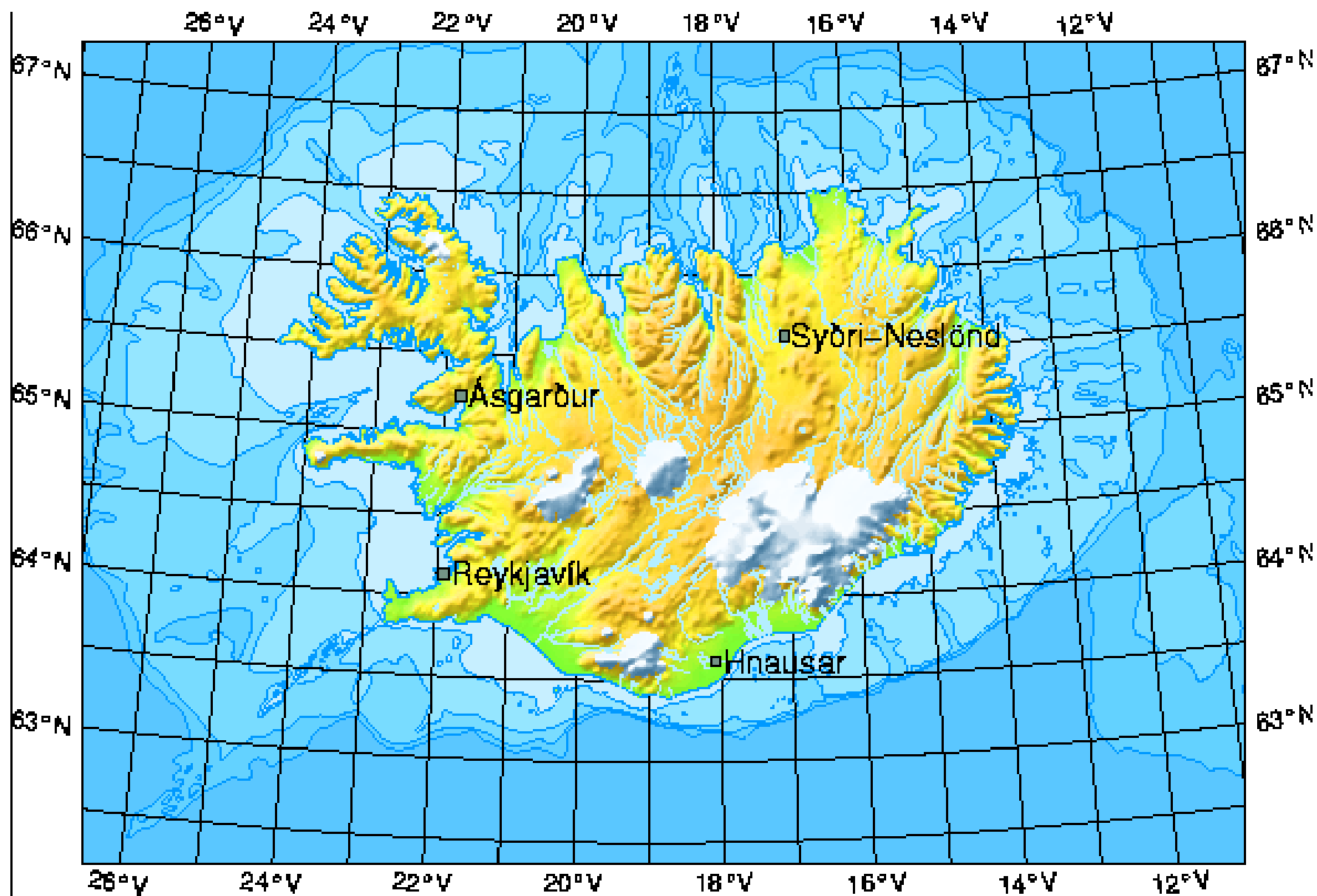


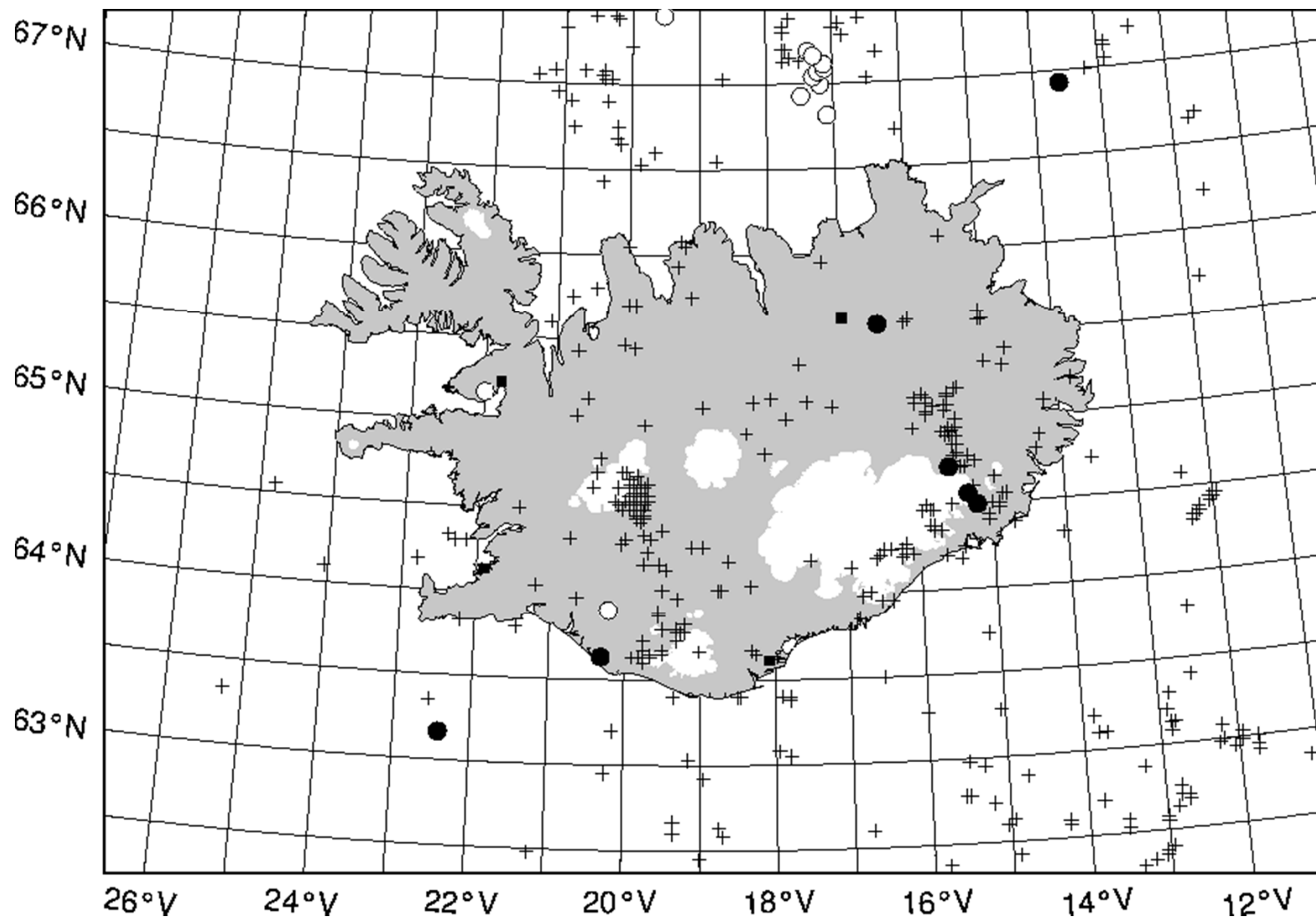
*Ársfundur samstarfsnefndar um rannsóknir á eldingum
7. maí 2004*

*Mælingar og skráning á niðurslætti
eldinga til jarðar á Íslandi
frá apríl 2003 til mars 2004*

