1
	06:58	1.5	10:07	1.1	12:46	1.6	16:41	0.3
24	19:16	0.8	22:18	0.6				
					00:56	0.9	03:49	0.2
25	08:06	1.6	11:16	1.1	13:44	1.5	17:26	0.3
	20:10	1.0	23:18	0.8				
26					02:00	1.1	05:02	0.3
	09:01	1.7	12:18	1.1	14:36	1.5	18:05	0.3
27	20:59	1.2						
			00:15	0.9	02:55	1.4	06:05	0.3
28	09:50	1.7	13:11	1.1	15:23	1.5	18:41	0.3
	21:45	1.4						
29			01:08	1.0	03:43	1.6	07:00	0.4
	10:33	1.7	13:58	1.1	16:07	1.5	19:16	0.3
30	22:29	1.6						
			01:57	1.1	04:27	1.7	07:47	0.4
31	11:13	1.6	14:40	1.0	16:48	1.4	19:52	0.3
	23:13	1.7						
32			02:41	1.2	05:08	1.7	08:31	0.4
	11:51	1.5	15:18	1.0	17:27	1.3	20:27	0.3
33	23:56	1.7						
			03:21	1.1	05:47	1.7	09:12	0.4
34								
	12:27	1.4	15:54	0.9	18:04	1.2	21:00	0.3
35	00:38	1.7	03:58	1.1	06:25	1.7	09:54	0.4
	13:01	1.3	16:27	0.8	18:37	1.0	21:29	0.3

