

SPECIAL GEOMAGNETIC EVENTS  
Normal magnetograms

Sudden commencements (SC):

			X	Y	Z
Jan 19 17 32	SSC	A			
	32.5	±.2	-3	+2	+1
	33.2	±.2	-6	-5	-10

PULSATIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
pc 4:					
4	0115	1200	C	45-150	6
6	0445	1850	B	45-150	8
8	0025	1715	C	45-150	8
12	0350	1000	C	45-150	6
15	0235	1200	C	45-150	6
20	0455	1245	B	45-150	15
25	1615	2205	C	45-150	6
pc 5:					
2	0600	1400	C	150-360	10
13	0400	1600	C	150-360	10
14	0245	1655	B	150-360	18
17	0305	1515	B	150-360	15
18	0755	2000	B	150-360	18
19	0150	0550	C	150-360	15
25	0230	1600	C	150-360	12
26	0335	1400	B	150-360	15
27	0700	1640	B	150-360	15

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Sudden commencements (SC):

		X	Y	Z
Feb 16 12 08	ssc* A			
	08.7 ±.2	-12	+2	-3
	09.3 ±.2	+21	-7	+2

PULSATIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
pc 4:					
3	1015	1605	C	45-150	8
9	0615	1220	C	45-150	6
10	0445	0940	C	45-150	6
12	0030	0830	C	45-150	6
14	0420	1400	B	45-150	12
15	0325	1100	C	45-150	6
16	1205	1700	C	45-150	7
17	0440	1635	B	45-150	7
pc 5:					
2	0505	1525	B	150-360	15
7	0450	1540	B	150-360	15
8	0755	1550	C	150-360	15
13	0235	1330	C	150-360	15
20	0700	1600	C	150-360	9
22	0945	1810	C	150-360	15

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Sudden commencements (SC):

		X	Y	Z
Mar 17 06 00	SSC A			
	00.3 ±.2	+67	-56	-13
	00.9 ±.2	-141	+70	+24

PULSATATIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
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pc 4:

3	0145	1050	B	45-150	12
8	0600	1915	B	45-150	8
13	0135	1850	C	45-150	7
16	0135	1000	C	45-150	10
20	0350	1600	C	45-150	8
21	0540	1400	C	45-150	8
22	0130	1255	C	45-150	10
23	0725	1635	C	45-150	8
24	0155	1550	C	45-150	12
25	0515	1800	C	45-150	7
26	0030	1400	C	45-150	7
28	0130	1710	B	45-150	8
29	0200	1500	B	45-150	12

pc 5:

1	0410	1715	B	150-360	20
2	0400	1505	B	150-360	20
12	0300	1500	B	150-360	15
15	0245	1650	B	150-360	20
18	0130	1940	B	150-360	18
19	1125	1925	C	150-360	12
27	0115	1600	B	150-360	20
30	0550	1600	B	150-360	15
31	0405	1415	C	150-360	10

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Sudden commencements (SC):

			X	Y	Z
Apr 23	04 53	ssc* B			
	53.2 ±.2		-1	+4	+2
	54.2 ±.2		+10	-15	-4
Apr 30	09 48	SSC B			
	48.7 ±.2		-9	-1	+1
	49.3 ±.2		+13	+15	0

PULSATIONS

from normal recordings:

7	0310	0940	C	45-150	7
17	0845	1520	C	45-150	6
27	0300	1345	C	45-150	8

pc 5:

6	0415	1310	C	150-360	6
8	0420	1405	C	150-360	9
9	0420	1145	C	150-360	15
10	0255	1840	B	150-360	12
11	0455	1900	B	150-360	15
12	0200	1315	B	150-360	15
13	0505	1520	B	150-360	15
14	0015	2000	B	150-360	25
15	0015	1010	C	150-360	12
21	0005	1000	C	150-360	8
22	0040	0755	C	150-360	6
23	0220	1200	B	150-360	15
24	0425	1600	B	150-360	20
26	0535	1555	B	150-360	20
28	0900	1525	C	150-360	12
30	0945	1645	C	150-360	12

SPECIAL GEOMAGNETIC EVENTS  
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Sudden commencements (SC):

			X	Y	Z
May 31	16	17			
		SSC A			
		17.3 ±.2	+6	+5	+2
		18.9 ±.2	+5	-14	-2

PULSATATIONS

from normal recordings:

8	0200	0920	B	45-150	12
22	0930	1205	B	45-150	12

pc 5:

1	0605	1300	B	150-360	15
2	0345	1230	B	150-360	20
6	0245	1845	B	150-360	20
7	0405	1715	B	150-360	15
9	0205	1700	C	150-360	12
10	0205	1330	B	150-360	15
11	0015	1600	C	150-360	12
12	0510	1400	B	150-360	15
13	0445	1800	C	150-360	15
14	0230	1600	B	150-360	15
15	0510	1730	B	150-360	15
16	0020	1440	B	150-360	20
18	0500	1515	C	150-360	20
22	0315	1925	B	150-360	20
24	0015	1355	B	150-360	15
25	0505	1435	B	150-360	15
26	0020	1620	A	150-360	45
27	0230	1410	B	150-360	15
28	0130	1545	B	150-360	18

SPECIAL GEOMAGNETIC EVENTS  
Normal magnetograms

Sudden commencements (SC):