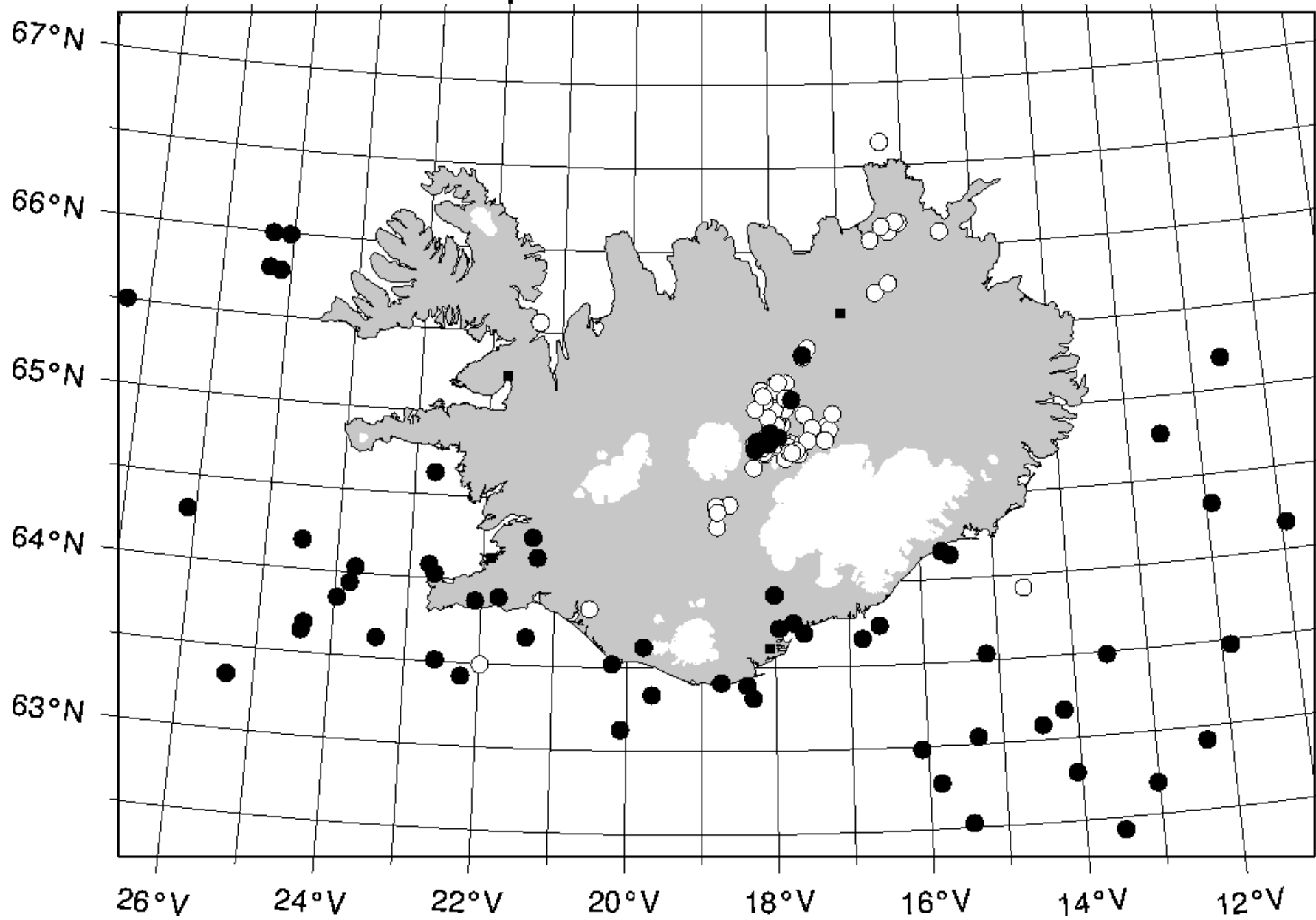
*Þórður Arason
Veðurstofu Íslands*



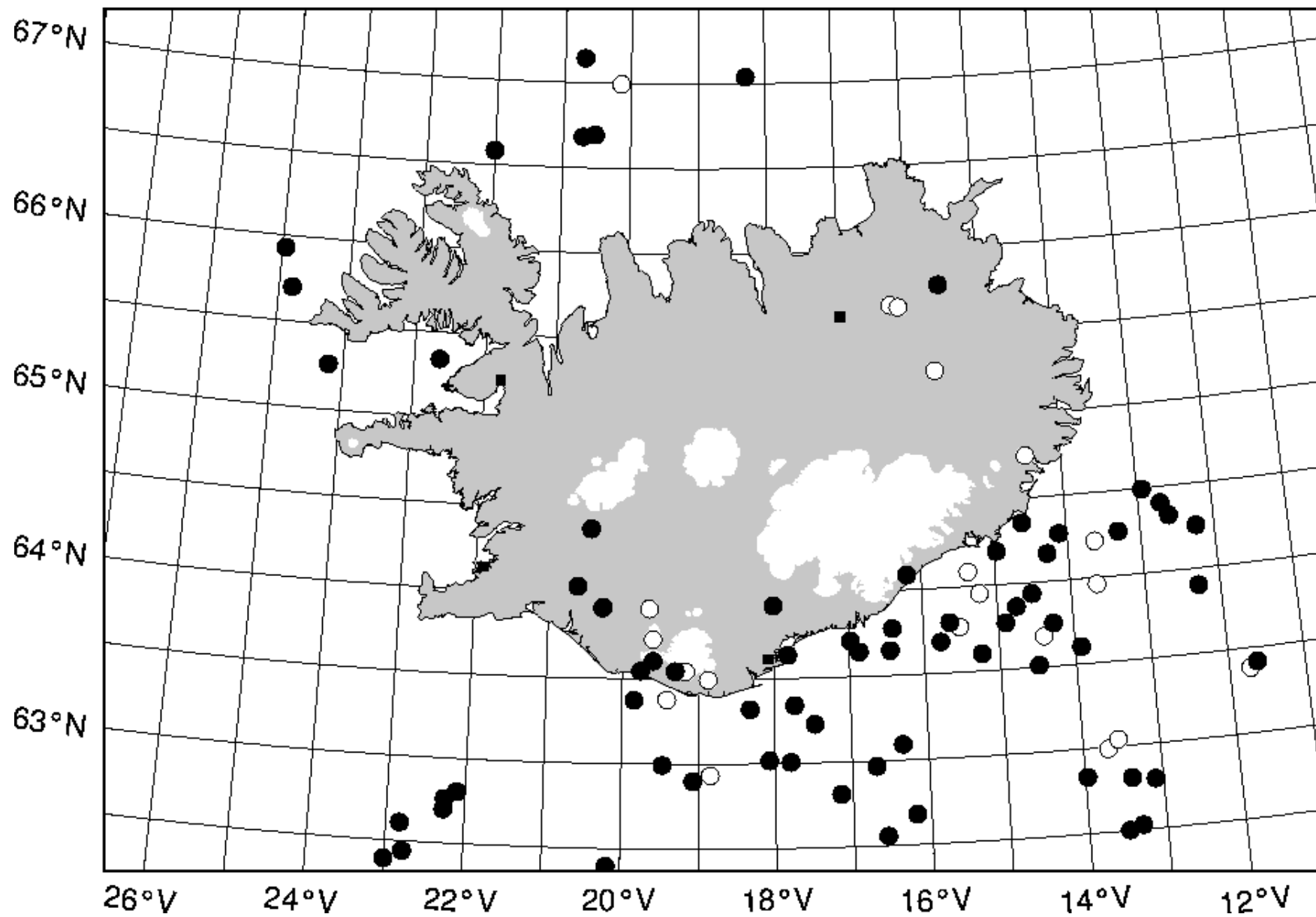
Apríl 2003 – Mars 2004



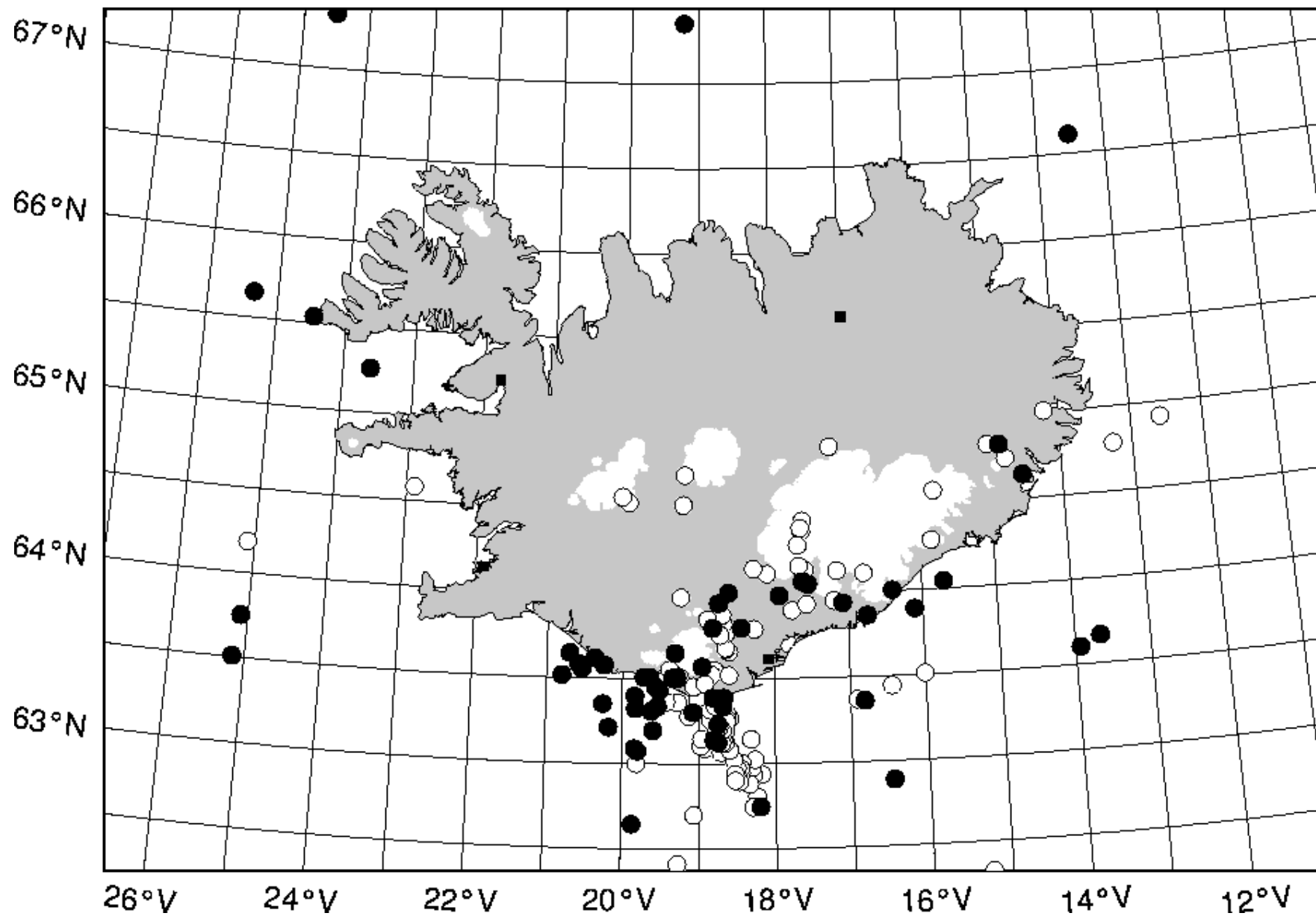
Apríl 2000 - Mars 2001



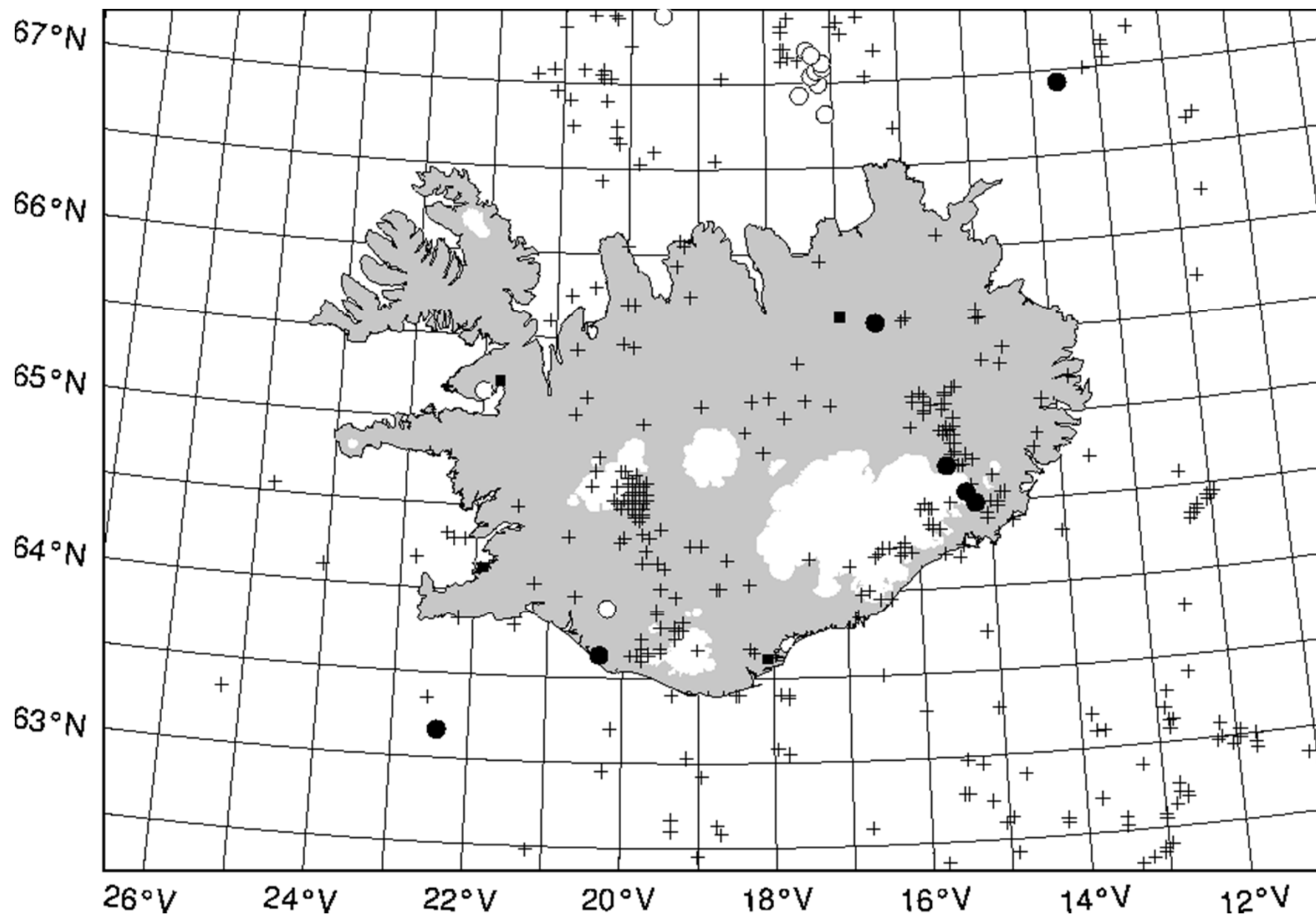
April 2001 - Mars 2002



Apríl 2002 – Mars 2003



Apríl 2003 – Mars 2004



Tafla 1. *Flokkun skeyta frá eldingamælistöðvum*

Mánuður	Fjöldi	RE	SN	ÁS	Stök	Samtíma
2003-04	1927	1837	84	6	1921	6
2003-05	567	359	196	13	557	10
2003-06	590	410	167	12	578	12
2003-07	2391	1959	377	55	2320	71
2003-08	3469	2988	441	40	3411	58
2003-09	956	634	230	92	926	30
2003-10	563	452	89	22	554	9
2003-11	679	556	105	18	670	9
2003-12	5575	5506	56	13	5564	11
2004-01	9574	9358	203	13	9560	14
2004-02	741	598	96	47	741	0
2004-03	2215	2171	26	18	2213	2
Samtals	29247	26828	2070	349	29015	232

Tafla 2. *Flokkun samtímaatburða*

Mánuður	Samtíma	Mettun	Grunnlína	Suð	Pólun	Ósamstæð	Val
2003-04	3	0	0	0	0	0	3
2003-05	5	2	0	0	0	0	3
2003-06	6	2	2	0	0	0	2
2003-07	31	24	0	0	1	1	5
2003-08	26	8	1	0	0	1	16
2003-09	15	1	1	0	0	0	13
2003-10	4	1	0	0	0	0	3
2003-11	4	1	0	0	0	1	2
2003-12	4	1	0	0	0	0	3
2004-01	7	5	0	0	2	0	0
2004-02	0	0	0	0	0	0	0
2004-03	1	1	0	0	0	0	0
Samtals	106	46	4	0	3	3	50

Tafla 3. Staðsetning eldinga

Ár	Val	Innan ramma	Óstöðugar	Innan hrings	Sjór	Land	Gos
1997 (7 mán)	198	100	8	72	45	27	-