Juli 2010

Pos.: 61°12' N, 6°30' V

Dag	EFB		EFK		VFB		VFK	
	tt:mm	råk	tt:mm	råk	tt:mm	råk	tt:mm	råk
01	01:19	1.6	04:33	1.1	07:03	1.6	10:38	0.4
	13:34	1.1	16:57	0.6	19:07	0.8	21:55	0.3
02	01:59	1.5	05:09	1.0	07:43	1.5	11:27	0.4
	14:08	0.9	17:23	0.5	19:35	0.7	22:19	0.2
03	02:38	1.4	05:46	1.0	08:26	1.4	12:20	0.4
	14:44	0.7	17:52	0.4	20:08	0.6	22:49	0.2
04	03:18	1.2	06:25	0.9	09:12	1.3	13:16	0.4
	15:27	0.6	18:30	0.3	20:49	0.5	23:29	0.1
05	04:03	1.1	07:07	0.9	10:04	1.2	14:14	0.4
	16:27	0.5	19:23	0.3	21:40	0.4		
06							00:26	0.1
	05:00	1.0	07:54	0.8	11:02	1.2	15:10	0.3
07	17:44	0.6	20:33	0.4	22:42	0.4		
							01:39	0.1
08	06:15	0.9	08:54	0.8	12:07	1.2	16:01	0.3
	18:56	0.7	22:10	0.5				
09					00:09	0.5	02:59	0.1
	07:27	1.0	10:04	0.9	13:09	1.3	16:50	0.2
10	19:54	0.9	23:13	0.6				
					01:26	0.8	04:13	0.1
11	08:21	1.2	11:12	1.0	14:05	1.4	17:35	0.2
	20:43	1.1						
12			00:00	0.7	02:24	1.1	05:17	0.1
	09:08	1.4	12:14	1.0	14:55	1.5	18:17	0.3
13	21:29	1.4						
			00:45	0.9	03:15	1.4	06:15	0.2
14	09:53	1.6	13:13	1.1	15:42	1.6	18:57	0.3
	22:15	1.6						
15			01:30	1.1	04:02	1.8	07:11	0.3
	10:39	1.8	14:07	1.1	16:27	1.7	19:34	0.3
16	23:01	1.9						
			02:17	1.3	04:48	2.1	08:05	0.4
17	11:25	1.9	14:57	1.1	17:10	1.7	20:10	0.3
	23:48	2.1						
18			03:04	1.5	05:35	2.3	09:00	0.5
	12:12	1.8	15:45	1.1	17:52	1.6	20:47	0.3
19	00:35	2.2	03:51	1.5	06:23	2.4	09:56	0.5
	13:00	1.7	16:29	1.0	18:35	1.4	21:24	0.3
20								
	01:22	2.2	04:40	1.5	07:13	2.3	10:53	0.5
21	13:48	1.5	17:11	0.9	19:18	1.2	22:03	0.3
22	02:09	2.1	05:31	1.4	08:05	2.1	11:53	0.5
	14:37	1.2	17:49	0.7	20:04	1.0	22:47	0.2
23	03:00	1.9	06:26	1.3	09:01	1.9	12:56	0.4
	15:27	0.9	18:22	0.6	20:57	0.9	23:39	0.2
24	03:59	1.7	07:29	1.2	10:01	1.6	14:03	0.3
	16:24	0.7	18:57	0.4	21:59	0.7		
25							00:45	0.1
	05:16	1.5	08:43	1.0	11:07	1.3	15:12	0.2
26	17:33	0.6	19:44	0.4	23:15	0.7		
							02:10	0.2
27	06:50	1.3	10:03	1.0	12:18	1.2	16:13	0.2
	18:49	0.6	20:47	0.6				
28							00:36	0.9
	08:07	1.3	11:16	0.9	13:23	1.1	17:03	0.2
29	19:59	0.8	22:59	0.7				
							01:47	1.1
30	09:01	1.4	12:16	0.9	14:20	1.2	17:44	0.2
	20:54	1.1						
31					00:04	0.9	02:43	1.3
	09:44	1.4	13:04	0.9	15:09	1.2	18:22	0.3
32	21:38	1.4						
							06:05	0.3
33	09:44	1.4	13:04	0.9	15:09	1.2	18:22	0.3
	21:38	1.4						
34			00:56	1.0	03:30	1.5	06:53	0.4
	10:19	1.5	13:44	0.9	15:52	1.3	18:58	0.3
35	22:19	1.6						
			01:41	1.1	04:11	1.7	07:34	0.4
36	10:52	1.5	14:19	1.0	16:31	1.3	19:32	0.4
	22:58	1.7						
37			02:20	1.2	04:48	1.7	08:11	0.4
	11:24	1.5	14:52	0.9	17:06	1.3	20:04	0.4
38	23:36	1.8						
			02:55	1.2	05:24	1.8	08:48	0.4
39	11:55	1.5	15:21	0.9	17:38	1.2	20:31	0.4
	00:12	1.8	03:29	1.2	05:58	1.8	09:26	0.5
40	12:25	1.4	15:48	0.8	18:06	1.1	20:55	0.4
	00:47	1.8	04:02	1.2	06:32	1.8	10:05	0.5
41	12:55	1.2	16:12	0.7	18:32	1.0	21:19	0.3
	01:20	1.7	04:35	1.2	07:07	1.7	10:47	0.5
42	13:27	1.1	16:36	0.6	19:00	0.9	21:44	0.3

