

Franz Josef Land: 2011 Calendar

Images from the Joint Russia-USA 2010 Hayes Island Expedition: Photos by Skip Walker







Helicopter departure from Amderma and landing aboard the ship Mikael Somov, 28 Jul 2010.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
December 2010 S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	February 2011 S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	28	29	30	31	1 ! " #$%&" ' (New Year)
2	3	4	5	6	7 (") ' *+, #' - . / +, " #' (Christmas)	8
9	10	11	12 0*12. 34", 1/ 53 6. " 57. 3, 7. $ (" +-/ %+5" % 8 *' *. 39/ /	13 0*12. " +-/ %+5" %6*: 3, /	14 ; , 3. $%! " #$%<" '	15
16	17	18	19	20	21 0*12/ 1) *1*. 1$=#' %+5	22
23	24	25 0*12. " +-/ %+5" <" +, 7 *1: *+, #3	26	27 0*12 #' / 1+5" %+>3#$ (" +-/ /. 0*12 +1?, /? 4>" 53' $ <". " ' 3 @*1/ 1< 3' 3 (1944 <" ')	28	29
30	31	1				

January 2011



Franz Josef Land. Whale and ice caps.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30	31	1	2 0*12#'/1+5"%+>3#$ (" +#/. 0*12. 3A<: "B3 +" #*, +5/B/ #'%+53B/ 1*B*95" -C3D/+, +5/= #'%+5#; , 3>/1<:3' +5"% 4/, #* (1943 <*')"	3	4	5
6	7	8 0*12. " +#/%+5"%1375/	9	10 0*12'/6>*"B3,/:*+5"<* .34", 1/53	11	12
13	14	15	16	17	18	19
20	21	22	23 0*12A3E/, 1/53 F, *:*+, #3 (Defender of the Fatherland Day)	24	25	26
27	28	1	2	3	4	5

January 2011

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

March 2011

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

February 2011







Landing at Krenkel Station, 7 Aug 2010.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
27	28	1	2	3	4	5
6	7	8 G*) ' 713. " ' 1$%) *1+5/ %' *12 (International Women's Day)	9	10	11 0*12. 34", 1/53". <31" # 13. 5" 5" 1,. " >?	12
13 0*12. 34", 1/5" # <*" ' *A/ / 53. ," <; 3C/ /	14	15	16	17	18	19
20 0*12. 34", 1/5" # ," . <" #>/, 4$," #' <" " 4+>7) / #31/? 13+#*>*1/? /) / >/ E 1" - 5" BB713>21" <" =" A%+; #3	21	22	23	24	25 0*12. 34", 1/53 57>2, 7. $	26
27 0*12 #17, . *11/ = #' %+5 G/ 1/ +, *. +, #3 #17, . *11/ =' *> (" +#/ %+5" %8 *' *. 39/ /	28	29 0*12 +6*9/ 3>/ +, 3 H. / ' / : *+5" %+>7) 4$	30	31	1	2

February 2011

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28					

April 2011

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

March 2011









Mikael Somov.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
27	28	29	30	31	1	2 0*12*' / 1*1/? 13. " ' " #
3 0*12 <*" >" <3	4	5	6	7	8 0*12 +", . 7 1/5" # # *11$=5" B/ ++3. / 3, " #	9
10 0*12 #' %+5 6. ", / #' # A 7D1" % " 4" . " 1$	11	12 0*12 5" +B" 13#, / 5/	13	14	15 0*12 +6*9/ 3>/ +, 3 6" . 3' / "1>*5, . " 11" % 4" . 24*	16
17	18	19	20	21	22	23
24	25	26 0*12 63B?, / 6" <4D/ = #. 3' / 39/ " 11$=3#3. / ?= / 53, 3+, . " C3=	27	28	29	30 0*12 6") 3. 1" %" =, 31$