1998	617	236	8	131	66	65	9
1999	141	88	10	39	29	10	-
2000	372	240	1	179	70	109	6
2001	576	293	1	134	110	24	-
2002	405	171	2	128	102	26	-
2003 (3 mán)	147	91	4	69	30	39	-
2003 (9 mán)	50	24	2	20	13	7	-
2004 (3 mán)	0	0	0	0	0	0	-
	(50)	(24)	(2)	(20)	(13)	(7)	
Samtals	2506	1242	36	772	465	307	15

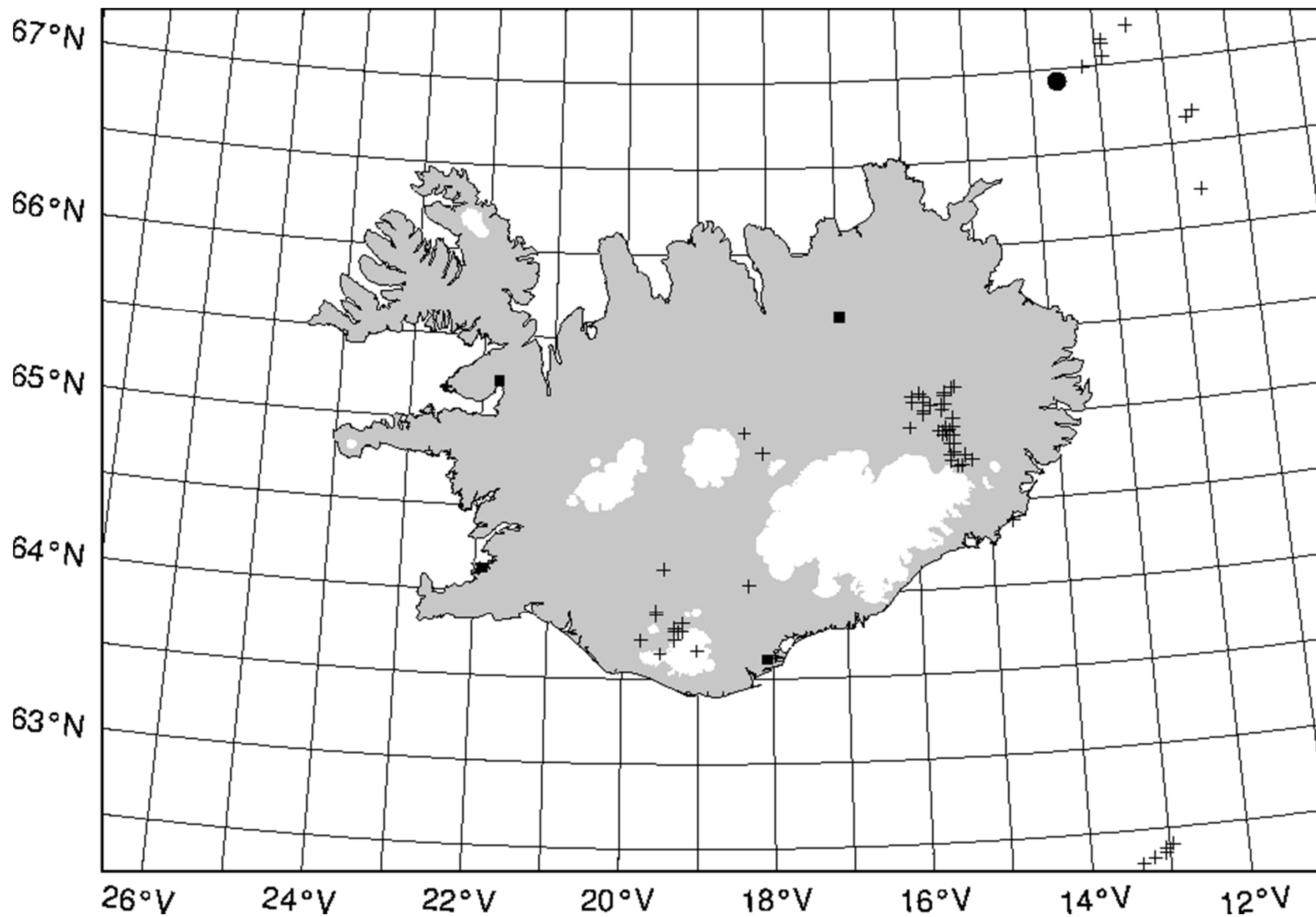
Rammi miðast við svæðið 60°-70°N og 0°-40°V. Hringur miðast við 400 km geisla frá 65°N, 19°V.

Tafla 5. *Fjöldi eldinga við Ísland eftir dögum*

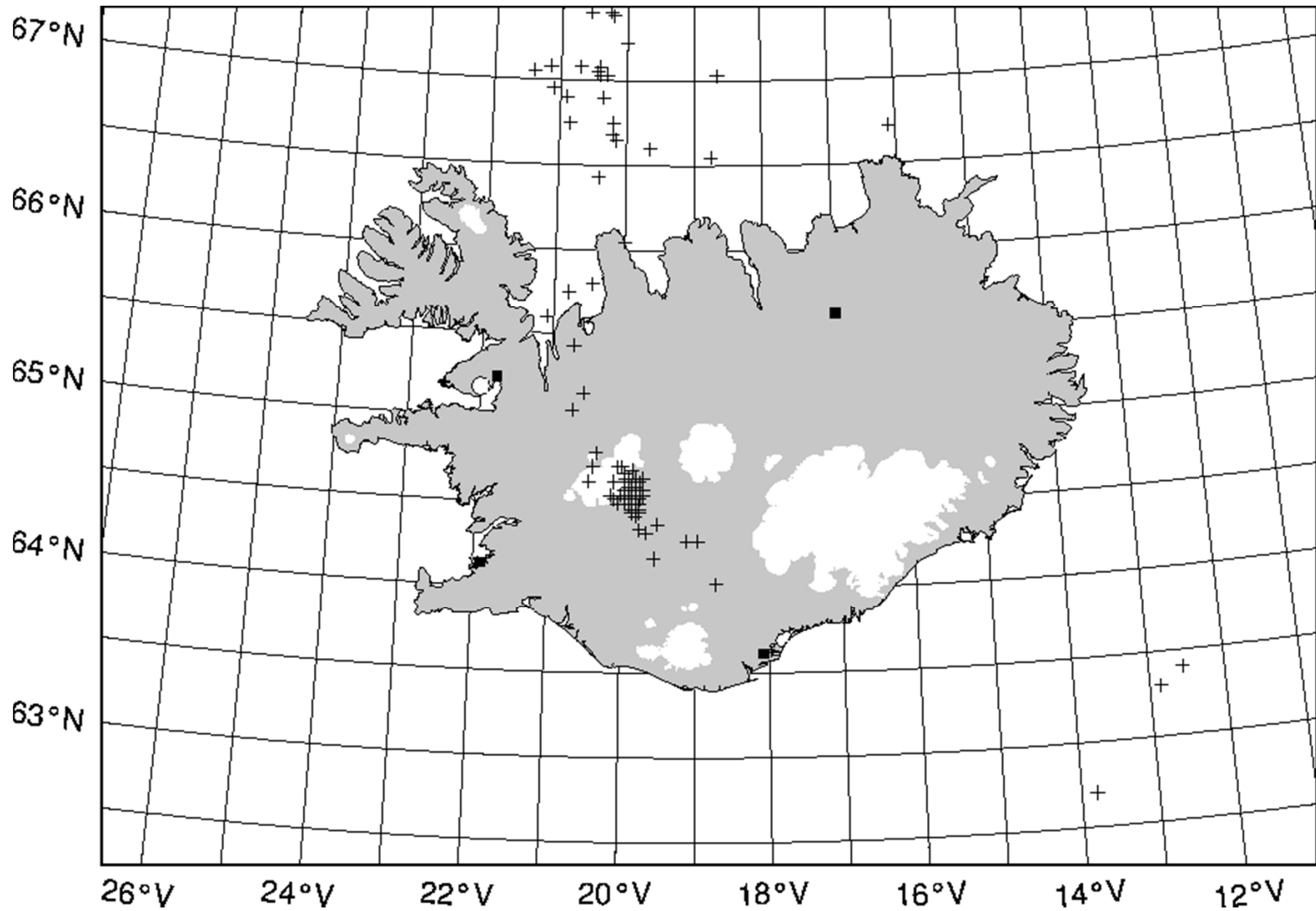
Dagsetning	LLP	ATD	Dagsetning	LLP	ATD
2003-05-07	0	1	2003-10-27	0	1
2003-05-22	1	1	2003-10-28	1	2
2003-05-26	0	1	2003-11-04	1	4
2003-06-17	0	2	2003-11-05	0	11
2003-06-18	0	3	2003-11-13	0	1
2003-06-19	0	10	2003-12-03	0	1
2003-07-13	0	1	2003-12-20	0	1
2003-07-18	0	19	2003-12-24	0	3
2003-07-19	1	73	2003-12-25	0	2
2003-07-20	0	7	2004-01-07	0	1
2003-07-26	0	15	2004-01-08	0	6
2003-07-27	1	13	2004-01-16	0	1
2003-07-28	0	17	2004-01-17	0	11
2003-07-29	0	1	2004-01-23	0	12
2003-08-02	0	1	2004-03-02	0	4
2003-08-08	0	3	2004-03-11	0	1
2003-08-09	1	172	2004-03-12	0	6
2003-08-10	11	65	2004-03-13	0	27
2003-08-12	0	1	2004-03-14	0	3
2003-09-04	3	5	2004-03-18	0	3
2003-09-14	0	1	2004-03-27	0	1
2003-09-28	0	1	Samtals	20	515

Fjöldi miðast við eldingar innan hrings með 400 km geisla frá 65°N, 19°V.