August 2010

Pos.: 61°12' N, 6°30' V

Dag	EFB		EFK		VFB		VFK	
	tt:mm	rák	tt:mm	rák	tt:mm	rák	tt:mm	rák
01	01:52	1.6	05:09	1.1	07:44	1.6	11:31	0.4
	14:03	0.9	17:03	0.5	19:33	0.8	22:16	0.3
02	02:25	1.4	05:44	1.0	08:25	1.4	12:18	0.4
	14:46	0.8	17:39	0.4	20:14	0.7	22:57	0.2
03	03:03	1.2	06:21	0.9	09:10	1.3	13:11	0.3
	15:37	0.6	18:27	0.4	21:07	0.6	23:51	0.2
04	03:53	1.0	07:05	0.8	10:05	1.1	14:12	0.2
	16:44	0.6	19:29	0.3	22:15	0.5		
05							01:04	0.1
	05:06	0.9	08:10	0.8	11:17	1.0	15:21	0.2
06	18:11	0.6	20:55	0.4	23:40	0.6		
							02:36	0.1
07	06:59	0.9	09:49	0.8	12:40	1.1	16:25	0.2
	19:32	0.8	22:33	0.6				
08					01:04	0.8	04:02	0.1
	08:12	1.1	11:09	0.9	13:47	1.2	17:17	0.2
09	20:32	1.0	23:32	0.8				
	09:01	1.4	12:13	1.0	14:41	1.3	17:59	0.3
10	21:20	1.4			02:07	1.2	05:13	0.2
	09:45	1.6	13:09	1.1	15:28	1.5	18:35	0.3
11	22:04	1.8			03:00	1.6	06:13	0.2
			01:11	1.3	03:48	2.1	07:07	0.4
12	10:27	1.8	13:57	1.1	16:10	1.6	19:10	0.3
	22:46	2.1						
13			01:59	1.5	04:34	2.4	07:59	0.5
	11:09	1.9	14:41	1.1	16:52	1.6	19:45	0.3
14	23:28	2.4			02:46	1.6	05:20	0.5
	11:52	1.9	15:21	1.1	17:32	1.6	20:21	0.3
15	00:11	2.5	03:34	1.6	06:05	2.6	09:39	0.6
	12:35	1.7	15:58	1.1	18:13	1.6	21:00	0.3
16	00:56	2.4	04:23	1.6	06:52	2.4	10:29	0.5
	13:18	1.5	16:31	0.9	18:55	1.4	21:42	0.3
17	01:43	2.3	05:15	1.4	07:40	2.1	11:20	0.4
	14:02	1.2	16:59	0.8	19:40	1.2	22:29	0.3

Dag	EFB		EFK		VFB		VFK	
	tt:mm	rák	tt:mm	rák	tt:mm	rák	tt:mm	rák
16	02:34	2.0	06:12	1.3	08:30	1.7	12:14	0.3
	14:51	0.9	17:28	0.6	20:32	1.0	23:24	0.3
17	03:36	1.6	07:17	1.1	09:24	1.3	13:15	0.2
	15:47	0.6	18:07	0.4	21:34	0.9		
18							00:35	0.2
	05:04	1.3	08:39	0.9	10:29	1.0	14:26	0.1
19	17:00	0.5	18:55	0.4	22:53	0.8		
							02:08	0.2
20	06:51	1.1	10:11	0.8	11:48	0.8	15:38	0.1
	18:36	0.6	19:42	0.5				
21					00:20	0.9	03:48	0.3
	08:05	1.1	11:22	0.7	13:05	0.8	16:37	0.1
22	20:21	0.8	22:44	0.7				
					01:33	1.1	05:04	0.3
23	08:54	1.2	12:12	0.7	14:06	0.9	17:24	0.2
	20:56	1.1	23:45	0.8				
24					02:27	1.3	05:57	0.4
	09:28	1.2	12:52	0.8	14:54	1.0	18:03	0.3
25	21:30	1.3						
	09:56	1.3	13:25	0.9	15:34	1.2	18:37	0.3
26	22:03	1.5			00:33	1.0	03:11	0.4
					03:11	1.5	06:38	0.4
27	10:24	1.4	13:54	0.9	16:08	1.3	19:07	0.4
	22:37	1.7			01:14	1.1	03:48	0.4
28					03:48	1.6	07:13	0.4
	10:52	1.5	14:21	0.9	16:39	1.3	19:34	0.4
29	23:10	1.8			01:50	1.1	04:23	0.4
			02:23	1.2	04:56	1.9	08:19	0.5
30	11:21	1.5	14:46	0.9	17:06	1.3	19:58	0.4
	23:41	1.9						
31					02:55	1.3	05:28	0.5
	11:51	1.5	15:11	0.9	17:33	1.2	20:21	0.4
32	00:12	1.9	03:28	1.3	06:00	1.9	09:29	0.5
	12:22	1.4	15:35	0.8	18:01	1.2	20:48	0.4
33	00:42	1.9	04:00	1.3	06:33	1.9	10:06	0.5
	12:55	1.3	16:02	0.7	18:33	1.1	21:19	0.4
34	01:13	1.7	04:34	1.2	07:08	1.7	10:43	0.4
	13:32	1.1	16:32	0.7	19:09	1.1	21:56	0.3
35	01:46	1.5	05:09	1.1	07:46	1.5	11:25	0.3
	14:15	1.0	17:07	0.6	19:51	0.9	22:41	0.3