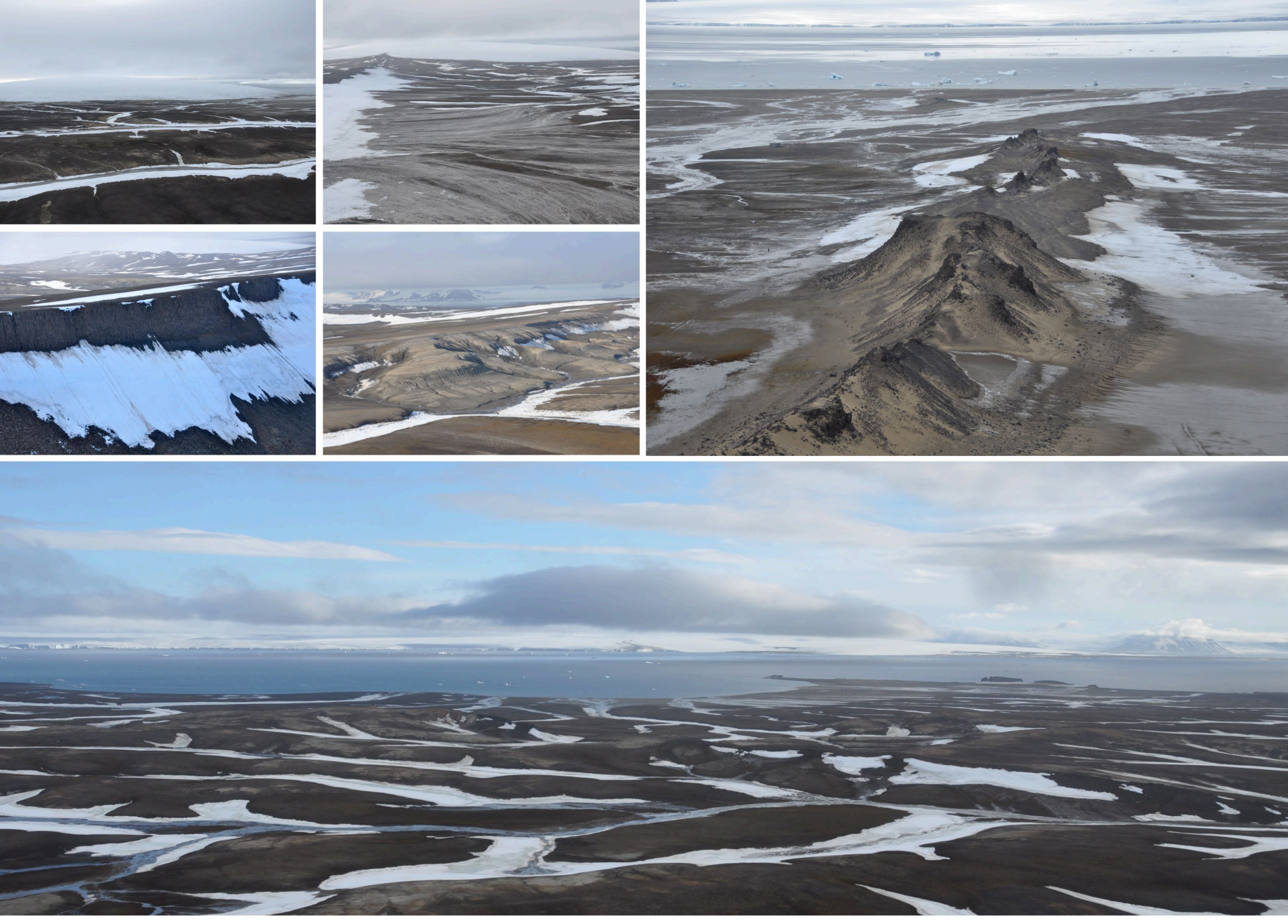
March 2011

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

May 2011

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

April 2011



Aerial reconnaissance of Hayes Island, 8 August 2010. Upper left and middle: Small ice cap in northern part of the island. Upper right: “First Dike”, one of several volcanic dikes that bisect the island. Most of the island is composed of sandy marine terraces and sandstones with snow-filled drainage channels.

May 2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1 J . 3A 1/ 5 K*+1$ / L. 7' 3 (Labour Day)	2	3	4	5	6	7 0*12 . 3' / " , 6. 3A 1/ 5 . 34" , 1/ 5" # #+*= " , . 3+>*%+#! A(
8	9 0*12 J " 4*' $ (Victory Day)	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24 0*12 +>3#! 1+5" % 6/ +2B*1 1" +; / / 57>2, 7. $	25	26 0*12 . " +1/ %+5" <* 6. *' 6. / 1/ B3, *>2+; #3	27 F 4E*. " +1/ %+5/ %0*12 4/ 4>/ " , *5	28 0*12 6" < 31/ : 1/ 53
29 0*12 =/ B/ 53	30	31 0*12 (" +1/ %+5" % M #' 53, 7. $	1	2	3	4