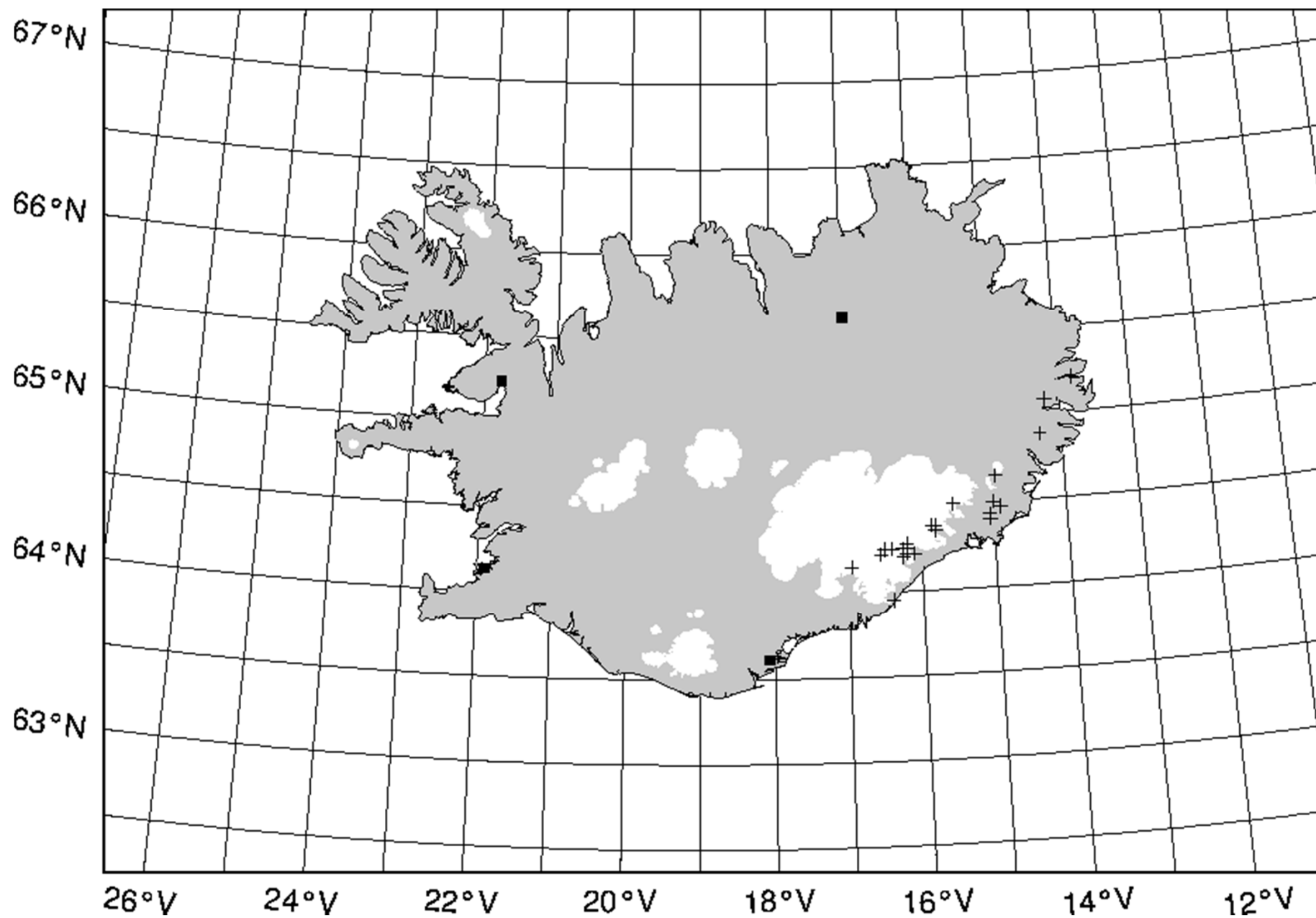
Prumaveďriď 19. júlí 2003



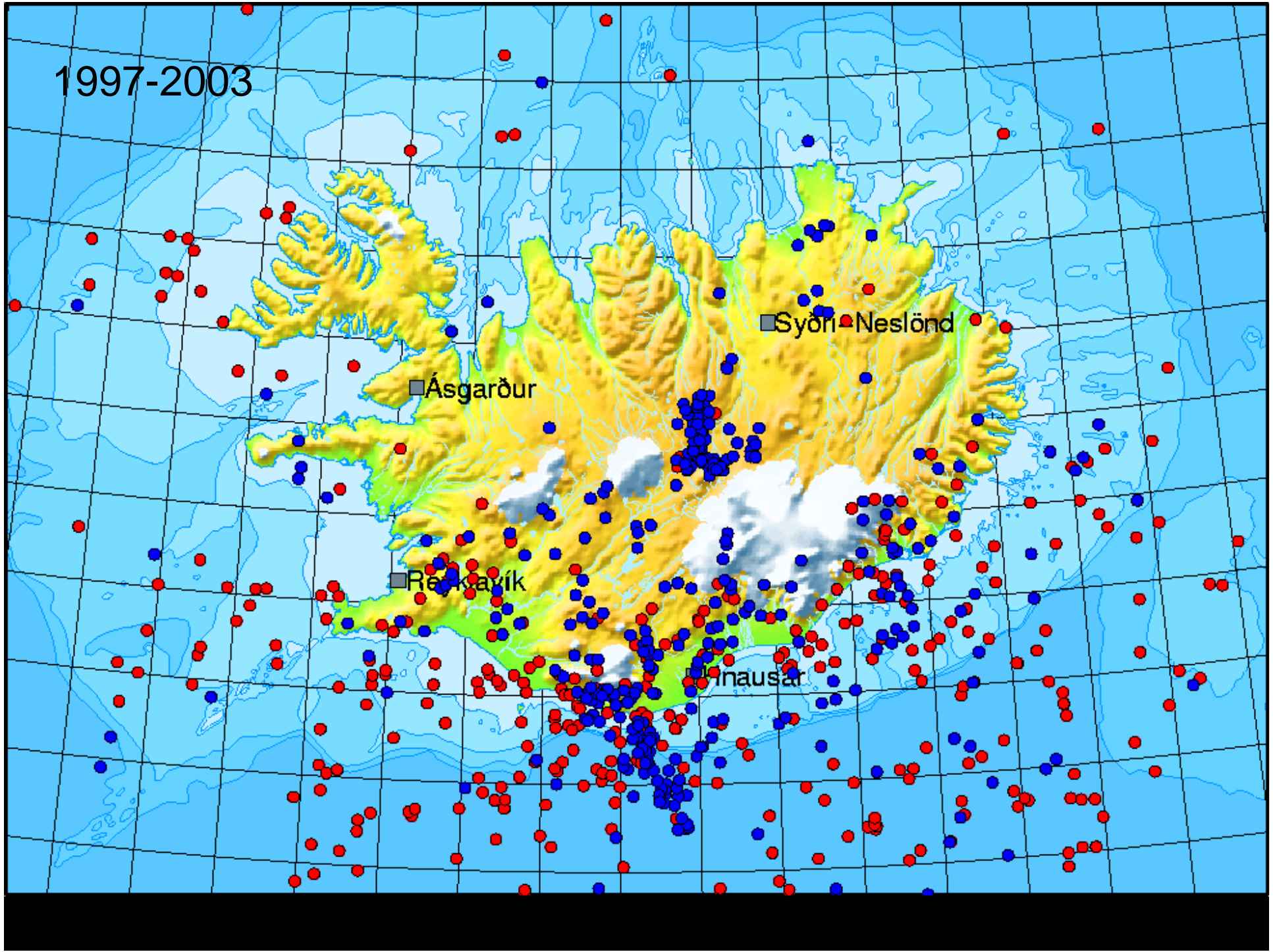
Þrumuveðrið 9. ágúst 2003



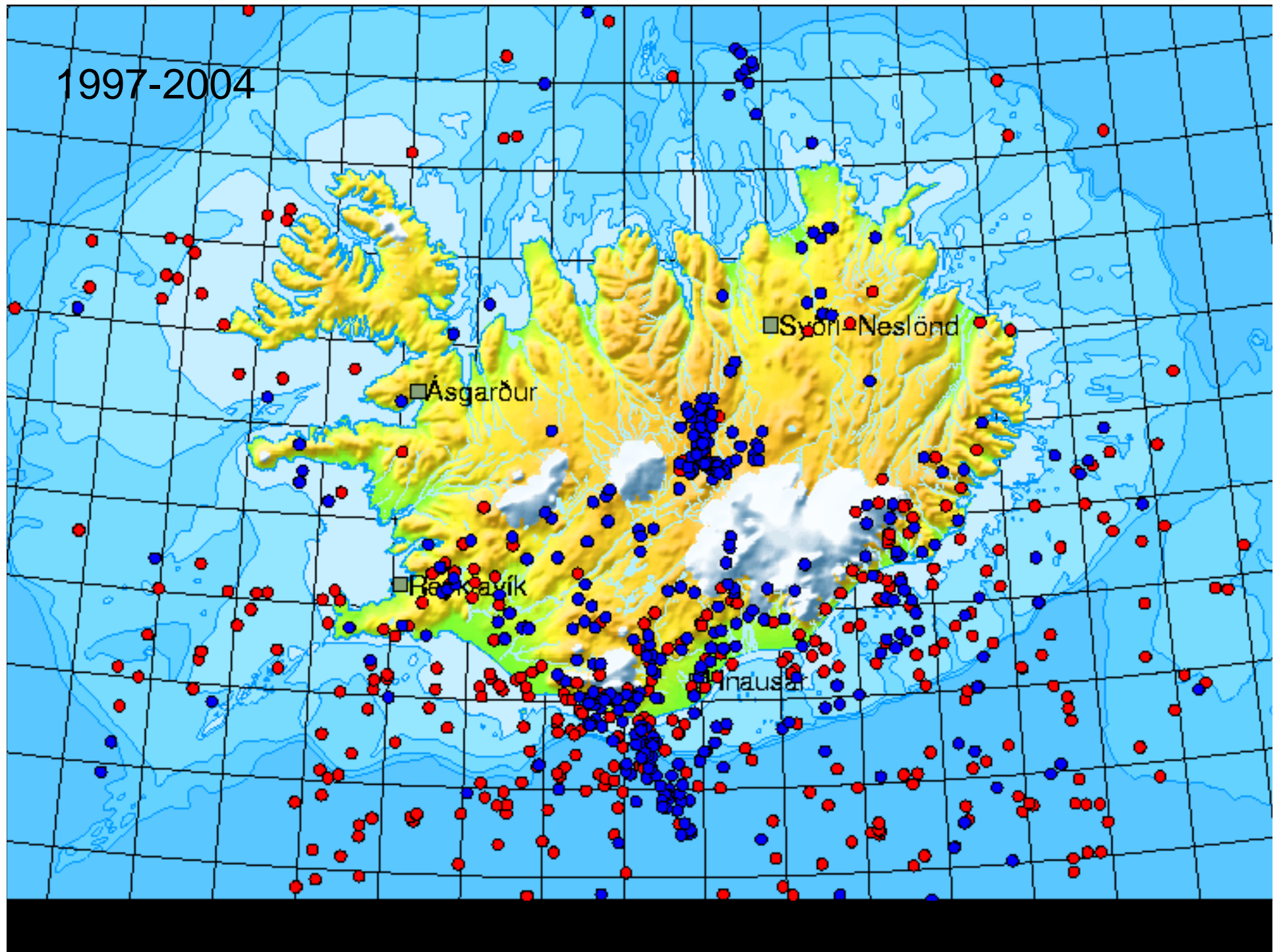
