Table 1 Summary of ice events under consideration.

Event ID	*Date*	*File name*	*Segment*	*Time period*	*Ice thickness (m)*	*Ice velocity (m/s)*	*Failure mode*	*Face load (MN), Loaded face (N, S, E or W)*		
								MEDOF	*EXT*	*SG09*
0307A	March 7	F603071520	full file	15:20:41 – 16:31:01	5.2m average (range: 4.3 – 6.3m)	0.05	CR, SLD & MM (for North face only)	209 (N)	135 (N), 231 (W)	210 (N)**
0307A-1			1	15:20:41 – 15:32:21	FY ice		CR	198 (N)	89 (N), 33 (W)	118 (N)**
0307A-2			2	15:32:22 – 15:44:32	5.2	0.05	SLD	55 (N)	71 (W)	
0307A-3			3	15:44:33 – 16:10:25	5.2	0.05	MM	114 (N)	231 (W)	41 (N)**
0307A-4			4	16:10:26 – 16:16:01	5.2	0.05	CR	136 (N)	60 (N), 190 (W)	142 (N)**
0307A-5			5	16:16:02 – 16:31:01	5.2	0.05	CR	209 (N)	135 (N)	210 (N)**
0307B	March 7	F603071603	full file	16:38:54 – 17:43:47	5.2	0.05	CR, MM & SLD	141 (N)	175 (N)	244 (N)**
0307B-1			1	16:38:54 – 16:45:05	5.2	0.05	CR	141 (N)	175 (N)	244 (N)**
0307B-2			2	16:45:06 – 17:43:47	5.2	0.05	SLD & MM	96 (N)	145 (N)	175 (N)**
0308A	March 8	F603081603	full file	16:03:13 – 17:14:12	3.5* (FY ice at end of time period)	0.1, then slows to creep	CR & SLW	150 (N)	145 (N)	154 (N)**
0308B	March 8	F603081731	full file	17:31:54 - 18:36:33	4.3	0.02 – 0.05	CR, CC, SLD & MM	249 (N)	271 (N)	266 (N)**
0308C	March 8	F603082101	full file	21:11:21 - 22:22:20	2.6*	?	no video	14 (N)	48 (N)	43 (N)**
0308D	March 8	F603082201	full file	22:26:08 - 23:02:07	2.6*	?	no video	20 (N)	67 (N)	54 (N)**
0325A	March 25	F603250801	full file	08:30:39 – 09:44:13	3.5*	creep	SLW	100 (N)	96 (N)	92 (N)**
0325B	March 25	F603251302	full file	13:50:10 – 16:00:08	3.5*	creep	SLW	100 (N)	123 (N)	91 (N)**

Table 1 (cont'd): Summary of ice events under consideration.

Event ID	*Date*	*File name*	*Segment*	*Time Period*	*Ice thickness (m)*	*Ice velocity (m/s)*	*Failure Mode*	*Face load (MN), Loaded face (N, S, E or W)*		
								MEDOF	***EXT***	***SG09***
0412A	April 12	3 BURST files + "J" file	full files	08:23:30 – 08:45:00	East face: 6m average (range: 3.3m to 10m with hummock) South face: FY ice (refrozen wake)	0.06	CR & CC (for East face only)	>144 (E)	388 (E), 79 (S)	389 (E) †, 49 (S)
0412A -1		E604120823	full file	08:23:30 – 08:25:00	6	0.06	CR & CC	N/A	196 (E) , 79 (S)	214 (E) †
0412A -2		E604120827	full file	08:27:02 – 08:28:24	6	0.06	CR & CC	N/A	314 (E) , 33 (S)	389 (E) †
0412A -3		E604120828	full file	08:28:26 – 08:29:56	6	0.06	CR & CC	N/A	388 (E) , 27 (S)	304 (E) †
0412A -4		J6041208	full file	08:33:59 – 08:45:00	6		CR	144 (E)	321 (E) , 6 (S)	151 (E) , 49 (S)
0412B	April 12	F604121101	full file	11:16:02 – 12:29:31	3.5 m average (range: 2.5 – 6m)	0.1	CC, CR, MM & SLW	180 (E)	99 (E)	85 (E)
0412B -1			1	11:16:02 – 11:24:51	3.5	0.1	CC	106 (E)	68 (E)	84 (E)
0412B -2			2	11:24:52 – 11:52:48	3.5	0.1	SLW & MM	79 (E)	42 (E)	48 (E)
0412B -3			3	11:52:49 – 11:57:12	3.5	0.1	CR	180 (E)	99 (E)	85 (E)
0412B -4			4	11:57:13 – 12:29:31	3.5	0.1	SLD	22 (E)	24 (E)	19 (E)
0412C	April 12	F604121201	full file	13:00:07 – 14:01:04	5.9	0.06	CR, MM & SLD (for East face only)	179 (E)	131 (E), 207 (S)	157 (E), 214 (S)
0412C -1			1	13:00:07 – 13:01:32	5.9	0.06	CR	43 (E)	17 (E)	25 (E), 23 (S)
0412C -2			2	13:01:33 – 13:03:11	5.9	0.06	CR	62 (E)	44 (E), 18 (S)	65 (E), 51 (S)
0412C -3			3	13:03:12 – 13:08:46	5.9	0.06	CR	144 (E)	74 (E) , 60 (S)	120 (E), 113 (S)
0412C -4			4	13:08:47 – 13:10:43	5.9	0.06	CR	93 (E)	65 (E), 63 (S)	100 (E), 94 (S)
0412C -5			5	13:10:44 – 13:14:57	5.9	0.06	CR	72 (E)	77 (E), 73 (S)	89 (E), 102 (S)
0412C -6			6	13:14:58 – 13:19:25	5.9	0.06	CR	139 (E)	131 (E), 79 (S)	145 (E), 115 (S)
0412C -7			7	13:19:26 – 13:42:30	5.9	0.06	SLD	179 (E)	112 (E), 207 (S)	157 (E), 214 (S)
0412C -8			8	13:42:31 – 13:50:15	5.9	0.06	CR	115 (E)	98 (E), 75 (S)	142 (E), 91 (S)
0412C -9			9	13:50:16 – 14:01:04	5.9	0.06	SLD & MM	34 (E)	44 (E), 138 (S)	62 (E), 153 (S)

