

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden commencements (SC):

		X	Y	Z
26 Jan 08:14	ssc* C			
	14.7 ±.2	+12	-16	0
	15.5 ±.2	-20	+25	-2

PULSATATIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
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pc 4:

5	0435	1410	B	45-150	15
6	0400	1300	B	45-150	20
7	0515	1705	B	45-150	12
8	0330	1630	B	45-150	15
9	0400	1550	B	45-150	12
20	0255	1030	C	45-150	10
21	0920	1605	C	45-150	8
28	0315	1735	B	45-150	12
30	0500	1600	B	45-150	10
31	0600	1545	B	45-150	15

pc 5:

1	0400	1600	B	150-360	15
3	0415	1605	B	150-360	10
18	0455	1215	B	150-360	15
19	0340	1505	C	150-360	12
20	1030	1600	C	150-360	15
26	0815	1750	B	150-360	15
27	0325	1240	B	150-360	30

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden commencements (SC):

None.

PULSATATIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
pc 4:					
4	0400	1400	B	45-150	12
5	0535	1615	B	45-150	8
6	0130	1400	B	45-150	10
7	0725	1720	B	45-150	8
8	0710	1745	B	45-150	7
9	0200	1805	B	45-150	10
17	0340	1100	C	45-150	7
18	0455	1630	B	45-150	15
19	0430	1400	B	45-150	15
20	0335	1455	B	45-150	10
22	0430	1100	C	45-150	8
23	0525	1525	B	45-150	9
25	0635	1600	C	45-150	9

pc 5:

1	0320	1215	B	150-360	30
2	0205	1445	B	150-360	20
3	0450	1555	B	150-360	20
24	0240	1620	B	150-360	30
27	0215	1805	C	150-360	10

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden commencements (SC):

None.

PULSATATIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
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pc 4:

6	0445	1215	B	45-150	12
7	0420	1500	B	45-150	12
10	0205	1635	B	45-150	12
24	0040	1545	B	45-150	12
26	0450	1405	C	45-150	8
29	0400	1245	B	45-150	15
30	0410	1530	C	45-150	12

pc 5:

2	0235	1435	B	150-360	30
3	0310	1605	B	150-360	25
4	0340	1400	B	150-360	30
5	0245	1345	B	150-360	25
21	0245	1400	B	150-360	35
22	0300	1200	B	150-360	25
23	1010	1615	C	150-360	12
25	0235	1200	C	150-360	8
27	0200	1145	B	150-360	15
28	0405	1430	B	150-360	25
31	0430	1245	B	150-360	25

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden commencements (SC):

		X	Y	Z
18 Apr 16:03	ssc* C			
	03.2 ±.2	-3	+2	+1
	03.8 ±.2	-4	-5	+1

PULSATATIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
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pc 4:

1	0435	1400	B	45-150	8
3	0250	1635	B	45-150	9
4	0055	1000	B	45-150	12
6	0335	1330	C	45-150	8
8	0255	1800	B	45-150	12
21	0435	1615	B	45-150	8

pc 5:

4	1015	2250	C	150-360	15
5	0005	1605	B	150-360	15
9	0520	1530	B	150-360	12
10	1200	1940	B	150-360	15
11	0400	1715	B	150-360	22
20	0605	1715	B	150-360	12
22	0510	1800	B	150-360	50
23	0155	1315	B	150-360	45
24	0545	1600	B	150-360	20
25	0620	1400	B	150-360	15

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden commencements (SC):

		X	Y	Z
27 May 15:35	ssc* A			
	35.5 ±.2	+10	-9	-4
	36.8 ±.2	-66	-12	-7

PULSATATIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
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pc 4:

9	1215	2000	C	45-150	8
16	0020	1220	B	45-150	12
18	0145	0800	C	45-150	9
21	0030	1230	B	45-150	12
23	0002	1155	B	45-150	10

pc 5:

3	0400	1730	C	150-360	12
4	0350	1400	B	150-360	15
6	0350	2000	B	150-360	15
7	0140	1110	C	150-360	12
11	0230	1230	C	150-360	10
12	0002	1115	B	150-360	20
13	0410	1130	C	150-360	12
14	0205	1420	B	150-360	15
15	0050	1735	B	150-360	18
17	0700	1600	B	150-360	15
19	0125	1540	B	150-360	20
20	0335	1345	B	150-360	22
28	1000	1805	B	150-360	15
29	0645	1400	C	150-360	8

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden commencements (SC):

None.

PULSATATIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
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pc 4:

2	1815	2355	C	45-150	7
13	0055	0835	C	45-150	8
19	0325	1205	C	45-150	7
26	0410	1832	B	45-150	10
27	0010	0930	C	45-150	8

pc 5:

3	0540	1420	C	150-360	15
5	0300	1610	C	150-360	12
7	0445	1945	B	150-360	10
13	0840	1605	C	150-360	10
14	0500	1910	B	150-360	15
15	0125	1245	B	150-360	12
16	0015	1405	B	150-360	25
18	0400	1610	B	150-360	15
29	0415	1948	B	150-360	18

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden commencements (SC):

		X	Y	Z
16 Jul 06:01UT	SSC A			
	00.7 ±.2	-40	+3	+4
	01.5 ±.2	+92	-117	-28

PULSATATIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
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pc 4:

1	0145	1200	B	45-150	8
10	0335	1150	B	45-150	12
11	0015	1100	B	45-150	10
12	0600	1340	C	45-150	6
17	0400	1415	B	45-150	15
23	0400	1720	B	45-150	10
25	0220	1155	B	45-150	8
26	0225	1830	B	45-150	15
27	0105	1645	B	45-150	7

pc 5:

2	0330	1655	B	150-360	20
11	1112	1540	C	150-360	10
15	0210	0845	C	150-360	8
20	0520	1800	C	150-360	8
21	0420	1700	B	150-360	15
22	0040	1530	B	150-360	15
24	0315	1355	B	150-360	20
25	1155	1705	B	150-360	15

SPECIAL GEOMAGNETIC EVENTS
 Normal magnetograms

Sudden commencements (SC):

		X	Y	Z
03 Aug 10:44 UT	SSC A			
	43.8 ±.2	+1	-6	-2
	44.2 ±.2	+4	+21	+4
29 Aug 16:51 UT	ssc* B			
	50.5 ±.2	-2	+1	0
	51.4 ±.2	-6	-3	-1
	52.0 ±.2	+36	-6	-2

PULSATATIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
pc 4:					
3	0410	1545	B	45-150	8
7	0435	1810	B	45-150	15
8	0002	1635	B	45-150	10
10	0600	1700	B	45-150	7
12	0212	1015	B	45-150	10
22	0400	1740	B	45-150	9
23	0420	1200	B	45-150	8
24	0205	1455	B	45-150	9
25	0300	1725	B	45-150	8
30	0200	0835	B	45-150	8
pc 5:					
1	0815	1700	C	150-360	12
2	0020	1405	C	150-360	10
4	0035	1000	B	150-360	15
5	0155	1535	B	150-360	20
6	0330	1535	B	150-360	18
9	0530	1655	C	150-360	9
13	0405	1540	B	150-360	12
17	0235	1800	B	150-360	15
18	0230	1405	B	150-360	15
19	0255	1555	B	150-360	25
20	0410	1550	B	150-360	25
21	0335	1635	B	150-360	15
27	1005	1845	C	150-360	12
31	0345	1830	B	150-360	40

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden commencements (SC):

		X	Y	Z
14 Sep 11:15 UT	ssc* B			
	15.5 ±.2	+6	-5	-4
	16.5 ±.2	-13	-2	-2

PULSATATIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
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pc 4:

