

Table 1. Summary of polarimetric observations for different crystal types.

Part (a): Observations at near-horizontal radar beam angles, $\alpha < 25^\circ$.

	Date (M/D/Y)	Time (UTC)	α ($^\circ$)	T ($^\circ\text{C}$)	Type	Size (μm)	Z_{eHH} (dBZ)	Z_{DR}			LDR_{HV}		
								mean	90%	max	mean	90%	max
1	02/18/97	160650-160655	2	-15.5	P1a	250-600	-7	4.6	5.3	5.8	-18.2	-15.7	-14.4
2	02/18/97	155210-155213	3	-13.2	P1a	600-1500	-6	6.4	7.1	7.6	-16.2	-13.9	-12.1
3	02/18/97	155326-155334	1	-13.7	P1d	500-1300	-10	7.0	7.7	8.6	-15.3	-12.4	-10.6
4	02/18/97	160748-160752	8	-15.6	P1a / P1d	500-1300	-3	6.4	7.1	7.4	-17.8	-14.9	-11.7
5	02/18/97	161949-161958	1	-13.3	P1a / P1d	600-1500	-4	6.2	7.2	8.0	-16.0	-13.7	-11.1
6	04/02/97	202515-202530	2	-6.2	R4a	800-1600	5	0.7	1.2	2.0	<-22	-20.4	-17.5
7	03/28/97	001700-001705	1	-13.2	R4a	800-1500	4	0.8	1.1	1.4	<-22	-19.1	-16.3
8	04/02/97	182935-183045	1	-11.5	P1e	3000-6000	-14	2.3	2.9	3.8	-14.2	-12.6	-10.5
9	04/02/97	183636-183700	1	-13.8	R2b	2600-4400	-5	0.7	1.3	1.8	-17.0	-15.0	-12.8
10	09/06/95	173348-173358	1	-5.6	R1a / few R2b	2100-5000	2	2.2	2.7	3.8	-19.8	-17.1	-15.7

Table 1. Part (a) (continued.).

11	09/06/95	173750-173758	25	-5.5	R1a / few R2b	1000-3000	-10	2.2	2.8	3.6	ND	ND	ND
12	02/18/97	162047-162057	6	-13.8	P1d / R2b	1000-4000	3	2.3	3.0	5.1	-18.2	-15.8	-12.5
13	03/24/97	174440-174450	0	-13.5	P1a/P1d/R3b	500-1500	-3	2.1	2.8	3.5	-17.4	-15.1	-12.0
14	02/18/97	162018-162024	4	-13.6	P1a/ R3b	2000-3000	3	3.0	3.6	4.1	-17.7	-15.4	-14.4
15	03/13/97	000540-000622	0	-14.6	P1e/R2b	2000-4000	4	1.5	1.9	2.7	-15.8	-14.0	-11.6
16	02/11/97	225340-225400	1	-12.7	P1a/CP1a	400-800	3	1.6	2.0	2.5	<-22	-19.4	-16.5
17	02/11/97	230730-230755	2	-12.5	P1a/CP1a/R4b	400-1000	8	1.2	1.6	2.2	-19.8	-16.9	-13.4
18	09/06/95	164520-164530	25	0.8	ML	700-1300	1	2.2	2.7	3.3	-18.1	-14.6	-12.4
19	09/06/95	164550-164650	25	—	ML	—	15	1.2	1.8	2.8	-13.3	-11.2	-9.1
20	03/23/97	001320-001400	3	-14.3	R4b/R4c	3000-6000	13	0.9	1.5	2.6	-12.7	-9.3	-6.4
21	04/04/97	210050-210110	3	-6.5	R4b/R4c	3000-6000	19	-0.5	0.4	1.5	-9.7	-7.4	-5.7

Part (b): Observations at near-vertical radar beam angles, $\alpha > 65^\circ$.

	Date	Time	α	T	Type	Size	Z_{eHH}	Z_{DR}			LDR_{HV}		
	(M/D/Y)	(UTC)	($^\circ$)	($^\circ\text{C}$)		(μm)	(dBZ)	mean	90%	max	mean	90%	max
22	02/18/97	154210-154230	87	-12.7	P1a	600-1000	-22	0.0	0.4	0.9	ND	ND	ND
23	02/18/97	155823-155842	88	-13.6	P1d	500-1000	-24	0.0	0.7	1.0	ND	ND	ND
24	02/18/97	154418-154435	89	-13.4	P1a/P1d	500-1500	-8	-0.1	0.3	1.1	<-22	-20.2	-17.4
25	04/02/97	182830-182930	89	-12.0	P1e	3000-6000	-3	0.2	0.5	1.0	<-22	-19.7	-15.5
26*	09/06/95	171505-171510	86	-0.5	R1a	600-1500	-9	—	—	—	-19.3	-16.4	-14.1
27*	09/06/95	172610-172614	87	-5.5	N1a	—	7	—	—	—	-18.7	-16.5	-14.3
28	03/02/97	213410-213420	88	-40.0	C1c/C2a	300-800	-14	0.3	0.6	1.3	-19.4	-17.2	-14.5
29	02/11/97	222139-222228	74	-28.8	C1c/C1e	300-600	-18	0.1	0.5	1.3	-19.0	-16.3	-12.3
30	02/11/97	222410-222440	85	-28.0	C2a	400-800	2	0.1	0.5	1.1	-22	-19.1	-16.2

Table 1. Part (b) (continued.).

31	02/11/97	230520-230535	89	-12.2	P1a/CP1a	500-1200	6	0.0	0.3	0.8	<-22	-19.4	-17.0
32	02/11/97	230800-230810	84	-11.6	P1a/Cp1a/R4a	500-1200	8	0.0	0.4	0.8	<-22	-19.2	-16.6
33	09/06/95	165850-165905	87	—	ML	—	15	-0.1	0.3	0.9	-14.0	-11.4	-9.6
34*	09/06/95	172105-172110	89	—	ML	—	16	—	—	—	-11.6	-9.7	-7.9
35	03/23/97	001045-001105	88	-14.5	R4b/R4c	3000-6000	14	0.1	0.8	1.9	-16.3	-14.4	-12.2
36	04/04/97	204800-204815	73	—	R4b/R4c	—	19	-0.1	0.8	2.3	-13.4	-11.3	-8.8

—= indicate no data

ML = indicate melting crystal in the melting layer

ND = indicate 'not detectable'

* = LDR values in these lines are LDR_{VH}