September 2010

Pos.: 61°12' N, 6°30' V

Dag	EFB		EFK		VFB		VFK	
	tt:mm	råk	tt:mm	råk	tt:mm	råk	tt:mm	råk
01	02:27	1.3	05:49	0.9	08:30	1.2	12:15	0.3
	15:06	0.8	17:52	0.5	20:45	0.8	23:38	0.2
02	03:19	1.0	06:41	0.8	09:25	1.0	13:22	0.2
	16:10	0.6	18:46	0.4	21:55	0.7		
03							00:56	0.1
	04:37	0.9	08:08	0.7	10:41	0.9	14:43	0.2
04	17:41	0.6	19:50	0.5	23:20	0.8		
							02:33	0.1
05	06:49	0.9	09:52	0.7	12:16	0.9	15:57	0.2
	19:26	0.8	21:55	0.7				
06					00:45	1.0	04:02	0.2
	08:02	1.1	11:11	0.8	13:29	1.0	16:50	0.2
07	20:26	1.1	23:04	0.9				
					01:51	1.4	05:11	0.3
08	08:48	1.4	12:10	0.9	14:22	1.2	17:30	0.2
	21:06	1.5	23:58	1.2				
09					02:44	1.9	06:08	0.4
	09:28	1.6	12:59	1.0	15:07	1.4	18:06	0.2
10	21:44	1.9						
			00:48	1.4	03:32	2.3	06:59	0.5
11	10:08	1.8	13:40	1.1	15:49	1.5	18:41	0.3
	22:23	2.3						
12			01:38	1.5	04:17	2.5	07:46	0.5
	10:47	1.9	14:17	1.1	16:30	1.7	19:19	0.3
13	23:04	2.5						
			02:27	1.6	05:01	2.6	08:31	0.5
14	11:26	1.8	14:51	1.2	17:10	1.7	19:59	0.4
	23:47	2.6						
15			03:17	1.6	05:44	2.5	09:15	0.5
	12:07	1.7	15:23	1.1	17:52	1.7	20:42	0.4
16	00:33	2.5	04:08	1.5	06:28	2.2	09:58	0.4
	12:48	1.5	15:54	1.0	18:34	1.6	21:29	0.4
17	01:21	2.2	05:01	1.4	07:13	1.8	10:42	0.3
	13:33	1.2	16:26	0.8	19:20	1.4	22:20	0.4
18	02:15	1.8	05:59	1.2	07:59	1.4	11:28	0.2
	14:22	1.0	17:02	0.7	20:12	1.2	23:20	0.3
19	03:22	1.4	07:07	0.9	08:49	1.0	12:22	0.1
	15:21	0.7	17:46	0.6	21:15	1.0		