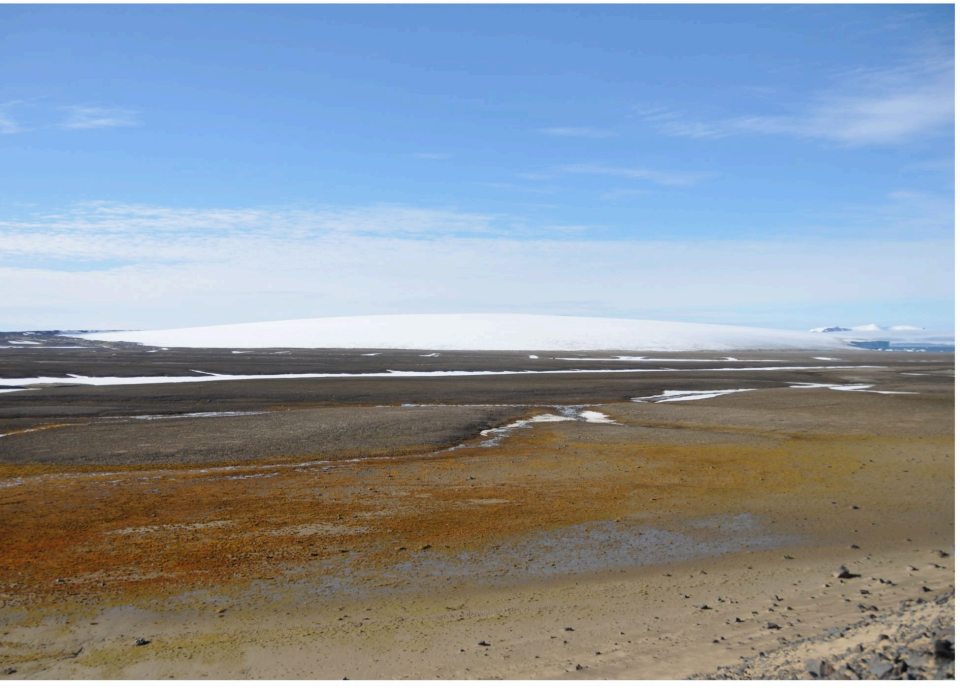
April 2011

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

June 2011

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		









First ground reconnaissance, 8 August 2010. Upper left and middle middle left and right: “First Dike”. Upper right: Marina Leibman cossing red moss carpet with ice cap in background. Lower Left: View of ice cap from “First Dike”.. Lower right: Basalt cliffs east coast.

June 2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
29	30	31	1	2	3	4
5 0*1215" >' <3	6 J 7D5/ 1+5/ %' *12 (" +#/ /	7	8 0*12 +" 9/ 3>21" <' . 34", 1/ 53	9	10	11
12 0*12. 34", 1/ 5" # , *5+; / >21" %/ >'*<5" % 6. " B$D>*11" +; / 0*12 (" +#/ / (Russia Day)	13	14 0*12. 34", 1/ 53 B/ <; 39/ " 11" % +>7) 4$	15	16	17	18
19 0*12 B*' / 9/ 1+5" <' . 34", 1/ 53	20	21	22 0*12 63B?, / / +5" . 4/	23	24	25 0*12 / A' 4. *, 3, *>? / . 39/ " 13>/ A3, " . 3
26	27 0*12 B" >' ' *) /	28	29	30	1	2