Prumuveðrið 13. mars 2004



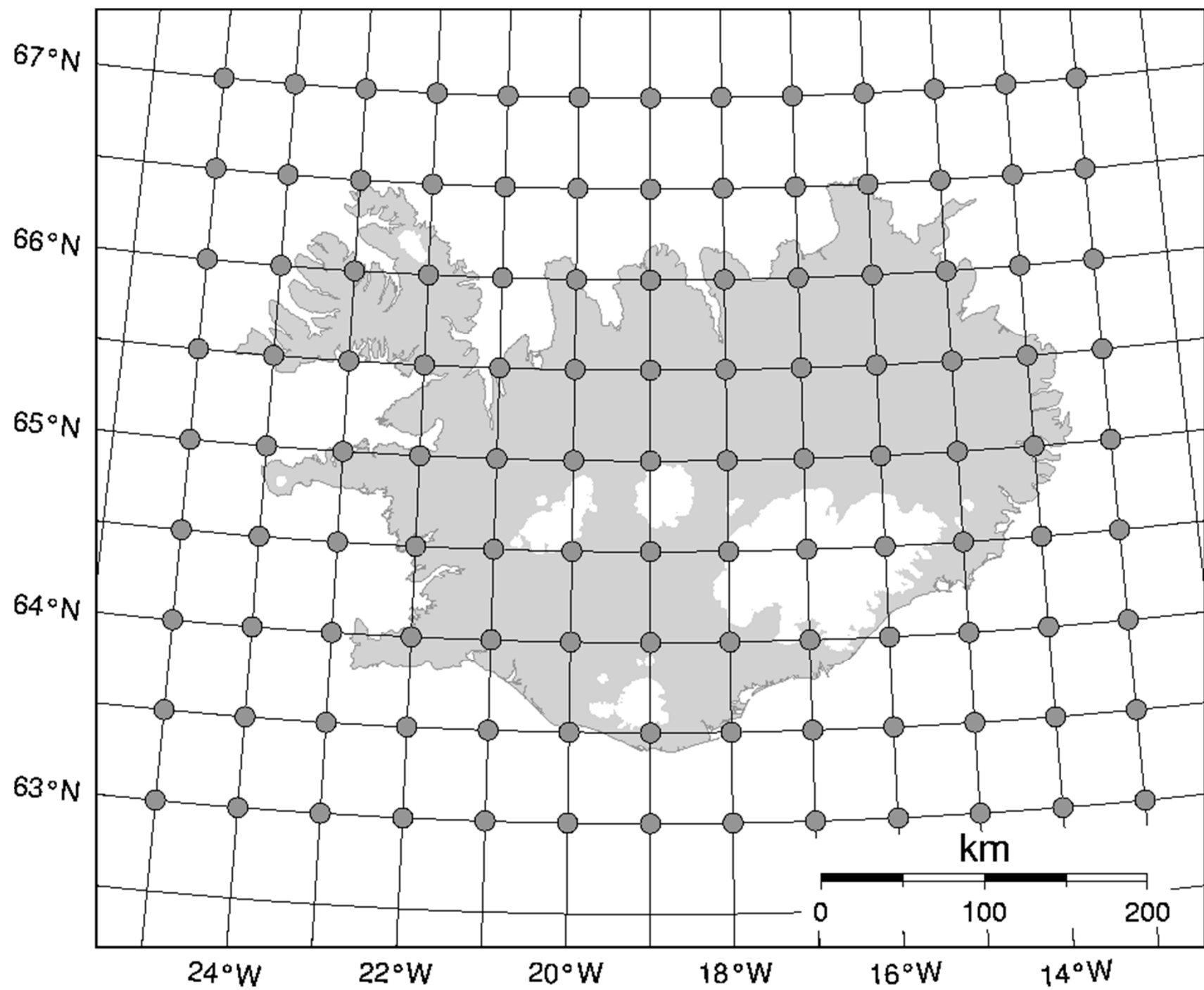
1997-2003

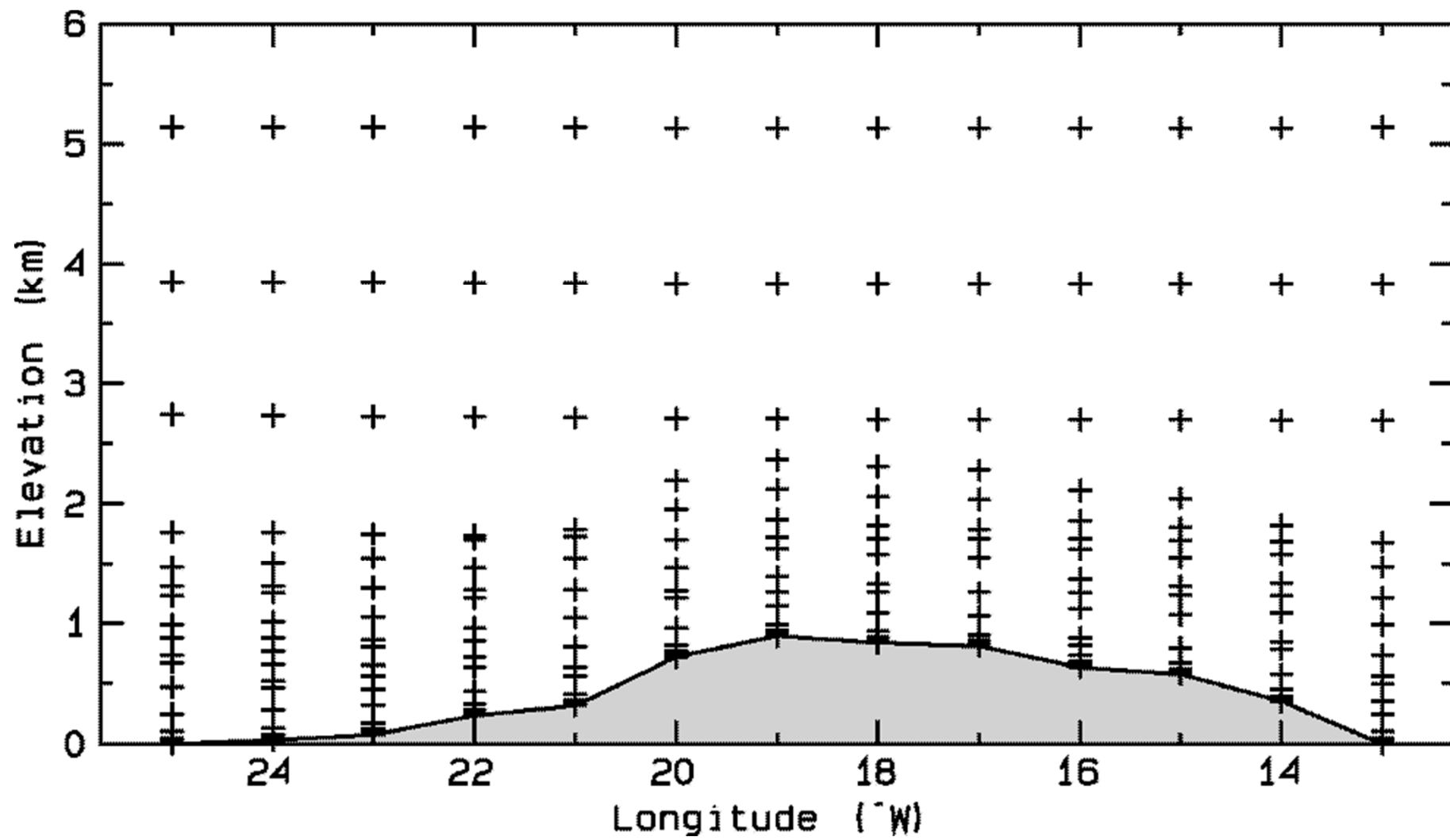


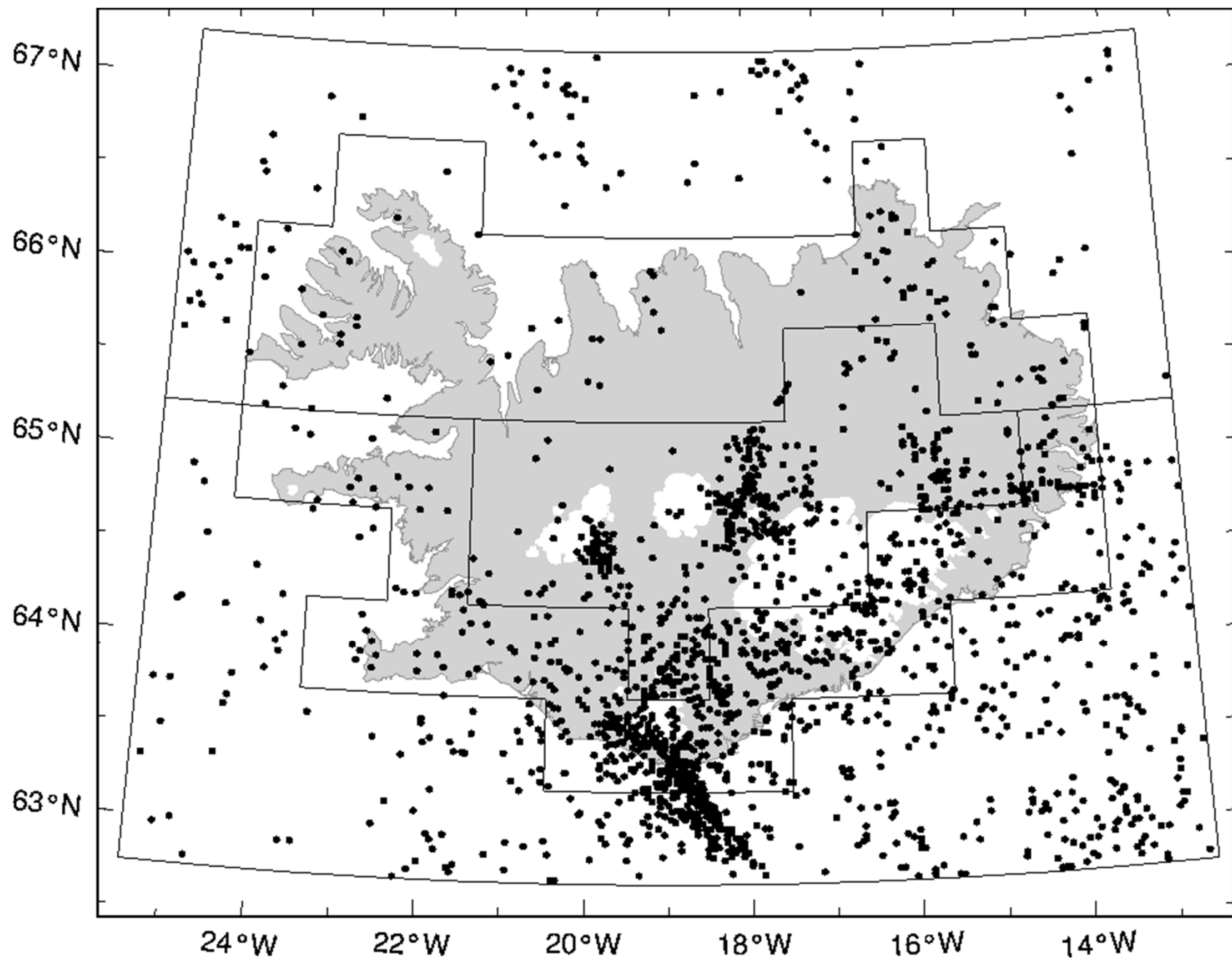