6	0630	1515	C	45-150	8
10	0900	1430	C	45-150	7
12	0245	1405	B	45-150	8
17	0130	1000	B	45-150	20
19	0005	1750	B	45-150	8
20	0600	1745	C	45-150	8
25	0725	1200	B	45-150	15

pc 5:

1	0445	1255	B	150-360	18
2	0315	1555	B	150-360	20
5	0335	0750	B	150-360	18
7	0002	1045	B	150-360	15
8	0445	1125	B	150-360	35
11	0200	1535	B	150-360	25
13	0200	2000	B	150-360	30
14	0420	1355	C	150-360	12
15	0200	1610	B	150-360	25
16	0530	1600	B	150-360	20
18	0305	1340	B	150-360	25
21	0735	1510	C	150-360	15
27	0515	1000	B	150-360	15
28	0830	1425	B	150-360	25
29	0400	1600	B	150-360	20
30	0210	1445	C	150-360	12

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden commencements (SC):

		X	Y	Z
21 Oct 06:10 UT	ssc* B			
	10.2 ±.2	+13	+3	+2
	10.5 ±.2	-20	-13	-5
24 Oct 08:12 UT	ssc* B			
	12.7 ±.2	+3	-5	-1
	10.5 ±.2	-5	-3	-1
24 Oct 08:30 UT	ssc* C			
	30.3 ±.2	-2	+1	+1
	31.0 ±.2	+1	-10	+4

PULSATIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
-----	-------	-----	------	--------	-----------------

pc 4:

1	0605	1525	C	45-150	7
6	0200	0905	B	45-150	9
13	0350	1230	B	45-150	10
16	0800	1915	B	45-150	9
20	0315	1200	C	45-150	8
21	0610	1730	C	45-150	8
23	0835	1945	B	45-150	6
26	0025	1200	B	45-150	9
27	0300	1715	B	45-150	9
28	0005	1135	C	45-150	8

pc 5:

11	0425	0910	C	150-360	12
12	0145	1140	B	150-360	20
14	0300	1430	B	150-360	40
15	0500	1010	B	150-360	20
25	0330	1500	B	150-360	35

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden commencements (SC):

None.

PULSATATIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
-----	-------	-----	------	--------	-----------------

pc 4:

11	0320	1720	B	45-150	12
16	0330	1000	B	45-150	12
17	0445	1600	B	45-150	8
18	0055	1550	B	45-150	10
20	0025	1845	B	45-150	8
22	0005	1205	B	45-150	12
30	0310	1200	B	45-150	9

pc 5:

2	0600	1600	C	150-360	10
7	0430	1000	C	150-360	12
8	0445	1155	B	150-360	35
9	0120	1400	B	150-360	18
10	0220	1355	B	150-360	35
15	0940	1645	C	150-360	15
19	0750	1600	C	150-360	10
21	0405	1525	B	150-360	25

SPECIAL GEOMAGNETIC EVENTS
Normal magnetograms

Sudden commencements (SC):

		X	Y	Z
04 Dec	05:45 UT			
		SSC A		
	45.0 ±.2	+2	+2	+1
	45.5 ±.2	-8	-4	-2

PULSATATIONS

from normal recordings:

Day	Onset	End	Qual	Period	Amplitude nT
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pc 4:

7	0405	1245	B	45-150	9
8	0455	1600	B	45-150	8
9	0245	2045	B	45-150	8
11	0315	1225	B	45-150	8
12	0425	1750	B	45-150	12
19	0215	1200	C	45-150	7
20	0455	1725	B	45-150	8
21	0115	1940	C	45-150	7
23	0345	1400	B	45-150	8
25	0230	1145	C	45-150	7
26	0400	1930	C	45-150	7

pc 5:

5	0325	1350	B	150-360	15
6	0310	1200	B	150-360	15
17	0150	1520	B	150-360	15
18	0245	1705	B	150-360	20
19	1210	1500	C	150-360	18
24	0400	1400	B	150-360	12