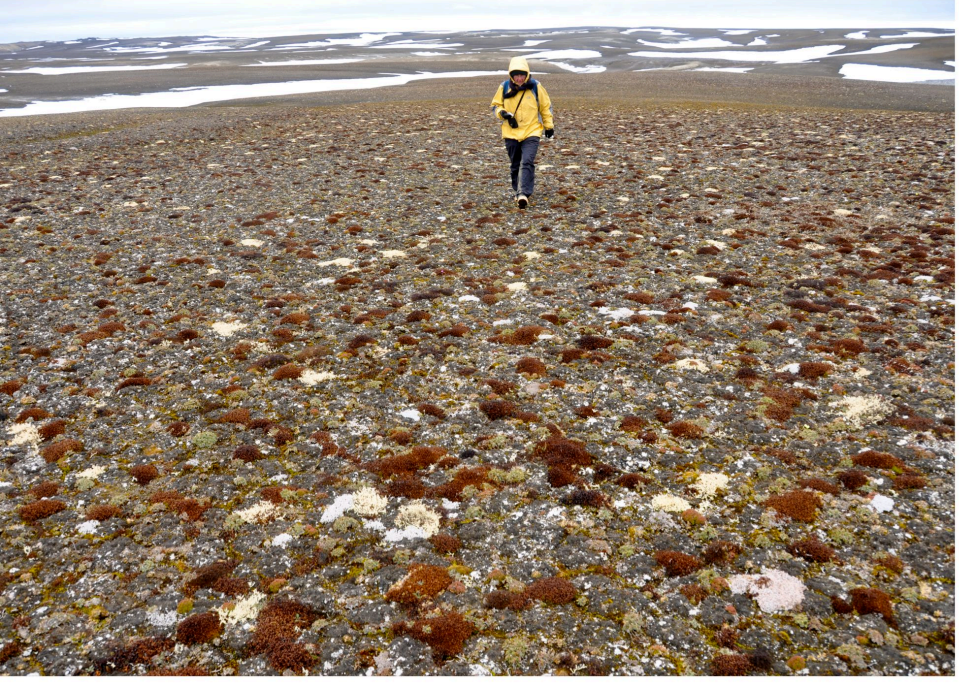
May 2011

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

July 2011

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						







Second ground reconnaissance, 8 August 2010. The “Coral Reef”, a lichen-rich tundra that occurred on some gentle mainly south-facing slopes.

July 2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
June 2011 S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	August 2011 S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	28	29	30	1	2
3 0*12. 34", 1/5" # B". +5" <" / . *: 1" <" C>", 3	4	5	6	7	8	9
10 0*12 #' / 1+5" %+>3#$ 0*12. " ++/ %+5" %6" : , $	11	12	13	14	15	16
17 0*12 B*, 3>>7. <3	18	19	20	21	22	23
24	25	26	27	28	29	30
31 0*12 K" *11" -G" . +5" <" 8 >", 3	1	2				















Second ground reconnaissance. Top: Badlands at the foot of the ice cap. Lower left: “Yellow brick road” composed of small non-sorted polygons. Lower right photos: Concretions were common in the sandy deposits. Most were the size of large marbles, but some were up to 30 cm in diameter. Many had fossils inside them.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
31	1 0*12 L$>3 K" ". 7) *11$=; /> (" ++/ %+5" %8 *' *. 39//	2 0*12 K" A 7D1" - ' *+31, 1$=# %+5	3	4	5	6 0*12 N*>*A" ' " . ") 1$= # %+5
7 0*12) *>*A" ' " . ") 1/53	8	9	10	11	12 0*12 K" *11" - # A 7D1$=+/ >	13
14 0*12 +, . " / , *>?	15	16	17	18	19	20
21 0*12 K" A 7D1" <* 8 >", 3 (" +/ /	22 0*12 &" +7' 3. +, #*11" <* C>3<3 (" +/ %+5" % 8 *' *. 39//	23 0*12 # / 1+5" %+>3#$ (" +/ / . 0*12 . 3A<, " B3 +" #*, +5/ B/ # %+53B/ 1*B*95" -C3D/ +, +5/ = # %+5 #C7. +5" %4/ , #* (1943 <* ')	24	25	26	27 0*12 5/ 1"
28 0*12 D3=, *. 3	29	30	31	1	2	3

July 2011

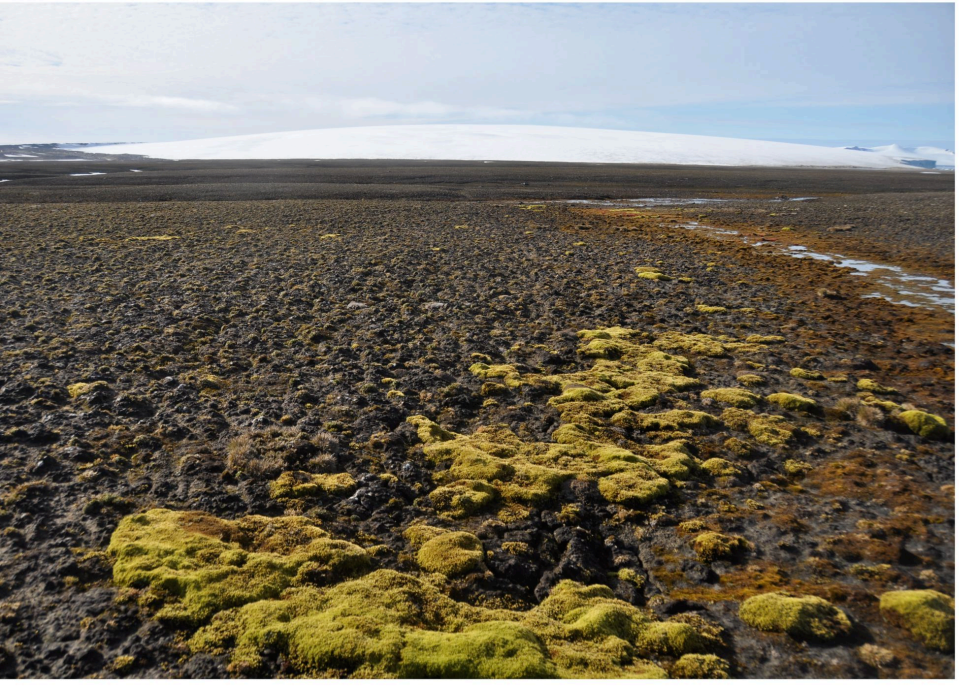
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