1997-2004

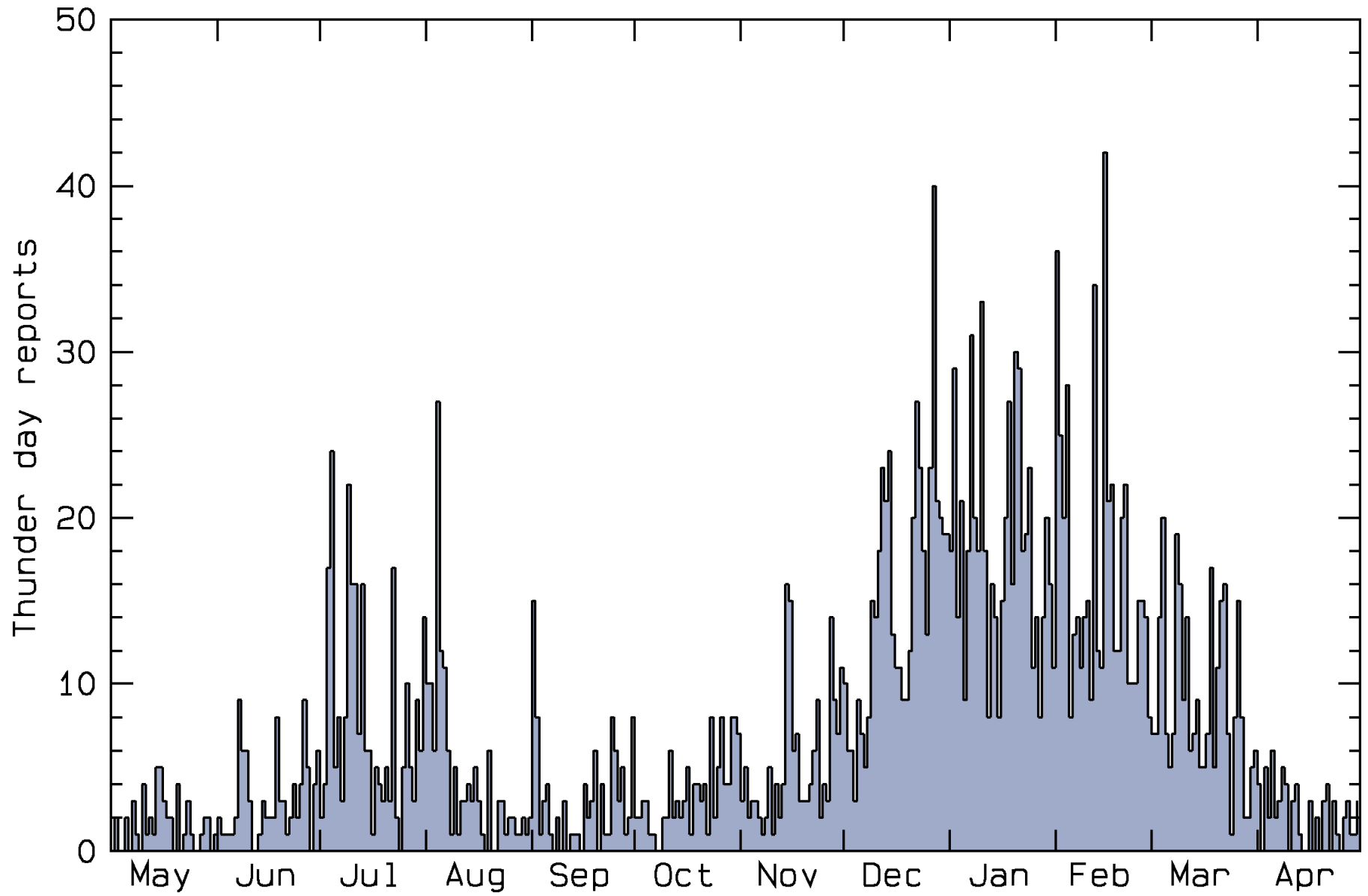


Þrumuspár









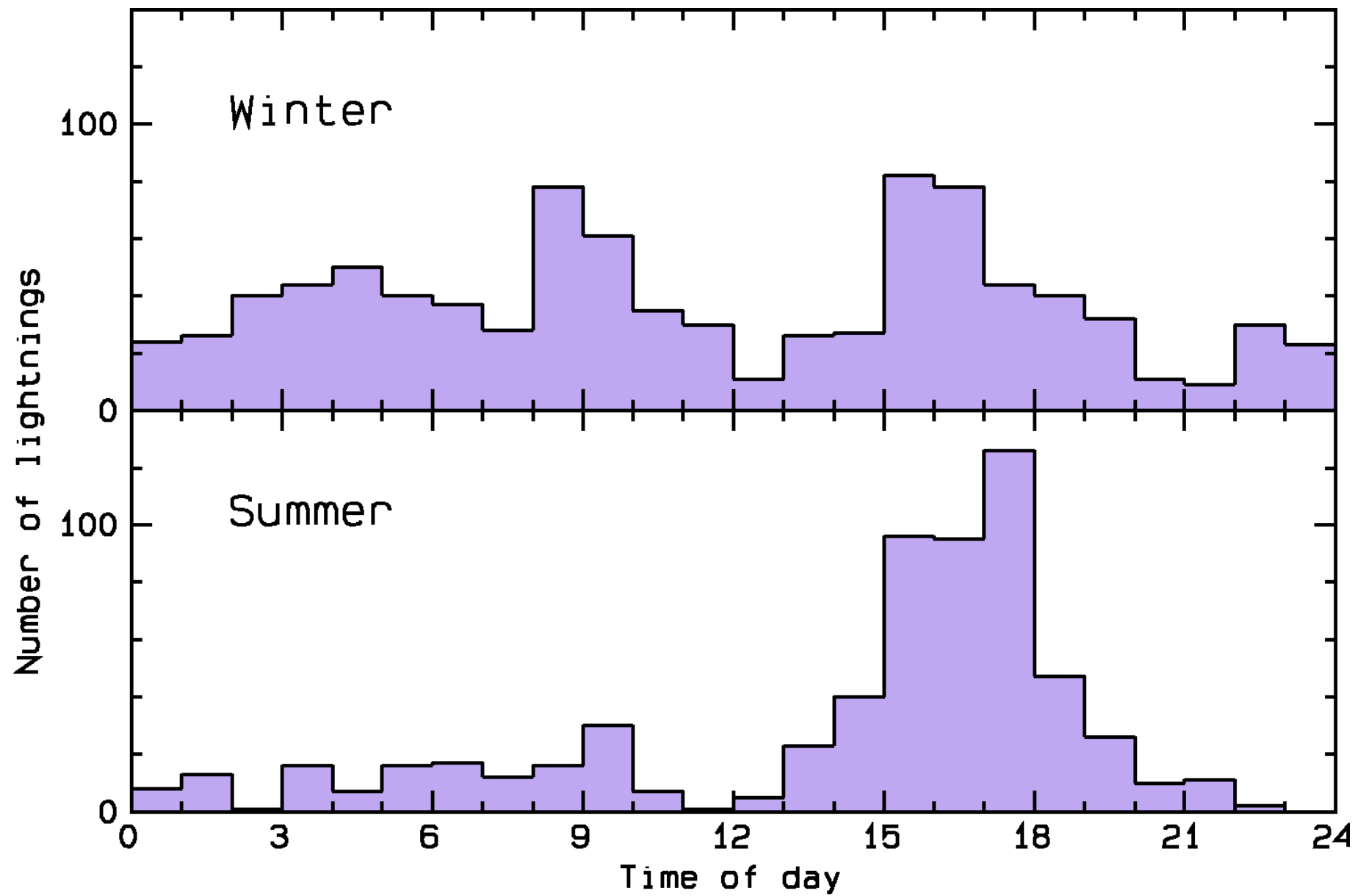
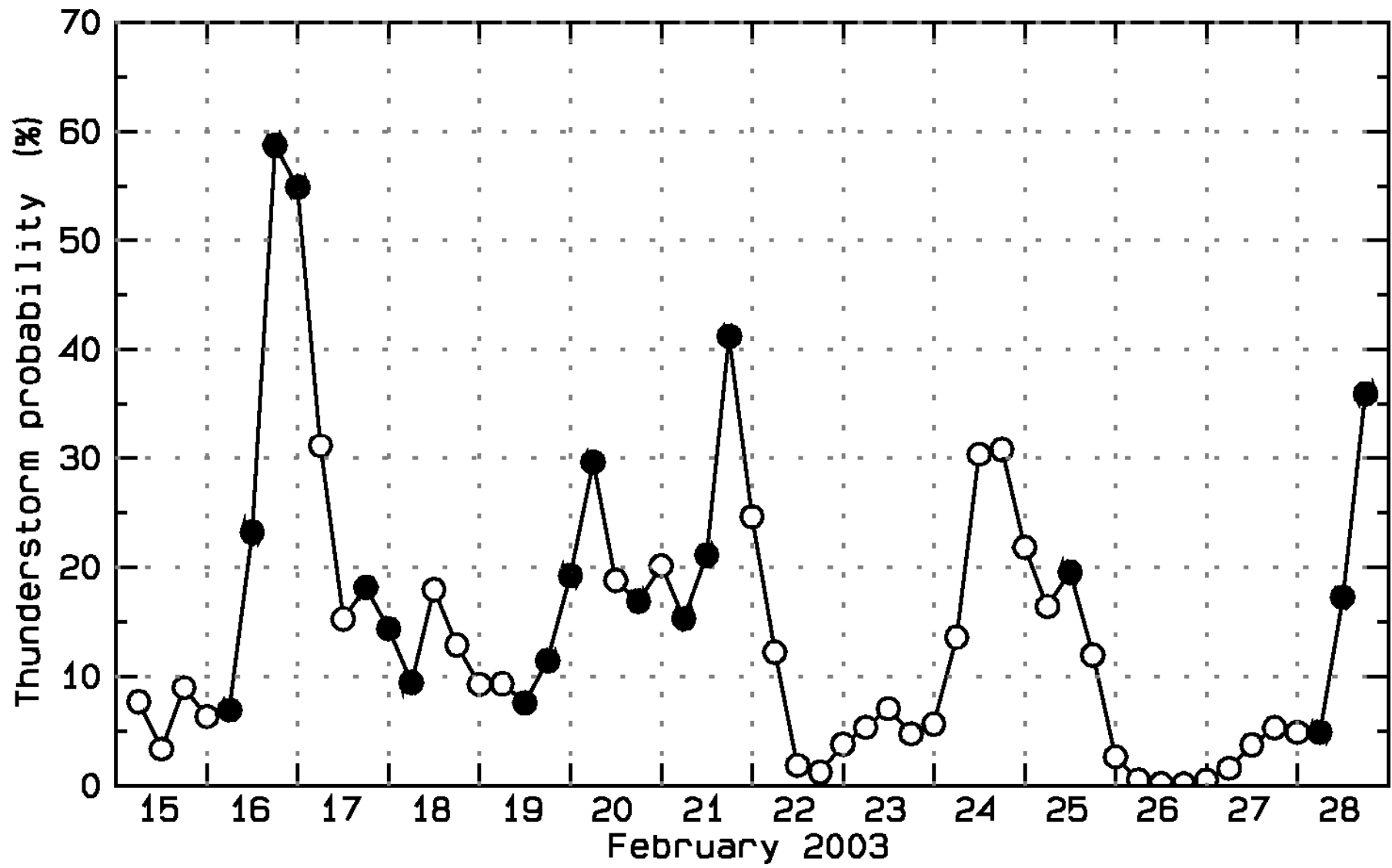