Table 1 (cont'd): Summary of ice events under consideration.

Event ID	*Date*	*File name*	*Segment*	*Time Period*	*Ice thickness (m)*	*Ice velocity (m/s)*	*Failure Mode*	*Face load (MN), Loaded face (N, S, E or W)*		
								MEDOF	*EXT*	*SG09*
0412D	April 12	F604121400	full file	14:03:20 – 14:19:35	MY or SY ice, followed by FY	?	CR, SLD & MM (for East face only)	116 (E)	97 (E), 58 (S)	91 (E), 76 (S)
0412D-1			1	14:03:20 – 14:10:10	Thinner MY or SY ice (<5.9m)	?	CR, MM, SLD	104 (E)	93 (E), 45 (S)	76 (E), 43 (S)
0412D-2			2	14:10:10 – 14:19:35	Likely to be FY ice	?	CR, SLD	116 (E)	97 (E), 58 (S)	91 (E), 81 (S)
0412E	April 12	F60412140A	full file	14:19:35 – 14:35:31	2.2m average; mainly FY ice – possibly some MY rubble	?	CR & MM (for East face only)	103 (E)	99 (E), 55 (S)	79 (E), 76 (S)
0412E-1			1	14:19:35 – 14:20:56	2.2	?	CR	103 (E)	99 (E), 55 (S)	79 (E), 76 (S)
0412E-2			2	14:20:57 – 14:35:31	2.2	?	MM	100 (E)	82 (E), 33 (S)	63 (E), 41 (S)
0512A	May 12	F605120301	full file	03:10:16 – 03:58:24	2.6m average	0.1 to creep	CR, MM & SLW	274 (N)	267 (N)	214 (N)
0512A-1			1	03:10:16 – 03:16:28	2.5	0.1	MM	139 (N)	53 (N)	53 (N)
0512A-2			2	03:16:29 – 03:19:28	2.5	0.09	CR	201 (N)	135 (N)	127 (N)
0512A-3			3	03:19:29 – 03:22:23	2.5	0.08	MM	165 (N)	198 (N)	167 (N)
0512A-4			4	03:22:24 – 03:27:33	2.7	0.08 to creep	CR	274 (N)	267 (N)	214 (N)
0512A-5			5	03:27:34 – 03:58:24	3.0	creep	SLW	161 (N)	137 (N)	72 (N)
0522A	May 22	F605220801	full file	08:39:23 – 09:50:27	2.5	creep	SLW & MM (for North face only)	125 (N), 50 (E)	165 (N), 43 (E)	105 (N), 49 (E)
0522A -1			1	08:39:23 – 09:16:56	2.5	creep	SLW	125 (N)	112 (N)	103 (N)
0522A -2			2	09:16:57 – 09:21:25	2.5	creep	MM	98 (N)	109 (N)	85 (N)
0522A -3			3	09:21:26 – 09:29:50	2.5	creep	SLW	110 (N)	149 (N)	105 (N)

Table 1 (cont'd): Summary of ice events under consideration.