Dag	EFB		EFK		VFB		VFK	
	tt:mm	råk	tt:mm	råk	tt:mm	råk	tt:mm	råk
16							00:35	0.3
	04:57	1.0	08:38	0.7	09:46	0.7	13:30	0.0
17	16:37	0.6	18:37	0.5	22:34	0.9		
							02:10	0.3
18	06:36	0.9	10:23	0.6	11:12	0.6	14:52	0.1
	18:35	0.6	20:34	0.6				
19					00:00	0.9	03:45	0.3
	07:49	0.9	11:20	0.6	12:42	0.6	16:03	0.1
20	20:10	0.8	22:16	0.7				
					01:10	1.1	04:53	0.3
21	08:33	1.0	12:02	0.6	13:45	0.7	16:55	0.2
	20:40	1.0	23:14	0.8				
22					02:03	1.3	05:38	0.4
	08:59	1.1	12:36	0.7	14:30	0.9	17:35	0.3
23	21:09	1.3						
			00:00	0.9	02:44	1.4	06:14	0.4
24	09:24	1.2	13:03	0.8	15:06	1.0	18:07	0.3
	21:39	1.5						
25			00:38	1.0	03:21	1.6	06:46	0.5
	09:52	1.4	13:26	0.9	15:37	1.1	18:34	0.3
26	22:09	1.7						
			01:12	1.1	03:54	1.8	07:17	0.5
27	10:20	1.5	13:48	0.9	16:05	1.2	18:58	0.3
	22:39	1.8						
28			01:46	1.2	04:25	1.9	07:48	0.5
	10:49	1.5	14:13	0.9	16:33	1.3	19:23	0.4
29	23:08	1.9						
			02:19	1.3	04:56	2.0	08:20	0.5
30	11:19	1.5	14:39	0.9	17:03	1.3	19:51	0.4
	23:37	1.9						
31			02:53	1.3	05:28	2.0	08:53	0.5
	11:52	1.5	15:07	0.9	17:35	1.4	20:23	0.4
32	00:08	1.9	03:28	1.3	06:01	1.9	09:26	0.4
	12:28	1.4	15:38	0.9	18:11	1.4	21:01	0.4
33	00:41	1.7	04:05	1.2	06:37	1.7	10:02	0.4
	13:08	1.3	16:11	0.8	18:50	1.3	21:44	0.4
34	01:20	1.5	04:45	1.1	07:17	1.5	10:43	0.3
	13:53	1.1	16:49	0.7	19:36	1.2	22:35	0.3
35	02:06	1.3	05:35	0.9	08:03	1.2	11:34	0.2
	14:46	0.9	17:33	0.7	20:32	1.0	23:40	0.2