Table 2. Summary of indices considered for this study

<i>No</i>	<i>Index</i>	<i>Definition</i>
1	Air temperature at surface	T_s
2	Air temperature at 700 hPa	T_{700}
3	Air pressure at sea level	p
4	Westerly winds at 700 hPa	u_{700}
5	Southerly wind at 700 hPa	v_{700}
6	Elevation of the 500 hPa level	Z_{500}
7	Adedokun 1 Index	$\theta w_{850} - \theta s_{500}$
8	Adedokun 2 Index	$\theta w_s - \theta s_{500}$
9	Boyden Index	$0.1(Z_{700} - Z_{1000}) - T_{700} - 200$
10	Bradbury Index	$\theta w_{500} - \theta w_{850}$
11	Negative Convective Available Potential Energy (all terms)	$g \int (T^*_{0.5 \rightarrow z} - T)/T dz$
12	CAPE (only positive terms)	$g \int (T^*_{0.5 \rightarrow z} - T)/T dz$
13	Cross Totals Index (CT)	$Td_{850} - T_{500}$
14	Deep Convective Index	$T_{850} + Td_{850} - LI_s$
15	Jefferson Index	$1.6\theta w_{850} - T_{500} - (T_{700} - Td_{700})/2 - 8$
16	K Index (KI)	$T_{850} - T_{500} + Td_{850} - T_{700} + Td_{700}$
17	Lifted Index (from surface) (LI_s)	$T_{500} - T^*_{s \rightarrow 500}$
18	Lifted Index (0.5km) ($LI_{0.5}$)	$T_{500} - T^*_{0.5 \rightarrow 500}$
19	Showalter Stability Index	$T_{500} - T^*_{850 \rightarrow 500}$
20	S Index	$TT - (T_{700} - Td_{700}) - A$
21	Thompson Index	$KI - LI_{0.5}$
22	Total Totals Index (TT)	$CT + VT$
23	Vertical Totals Index (VT)	$T_{850} - T_{500}$
24	Integrated Water Content	$\int \rho_v dz$