Event ID	*Date*	*File name*	*Segment*	*Time Period*	*Ice thickness (m)*	*Ice velocity (m/s)*	*Failure Mode*	*Face load (MN), Loaded face (N, S, E or W)*		
								MEDOF	*EXT*	*SG09*
0522B	May 22	F605221301	full file	13:58:07 – 15:11:32	3.5 (est.)	creep to 0.05	CR, SLD & SLW (for North face only)	145 (N), 115 (E)	107 (N), 49 (E)	104 (N), 80 (E)
0522B -1			1	13:58:07 – 14:01:04	3.5	creep	CR	44 (N), 28 (E)	35 (N)	30 (N), 18 (E)
0522B -2			2	14:01:05 – 14:06:43	3.5	creep	CR	145 (N), 46 (E)	88 (N)	96 (N), 24 (E)
0522B -3			3	14:06:44 – 14:54:50	3.5	0.05	SLD	40 (N), 115 (E)	20 (N), 47 (E)	73 (E)
0522B -4			4	14:54:51 – 14:56:54	3.5	0.05	CR	43 (N), 105 (E)	39 (N), 49 (E)	43 (N), 80 (E)
0522B -5			5	14:56:55 – 15:01:58	3.5	0.05	CR	84 (N), 105 (E)	93 (N), 41 (E)	94 (N), 66 (E)
0522B -6			6	15:01:59 – 15:11:32	3.5	0.05	SLW	145 (N), 28 (E)	107 (N)	104 (N), 26 (E)
0602A	June 2	F606021301	full file	13:02:26 – 14:16:45	2 (est.)	creep to 0.01	CR, MM, SLW & SLD	121 (E)	93 (E)	81 (E)
0602A -1			1	13:02:26 – 13:11:30	2	creep	SLW	47 (E)	83 (E)	73 (E)
0602A -2			2	13:11:31 – 13:32:05	2	0.01	CR	121 (E)	93 (E)	81 (E)
0602A -3			3	13:32:06 – 13:41:08	2	0.01	SLD & MM	59 (E)	80 (E)	73 (E)
0602A -4			4	13:41:09 – 13:51:53	2	0.01	CR	83 (E)	68 (E)	75 (E)
0602A -5			5	13:51:54 – 13:55:09	2	0.01	CR	48 (E)	69 (E)	73 (E)
0602A -6			6	13:55:10 – 13:58:04	2	0.01	SLD	45 (E)	71 (E)	65 (E)
0602A -7			7	13:58:05 – 14:10:16	2	0.01	CR	84 (E)	81 (E)	76 (E)
0602A -8			8	14:10:17 – 14:16:45	2	0.01	CR	57 (E)	72 (E)	62 (E)
0602B	June 2	F606022201	full file	20:16:55 – 21:24:33	FY ice 2m (est.), with MY inclusions	creep to 0.01	SLW, CR & MM	89 (E)	64 (E)	61 (E)
0602B -1			1	20:16:55 – 20:40:19	2	creep	SLW	53 (E)	58 (E)	57 (E)
0602B -2			2	20:40:20 – 20:43:53	2	0.01	CR	89 (E)	64 (E)	61 (E)
0602B -3			3	20:43:54 – 21:00:50	2	0.01	MM	73 (E)	42 (E)	45 (E)
0602B -4			4	21:00:51 – 21:24:33	2	0.01	SLD			16 (E)
0625A	June 25	E606250542, F606250501	full files	05:31:17 – 06:44:56	2 (est.)	0.2 to creep	CR, SLW	-	95 (W)	118 (W)

Definition of symbols:

* = no load on lower panel

** = For events before April 12, 1986 and for burst files on April 12, some SG09 strain gauges were not yet in place or were not connected to the data acquisition system. For these events, SG09 N1, E1, and E3 data are not available. Forces are extrapolated over the **full face** to get a peak face load. See Final Report by CHC.

† = For the 3 BURST files on April 12, 1986, only SG09 E2 is available for the east face, and the load is extrapolated over the full face. This load is reduced by 20% to account for higher loads generally measured at the centre of the face. See Frederking and Sudom (2006).

Notes:

- For events with loads on more than one face, the maximum face loads on different faces do not necessarily occur at the same point in time.
- Ice failure mode abbreviations, based on work by Brian Wright:
  - CR: continuous ice crushing
  - CC cyclic ice crushing
  - MM mixed modal failures
  - SLD ice sliding along a face
  - SLW a creep or indiscernibly slow ice push
- Ice thickness & drift speed for May 12 and May 22, 1986, is from NRC Ice Load Catalogue (Timco et al., 1999)