September 2011

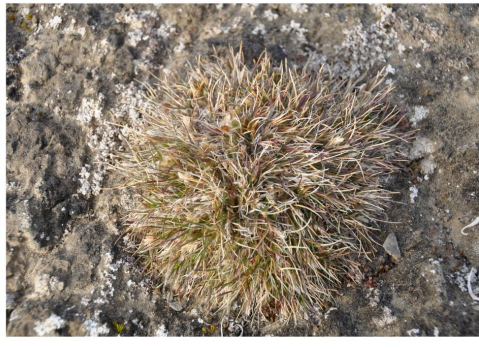
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

August 2011









Plants of Hayes Island. Top left and right: The most common vascular plant is the polar poppy *Papaver dahlianum* ssp. *polare.* Lower left: Mosses and lichens cover most surfaces. Right-hand photos: All vascular plants are very small and most have adapted cushion growth forms, including clockwise from top: *Papaver dahlianum, Oxyria digyna, Poa abbreviata, Cerastium regelii* and *Saxifraga cespitosa.*

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28	29	30	31	1 0*12A31/%	2 0*12."+#/%+5"% <#3.'//	3 0*12+#">/'3.1"+,/# 4".24*+,*..".//A3"B
4 0*12.34",1/5"# 1*C,?1"%/ <3A'#'% 6."B$D>*11"+,/ 0*12+6*9/3>/+,36" ?'*.1"B7"4*+6*:*1/H	5	6	7	8	9	10
11	12	13	14	15	16	17
18 0*12.34",1/5"#>*+3	19	20	21	22	23	24
25 0*12B3D/1"+,."/,*>?	26	27	28 0*12.34",1/53 3,"B1"% 6."B$D>*11"+,/	29	30	1

August 2011

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

October 2011

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

September 2011









Borehole team, clockwise from upper left: Bringing the corer to Site 2; Coring Site 2; logging core from Site 1; 10-m borehole at Site 1.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
September 2011 S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	November 2011 S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	27	28	29	30	1 0*12; 7=" 67, 1$=# %+5 0*12 6") />$=>+' *%
2	3	4 0*12 K" *11" - 5" +B/: *+5/ =+/ > 0*12 C +B/: *+5/ =#' %+5	5 0*12 7: /, *>?	6	7	8
9 0*12. 34", 1/ 53 +*>2+5" <" =" A'%+; #3 / 6*. *. 343, $#3HE *% 6. " B$D>*11" +, /	10	11	12	13	14	15
16 0*12. 34", 1/ 5" # ' ". ") 1" <" =" A'%+; #3	17	18	19	20 0*12 #' *11" <" +#' A'+, 3	21	22
23	24 0*12 6" '. 3A *>*1/ % +6*9/ 3>21" <" 13A13: *1/ ?	25 0*12, 3B") *11/ 53 (" ++/ %+5" %8 *' *. 39// 	26	27	28	29
30 0*12. 34", 1/ 5" # 3#; " B" 4/ >21" <" ,. 31+6". , 3 0*12 63B?, /) *. , # 6" >/, /: *+5/ = . *6. *++/ %	31	1				

October 2011







Field work at Site 2, 12 August 2010.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30	31	1	2	3	4 0*12 13. "' 1" ≮ *' / 1+, #3 (Unity Day)	5 0*12 #' *11" ≮ . 3A#*' : / 53
6	7	8	9	10 0*12 B/ ≻/ 9/ /	11	12
13 0*12 #' %+5 . 3' / 39/ " 11" % =/ B/ : *+5" %/ 4/ " ≻' ≮ : *+5" %A3E / , $	14	15	16	17	18	19
20 0*12 (35*, 1$= #' %+5 / 3. , / >>*. / /	21 0*12 . 34" , 1/ 53 13≻' ≮ #$=" . <31" # (" +1/ %+5" %8 *' *. 39/ /	22	23	24	25	26
27 0*12 B3, *. /	28	29	30	1	2	3