November 2010

Pos.: 61°12' N, 6°30' V

Dag	EFB		EFK		VFB		VFK	
	tt:mm	rák	tt:mm	rák	tt:mm	rák	tt:mm	rák
01							01:36	0.4
	04:55	1.0	08:35	0.7	10:02	0.7	13:14	0.1
	17:21	1.2	19:59	1.0	23:02	1.6		
02							02:50	0.4
	06:04	1.1	09:46	0.7	11:15	0.8	14:14	0.1
	18:20	1.4	21:07	1.1				
03					00:07	1.9	03:51	0.5
	06:54	1.2	10:31	0.8	12:18	0.9	15:08	0.1
	19:09	1.7	22:09	1.2				
04					01:02	2.1	04:42	0.5
	07:36	1.4	11:07	0.9	13:12	1.2	16:00	0.2
	19:55	2.0	23:07	1.3				
05					01:51	2.2	05:26	0.4
	08:16	1.5	11:39	1.0	14:02	1.4	16:52	0.2
	20:40	2.2						
06			00:04	1.4	02:36	2.2	06:06	0.4
	08:56	1.6	12:15	1.1	14:48	1.6	17:44	0.3
	21:27	2.3						
07			00:58	1.4	03:20	2.1	06:43	0.3
	09:37	1.7	12:54	1.1	15:34	1.8	18:36	0.4
	22:15	2.2						
08			01:51	1.4	04:03	1.9	07:19	0.3
	10:20	1.7	13:39	1.2	16:19	1.8	19:28	0.4
	23:05	2.0						
09			02:42	1.3	04:45	1.7	07:56	0.3
	11:06	1.6	14:27	1.1	17:04	1.8	20:21	0.4
	23:55	1.7						
10			03:32	1.1	05:28	1.4	08:33	0.3
	11:56	1.5	15:15	1.1	17:51	1.6	21:15	0.4
11	00:48	1.4	04:22	0.9	06:12	1.1	09:13	0.2
	12:49	1.3	16:02	1.0	18:40	1.4	22:13	0.4
12	01:42	1.1	05:14	0.7	06:57	0.8	09:56	0.2
	13:45	1.2	16:51	0.9	19:35	1.3	23:17	0.3
13	02:40	0.8	06:13	0.5	07:45	0.6	10:44	0.1
	14:45	1.0	17:41	0.8	20:37	1.1		
14							00:27	0.3
	03:42	0.7	07:36	0.4	07:59	0.4	11:41	0.1
	15:53	0.9	18:37	0.7	21:43	1.1		
15							01:40	0.3
	04:46	0.6	—	—	—	—	12:45	0.1
	17:12	0.9	19:38	0.7	22:48	1.1		
16							02:45	0.4
	05:43	0.7	—	—	—	—	13:48	0.1
	18:17	0.9	20:37	0.8	23:45	1.2		
17							03:33	0.4
	06:30	0.8	—	—	—	—	14:42	0.2
	19:00	1.1	21:26	0.9				
18					00:31	1.3	04:09	0.4
	07:09	0.9	11:12	0.6	12:27	0.7	15:27	0.2
	19:34	1.2	22:10	0.9				
19					01:11	1.5	04:41	0.4
	07:44	1.1	11:19	0.7	13:15	0.8	16:07	0.2
	20:05	1.4	22:51	1.0				
20					01:47	1.6	05:12	0.4
	08:17	1.3	11:45	0.8	13:57	1.0	16:46	0.2
	20:36	1.5	23:32	1.1				
21					02:22	1.7	05:44	0.4
	08:51	1.4	12:16	0.9	14:37	1.2	17:27	0.3
	21:08	1.6						
22			00:15	1.2	02:58	1.8	06:17	0.3
	09:28	1.6	12:51	1.0	15:16	1.4	18:09	0.3
	21:44	1.7						
23			01:00	1.2	03:36	1.8	06:52	0.3
	10:07	1.7	13:28	1.0	15:56	1.6	18:55	0.3
	22:24	1.8						
24			01:48	1.2	04:16	1.7	07:29	0.3
	10:51	1.7	14:09	1.1	16:39	1.7	19:45	0.3
	23:08	1.7						
25			02:37	1.1	04:59	1.6	08:08	0.3
	11:39	1.7	14:54	1.2	17:25	1.8	20:39	0.4
	23:56	1.6						
26			03:30	1.0	05:44	1.4	08:50	0.3
	12:32	1.6	15:41	1.2	18:15	1.8	21:41	0.4
27	00:51	1.4	04:27	0.9	06:32	1.1	09:34	0.3
	13:28	1.5	16:32	1.1	19:12	1.7	22:50	0.4
28	01:53	1.2	05:29	0.7	07:24	0.9	10:21	0.2
	14:27	1.4	17:27	1.1	20:15	1.7		
29							00:05	0.4
	03:02	1.0	06:36	0.6	08:20	0.7	11:14	0.1
	15:28	1.4	18:28	1.1	21:24	1.7		
30							01:22	0.4
	04:13	0.9	07:47	0.6	09:21	0.7	12:15	0.0
	16:33	1.4	19:35	1.1	22:34	1.8		

Desember 2010

Pos.: 61°12' N, 6°30' V

Dag	EFB		EFK		VFB		VFK	
	tt:mm	rák	tt:mm	rák	tt:mm	rák	tt:mm	rák
01							02:33	0.4
	05:20	0.9	08:53	0.6	10:33	0.7	13:22	0.0
	17:42	1.5	20:45	1.1	23:40	1.8		
02							03:33	0.4
	06:18	1.0	09:43	0.7	11:45	0.8	14:31	0.1
	18:44	1.7	21:52	1.2				
03					00:38	1.9	04:23	0.4
	07:07	1.1	10:25	0.8	12:48	1.1	15:38	0.2
	19:40	1.9	22:56	1.2				
04					01:30	1.9	05:06	0.3
	07:52	1.3	11:06	0.9	13:43	1.4	16:41	0.3
	20:31	2.0	23:55	1.3				
05					02:17	1.8	05:44	0.3
	08:37	1.4	11:53	1.0	14:34	1.6	17:39	0.3
	21:20	2.0						
06			00:50	1.3	03:02	1.7	06:19	0.3
	09:21	1.6	12:43	1.1	15:21	1.8	18:34	0.4
	22:08	1.9						
07			01:40	1.2	03:46	1.6	06:55	0.3
	10:07	1.7	13:33	1.2	16:06	1.9	19:25	0.4
	22:54	1.8						
08			02:26	1.1	04:28	1.5	07:32	0.3
	10:54	1.7	14:21	1.2	16:50	1.8	20:15	0.4
	23:39	1.6						
09			03:09	1.0	05:10	1.3	08:09	0.3
	11:42	1.7	15:06	1.1	17:34	1.7	21:03	0.4
10	00:22	1.4	03:51	0.8	05:52	1.1	08:47	0.3
	12:31	1.6	15:48	1.1	18:19	1.6	21:53	0.4
11	01:03	1.1	04:31	0.7	06:32	0.9	09:23	0.2
	13:18	1.4	16:29	1.0	19:06	1.4	22:46	0.4
12	01:46	0.9	05:09	0.5	07:09	0.6	09:57	0.2
	14:07	1.2	17:11	0.9	19:55	1.3	23:45	0.4
13	02:31	0.7	05:46	0.4	07:43	0.5	10:32	0.2
	14:58	1.1	17:54	0.8	20:49	1.2		
14							00:48	0.4
	03:23	0.6	06:23	0.3	08:15	0.4	11:14	0.1
	15:58	1.0	18:43	0.8	21:48	1.1		
15							01:52	0.4
	04:26	0.5	07:07	0.4	08:51	0.4	12:10	0.1
	17:07	0.9	19:36	0.8	22:48	1.1		