		X	Y	Z
June 27 14 37	SSC A			
	37.5 ±.2	-5	+8	+2
	18.9 ±.2	+95	-42	-22

PULSATATIONS

from normal recordings:

6	0255	1210	B	45-150	15
9	0005	1545	B	45-150	12
21	0330	1510	B	45-150	15
24	0400	1405	C	45-150	12
25	0125	1120	C	45-150	10
30	0345	1620	B	45-150	12

pc 5:

1	0930	1915	B	150-360	35
2	0200	1730	A	150-360	40
3	0125	1430	A	150-360	30
4	0245	1445	B	150-360	15
5	0230	1435	C	150-360	15
7	0800	1720	B	150-360	15
8	0230	1655	B	150-360	20
10	0345	1800	B	150-360	20
22	0200	1610	B	150-360	20
23	0200	1415	B	150-360	20
29	0730	1915	B	150-360	15

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Normal magnetograms

Sudden commencements (SC):

none.

PULSATIIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
pc 4:					
1	0310	1330	C	45-150	12
3	0040	1100	C	45-150	8
5	0325	1335	C	45-150	8
11	0400	1215	B	45-150	8
13	0350	1440	B	45-150	15
15	0445	1245	C	45-150	12
18	0030	1400	B	45-150	12
20	0200	1400	B	45-150	15
pc 5:					
10	0330	1405	C	150-360	20
19	0345	1540	B	150-360	15
26	0245	1605	B	150-360	20

SPECIAL GEOMAGNETIC EVENTS  
Normal magnetograms

Sudden commencements (SC):

none.

PULSATATIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
pc 4:					
5	0355	1500	B	45-150	12
20	0600	1400	B	45-150	10
26	0125	0920	B	45-150	8
28	0250	1530	B	45-150	12
31	0330	1305	B	45-150	12
pc 5:					
2	0045	1230	C	150-360	8
3	0610	1355	C	150-360	8
4	0600	1615	B	150-360	15
9	0300	1745	B	150-360	15
10	0050	1105	B	150-360	12
11	0250	1535	B	150-360	15
13	0830	1815	B	150-360	15
15	0410	1915	B	150-360	15
16	0455	1450	A	150-360	35
17	0305	1650	B	150-360	18
18	0220	1800	B	150-360	15
21	0035	1900	B	150-360	15
22	0145	1630	B	150-360	15
23	0400	1155	C	150-360	15
30	0600	1715	B	150-360	15



SPECIAL GEOMAGNETIC EVENTS  
Normal magnetograms

Sudden commencements (SC):

none.

PULSATATIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
pc 4:					
1	0005	1620	B	45-150	8
2	0345	1420	B	45-150	8
4	0610	2235	B	45-150	9
5	0505	1955	B	45-150	8
17	0230	1345	B	45-150	7
19	0155	0800	B	45-150	9
20	0430	1325	B	45-150	8
pc 5:					
8	0400	1710	C	150-360	15
9	0420	1250	C	150-360	12
13	0145	0800	C	150-360	15
14	0155	1840	B	150-360	15
19	0800	1600	B	150-360	15
21	0645	1530	C	150-360	15
25	0315	1115	B	150-360	15

SPECIAL GEOMAGNETIC EVENTS  
Normal magnetograms

Sudden commencements (SC):

			X	Y	Z
Oct 02 01 54	SSC A				
	54.8 ±.2		+183	-15	+58
	55.8 ±.2		-210	+8	-34
Oct 29 10 34	ssc* B				
	34.2 ±.2		-6	-15	-6
	34.8 ±.2		+6	+23	+9

PULSATATIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
pc 4:					
8	1805	2020	C	45-150	12
16	0005	1200	B	45-150	12
17	0355	1805	B	45-150	8
pc 5:					
1	0500	1900	C	150-360	9
2	0600	1800	B	150-360	40
9	0415	1655	B	150-360	30
10	0300	1400	C	150-360	20
14	0630	1735	C	150-360	18
15	0415	1830	B	150-360	20
16	0350	1605	C	150-360	15
22	0750	1505	C	150-360	15
24	0135	1255	C	150-360	15
29	0935	1425	C	150-360	15
30	0450	1600	C	150-360	15

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Normal magnetograms

Sudden commencements (SC):

none.

PULSATATIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
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pc 5:

7	0655	1800	C	150-360	15
9	0410	2130	B	150-360	20
10	0405	1530	B	150-360	15
11	0300	1400	B	150-360	15
16	0400	1600	B	150-360	20
23	0825	1515	C	150-360	10
29	1545	1915	C	150-360	10

SPECIAL GEOMAGNETIC EVENTS  
Normal magnetograms

Sudden commencements (SC):

		X	Y	Z
Dec 13	13 22			
	SSC B			
	22.5 ±.2	-3	+2	-1
	23.0 ±.2	+4	-8	-4

PULSATATIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
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pc 5:

1	0320	1400	B	150-360	15
3	0225	1400	C	150-360	15
8	0510	1555	A	150-360	20
9	0215	0915	C	150-360	10
14	0130	1445	C	150-360	15
15	0205	1445	C	150-360	12
16	0135	0915	C	150-360	15
31	0740	1325	C	150-360	10