October 2011

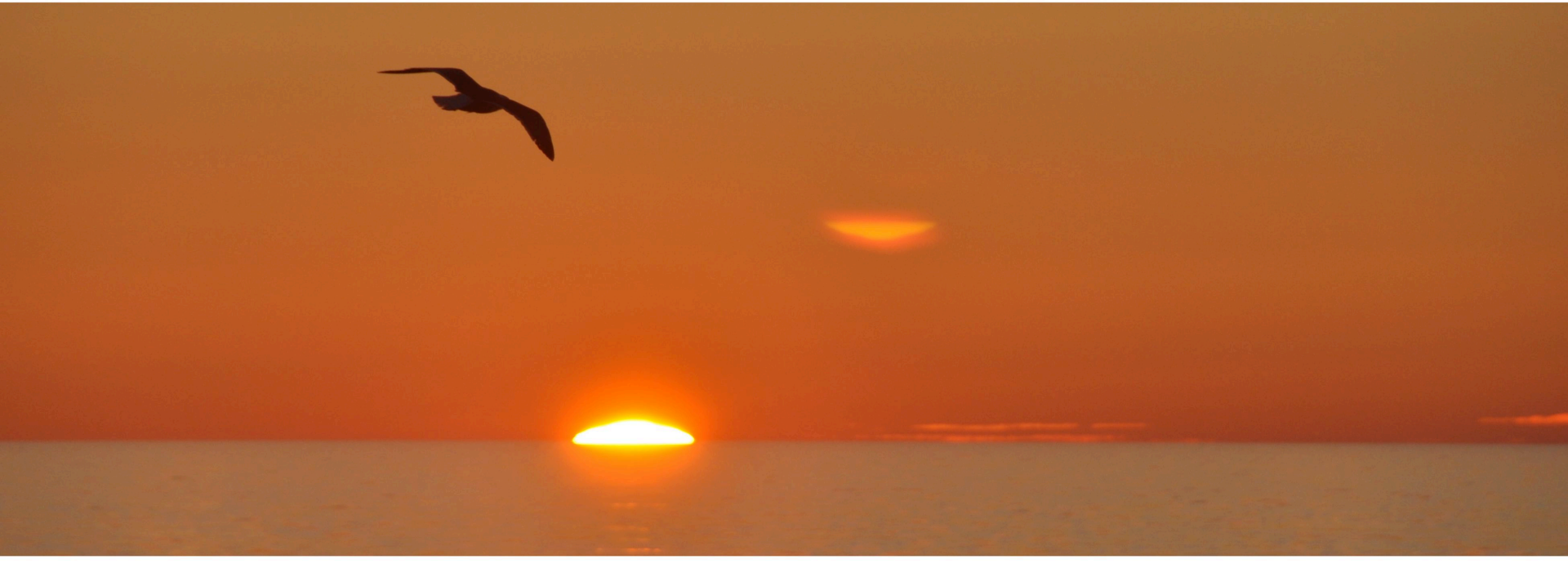
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

December 2011

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

November 2011





Departure from Krekel Station, 13 August 2010. Top: Expedition members, from left: Marina Leibman, Artem Khomutov, Andrey Abramov, Dmitri Drozdov, Elena Slagoda, JJ Frost, Pasha Orekhov, Ina Timling, Andrey Ermak, Skip Walker, Vanya Gameev, Gosha Matyshak. Bottom: Sunset with mirage.

December 2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
27	28	29	30	1	2	3 0*12H. / +; 3
4	5	6	7	8	9 0*12&*. " *#F , *: *+; #3	10
11	12 0*12O' 1+; / , 79/ / (" +#/ %15" %8 *' *. 39/ /	13	14	15	16	17 0*12 (35*, 1$=#' %15 +; . 3, *<1 : *+5" <" 13A!3: *1/ ?
18 0*1211*. <*, / 53	19	20 0*12. . 34", 1/ 53 " . <31" # 4*A' 63+H" +; / (" +#/ %15" %8 *' *. 39/ /	21	22	23	24
25	26	27	28	29	30	31

November 2011

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

January 2012

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				