Dag	EFB		EFK		VFB		VFK	
	tt:mm	rák	tt:mm	rák	tt:mm	rák	tt:mm	rák
16							02:46	0.4
	05:31	0.6	08:18	0.4	09:29	0.5	13:17	0.1
	18:10	0.9	20:30	0.8	23:42	1.2		
17							03:29	0.3
	06:25	0.7	10:00	0.5	11:08	0.5	14:26	0.1
	18:58	1.0	21:23	0.9				
18					00:30	1.3	04:05	0.3
	07:10	0.9	10:37	0.6	12:36	0.7	15:26	0.2
	19:36	1.2	22:14	0.9				
19					01:14	1.4	04:41	0.3
	07:49	1.1	11:14	0.7	13:29	0.9	16:19	0.2
	20:12	1.3	23:06	1.0				
20					01:56	1.5	05:17	0.3
	08:29	1.3	11:51	0.8	14:15	1.2	17:09	0.2
	20:49	1.5	23:57	1.1				
21					02:37	1.6	05:54	0.3
	09:10	1.5	12:31	1.0	14:58	1.5	17:58	0.2
	21:29	1.7						
22			00:48	1.1	03:20	1.7	06:32	0.3
	09:53	1.7	13:14	1.1	15:41	1.8	18:49	0.3
	22:13	1.8						
23			01:39	1.1	04:02	1.7	07:09	0.4
	10:39	1.8	13:58	1.3	16:26	2.0	19:42	0.4
	22:59	1.8						
24			02:29	1.1	04:46	1.6	07:47	0.4
	11:28	1.9	14:44	1.4	17:13	2.1	20:37	0.4
	23:48	1.7						
25			03:19	1.0	05:29	1.4	08:26	0.3
	12:17	1.9	15:31	1.4	18:03	2.1	21:36	0.5
26	00:39	1.5	04:08	0.9	06:14	1.2	09:05	0.3
	13:07	1.9	16:20	1.4	18:56	2.1	22:39	0.5
27	01:33	1.3	04:58	0.8	07:01	1.0	09:47	0.2
	13:57	1.8	17:12	1.3	19:54	2.0	23:47	0.5
28	02:29	1.1	05:47	0.6	07:52	0.8	10:34	0.1
	14:51	1.7	18:10	1.2	20:56	1.8		
29							00:57	0.4
	03:29	0.8	06:34	0.5	08:50	0.7	11:32	0.1
	15:56	1.6	19:17	1.1	22:02	1.7		
30							02:08	0.4
	04:35	0.7	07:23	0.5	10:00	0.7	12:45	0.1
	17:15	1.5	20:32	1.1	23:11	1.5		
31							03:11	0.3
	05:42	0.7	08:26	0.6	11:18	0.8	14:08	0.1
	18:33	1.5	21:46	1.1				