67°N

Þrumuspá 20. febrúar 2003 kl. 6

66°N

65°N

64°N

63°N

24°W

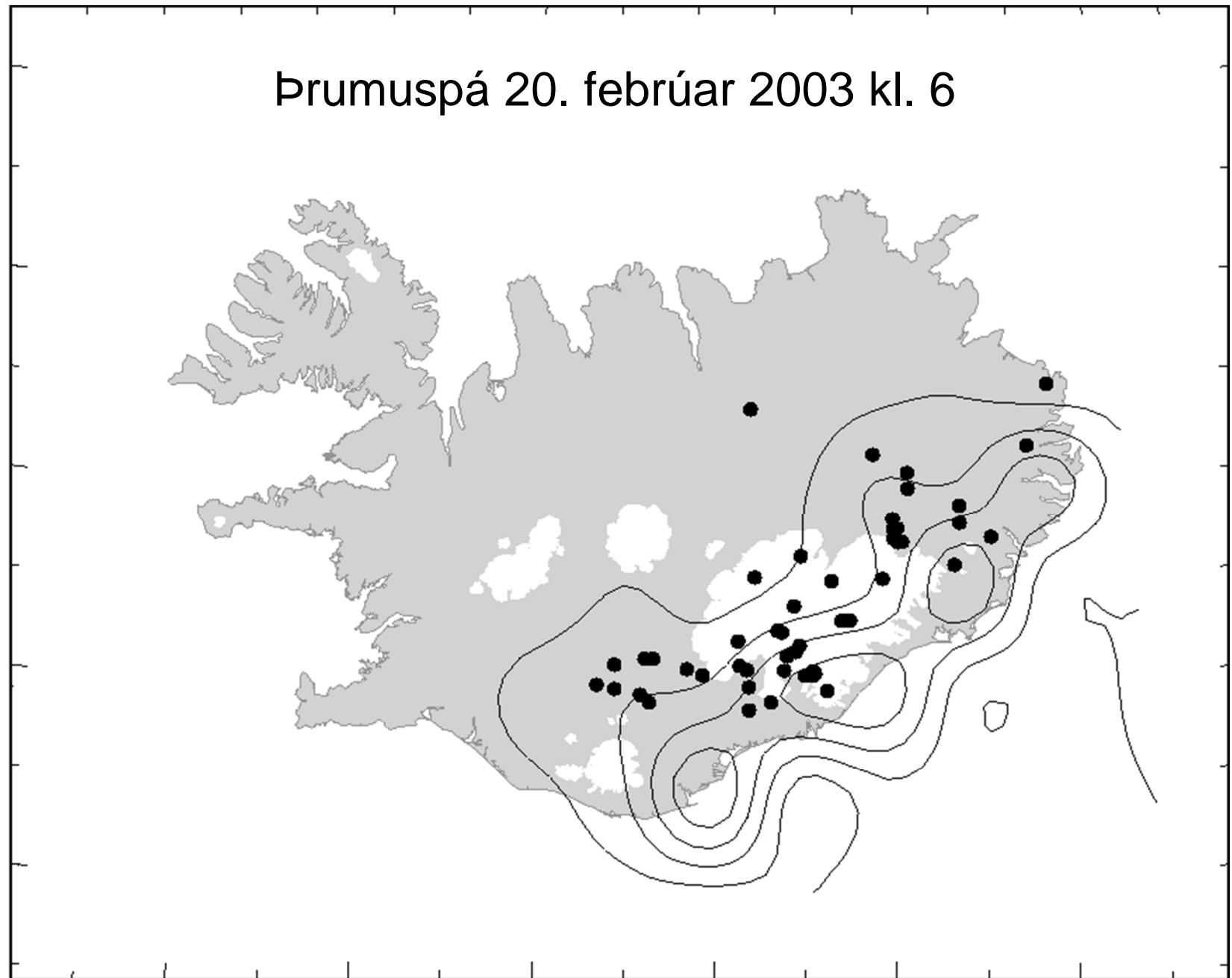
22°W

20°W

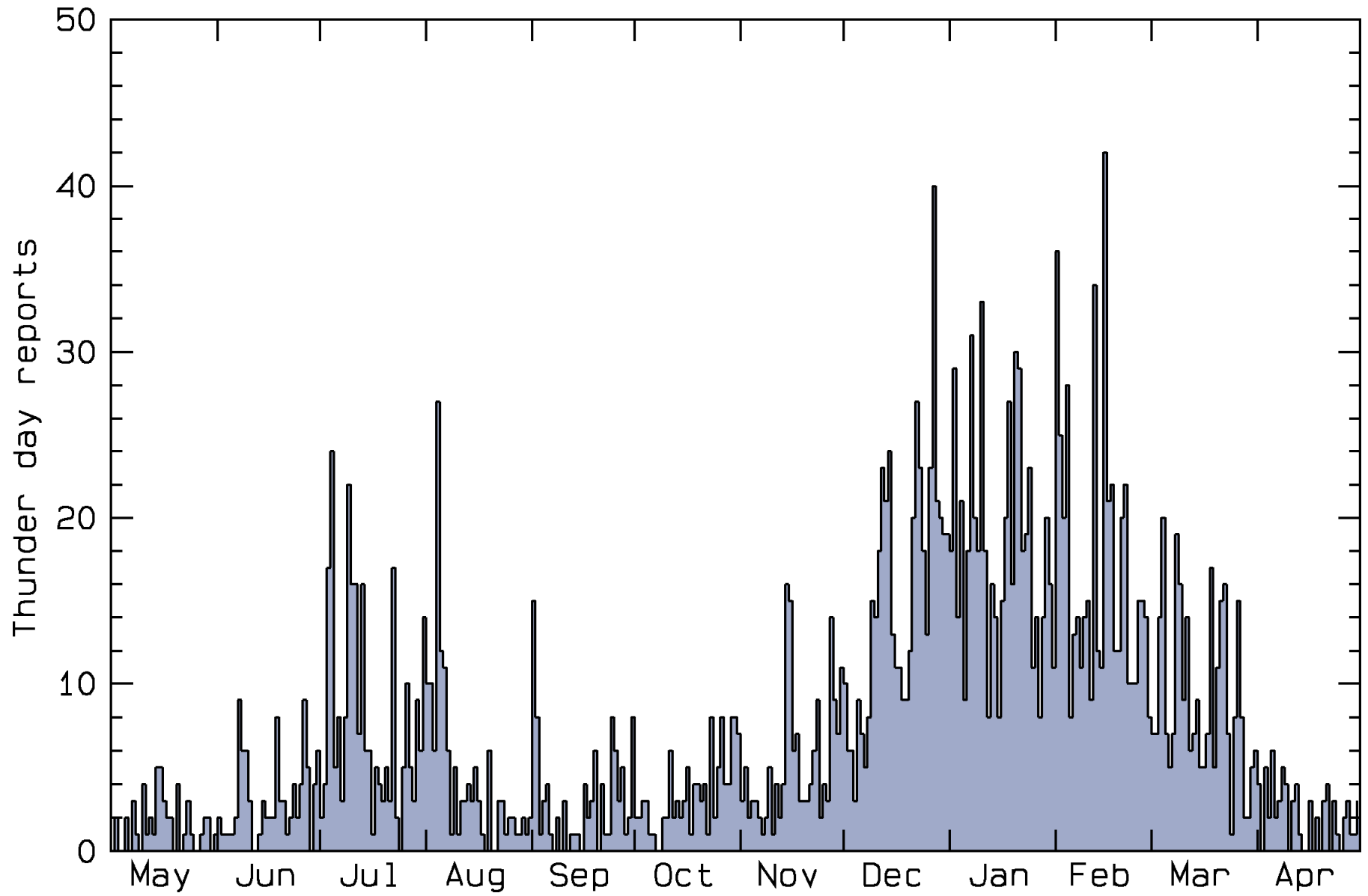
18°W

16°W

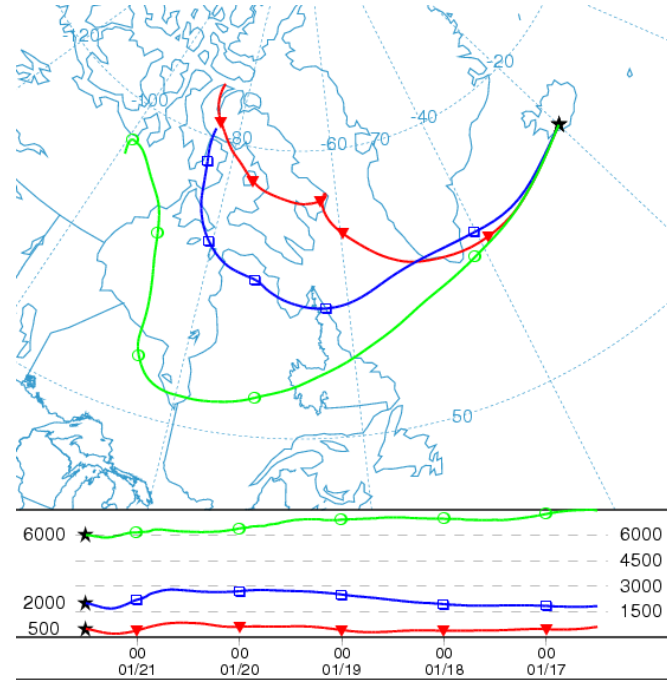
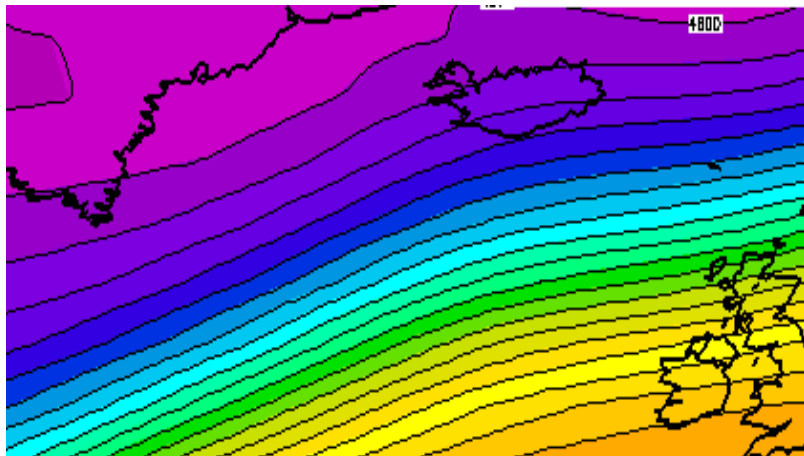
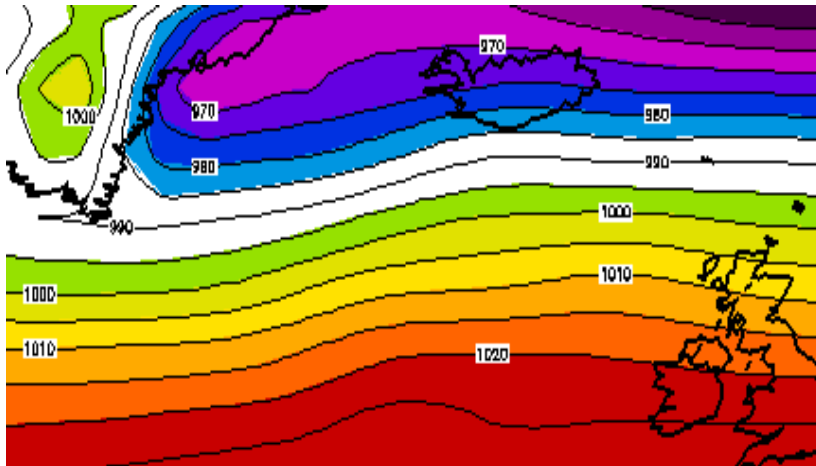
14°W



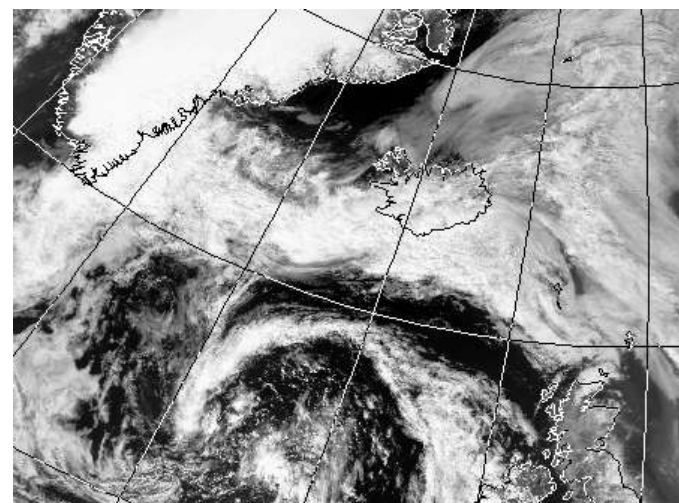
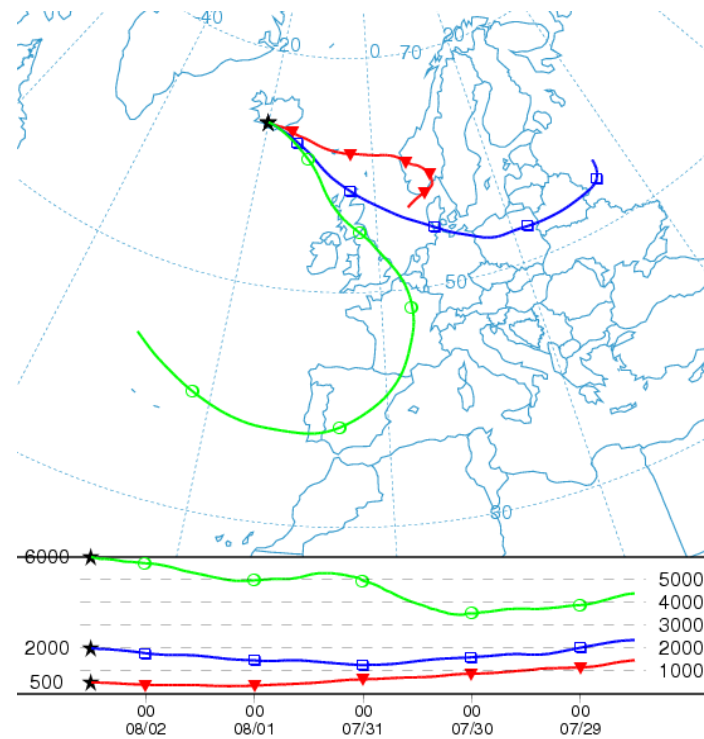
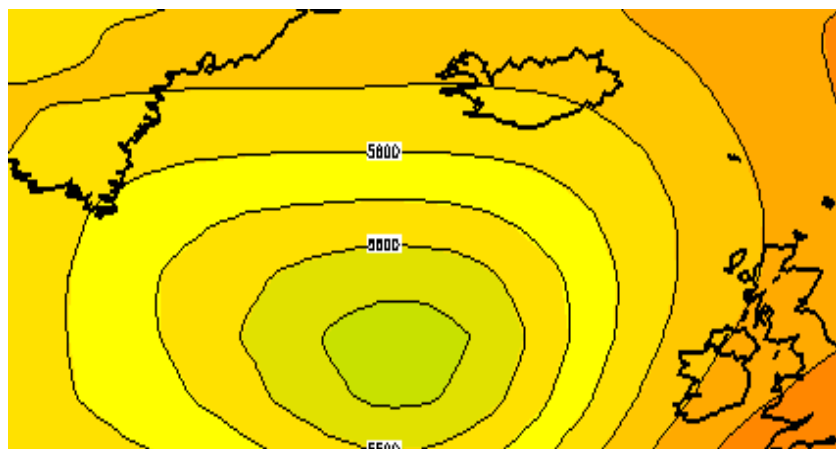
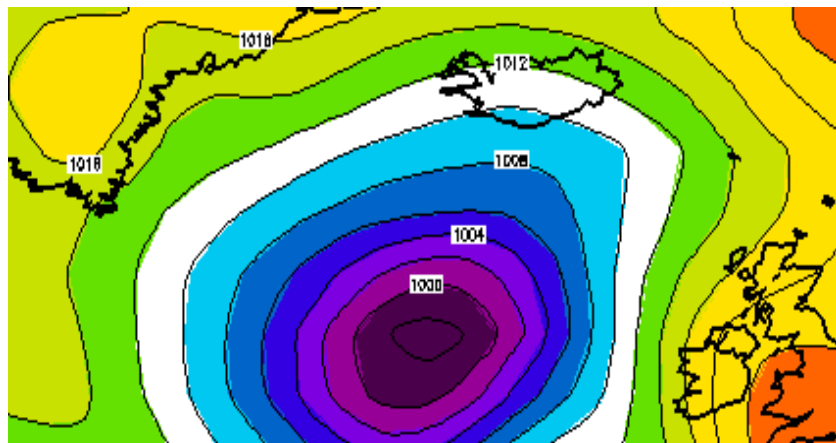
Uppruni loftmassans



Þrumuveðrið 21. janúar 1994



Þrumuveðrið 2. ágúst 1991



Winter	Origin of low level airmass	Wind veering	Advection
94-01-21	N-America	0°	60 m/s
93-02-12	N-America	20° (warm advection)	40 m/s
91-01-30	N-America	10° (warm advection)	40 m/s
89-01-11	N-America	0°	10 m/s
83-12-27	N-America	0°	20 m/s
Summer			
91-08-02	Britain/Cont.Europe	0°	10 m/s
91-07-08	Britain/Cont.Europe	0°	10 m/s
88-07-10	Britain/Cont.Europe	0°	10 m/s
84-07-11	Britain/Cont.Europe	10° (warm advection)	10 m/s
82-07-03	S-Ocean	80° (cold advection)	10 m/s
Interm. Season			
99-09-05	N-America	50° (cold advection)	10 m/s
97-09-27	N-America	10° (warm advection)	30 m/s
89-10-31	N-America	0°	50 m/s
81-09-01	Britain/SE-Ocean	0°	30 m/s
81-05-14	Britain/Cont. Europe	0°	20 m/s

