International Seismological Centre

SERVIÇO METEOROLÓGICO DE ANGOLA
CENTRO GEOFÍSICO DE BELAS

LUANDA

φ = 8° 55' S; λ = 13° 10' E; h= 53 m ϕ = 7° 11'S; Λ = 80° 33' E

MARCH 1979
Geomagnetic Bulletin
LUANDA

Scale values of the Askania variometers:
e_D = 3,6 γ/mm; e_H = 3,5 γ/mm; e_Z = 3,4 γ/mm
Time scale of variometers: 20 mm/h.
Range for K = 9;350

INDICES OF GEOMAGNETIC ACTIVITY

GR DAY 1979	K - Indices for three-hour interval										Char. FU D'Y
	00 h 03 h	03 h 06 h	06 h 09 h	09 h 12 h	12 h 15 h	15 h 18 h	18 h 21 h	21 h 24 h	SUM h		
1	2	1	2	1	-	3	2	2	-		-
2	2	2	1	1	3	3	-	-	-		-
3	-	-	-	-	-	-	-	-	-		-
4	-	-	-	-	-	-	-	-	-		-
5	-	-	-	-	-	-	-	-	-		-
6	-	-	-	-	-	-	-	-	-		-
7	-	-	-	-	-	-	-	-	-		-
8	-	-	-	-	-	-	-	-	-		-
9	-	-	-	-	-	-	-	-	-		-
10	-	-	-	-	-	-	-	-	-		-
11	-	-	-	-	-	-	-	-	-		-
12	-	-	-	-	-	-	-	-	-		-
13	-	-	-	-	-	-	2	2	-		-
14	1	2	1	1	2	-	-	-	-		-
15	-	-	-	-	-	-	-	-	-		-
16	-	-	-	2	3	1	1	0	-		-
17	2	2	4	3	1	1	-	-	-		-
18	-	-	-	-	-	-	-	-	-		-
19	-	-	-	-	-	-	-	-	-		-
20	-	-	-	-	-	-	-	-	-		-
21	-	-	-	-	-	-	-	-	-		-
22	-	-	-	-	-	-	-	-	-		-
23	-	-	-	-	-	-	-	-	-		-
24	-	-	-	2	5	4	3	3	-		-
25	2	1	2	3	3	4	4	3	22		1
26	2	2	2	-	-	-	-	-	-		-
27	-	-	-	-	-	-	-	-	-		-
28	-	-	-	4	3	3	3	4	-		-
29	4	3	4	4	4	-	6	5	-		-
30	5	4	4	4	3	3	2	-	-		-
31	1	2	1	2	2	3	3	3	17		1

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MARCH 1974

DAY	DALY MEAN D	H	Z
1	-09° 31,0	23 249	-22 733
2	30,2	271	736
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14	09° 31,7	23 293	-22 729
15	-	-	-
16	09° 29,8	23 309	-22 746
17	31,3	293	745
18			
19			
20			
21			
22			
23			
24	-09° 29,9	23 242	22 732
25	30,2	241	734
26			
27			
28			
29	-09° 29,8	23 200	22 737
30	29,9	224	739
31	31,3	246	739

SUDDEN COMMENCEMENTS AND BAYS DAY	TIME (GMT)	TYPE	Quality A.B.C.	Sense of chief Movement D H Z
01	00 18	bp	A	+ +
17	02 30	ssc	A	- + -
26	08 06	ssc	A	- + -
31	21 58	ssc	B	- + -

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pi , pc

Day	TIME (GMT) Begin	End	TYPE	QUALITI A,B,C	LARGEST OSCILLATIONS Period	Range	REMARKS
02	00 00	00 48	pc_4	A			
13	21 23	21 36	pi_2	A			
31	02 59	03 09	pi_2	B			

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CENTRO GEOFÍSICO DE BELAS
L U A N D A

φ = 8º 55' S; λ = 13º 10'E; h= 53 ϕ = 7º 11'S; Λ = 80º 33' E

APRIL 1979

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LUANDA (LUA)

Scale values of the Askania variometers:
e_D = 3,6 γ/mm; e_H = 3,5 γ/mm; e_Z = 3,4 γ/mm

Time scale of variometers: 20 mm/h.

Range for K = 9; 350 γ

INDICES OF GEOMAGNETIC ACTIVITY

GR DAY 1979	K - Indices for three-hour interval										Char. 0.1.2
	00h-03h	03h-06h	06h-09h	09h-12h	12h-15h	15h-18h	18h-21h	21h-24h	SUM		FULL DAY
1	2	2	2	2	4	3	3	4	22		1
2	4	3	2	2	3	3	3	2	22		1
3	2	2	2	2	3	5	6	6	28		2
4	5	5	5	5	5	4	4	4	37		2
5	3	2	3	3	6	4	4	3	28		2
6	1	1	2	2	3	3	1	2	15		1
7	0	2	1	1	2	2	2	2	12		1
8	0	1	1	1	1	1	3	2	10		0
9	2	1	1	2	2	2	1	2	13		1
10	2	1	1	1	3	3	2	2	15		1
11	2	2	2	1	2	-	1	1	-		-
12	1	1	2	3	2	-	2	3	-		-
13	1	1	0	1	2	3	2	1	11		1
14	1	2	1	2	2	3	3	1	15		1
15	3	2	1	2	2	3	1	1	15		1
16	2	3	2	1	3	2	2	1	16		1
17	1	0	1	2	1	2	2	1	10		0
18	1	1	1	0	2	1	1	1	8		0
19	1	1	1	1	2	3	2	1	12		1
20	1	0	0	2	1	1	0	0	5		0
21	0	0	1	3	4	4	3	4	19		1
22	3	1	2	4	3	4	4	4	25		2
23	3	2	2	3	3	3	2	1	19		1
24	2	2	1	1	2	2	1	1	12		1
25	5	3	5	5	6	5	-	3	-		-
26	1	1	2	2	1	2	2	1	12		1
27	3	3	1	1	3	5	5	4	25		2
28	2	2	3	3	3	3	3	2	21		1
29	3	3	3	2	3	3	3	4	24		2
30	2	2	2	2	3	2	2	2	17		1

APRIL 1979

DAY	DAILY MEAN		
	D	H	Z
11	-09° 30;4	23 237	-22 756
2	30,6	214	752
3	31,4	166	754
4	28,5	221	753
5	30,4	260	748
6	29,6	251	748
7	30,6	269	748
8	31,1	277	752
9	31-1	272	745
10	30,7	277	745
11	31,4	290	746
12	29,8	295	750
13	30,1	290	748
14	30,7	285	753
15	31,2	282	751
16	30,5	271	752
17	30,4	278	754
18	30,2	279	755
19	30,3	287	755
20	30,3	292	757
21	30,4	273	759
22	29,7	224	758
23	29,2	236	754
24	29,8	256	753
25	29,0	184	758
26	29,0	234	754
27	29,9	233	754
28	29,8	230	758
29	29,3	232	759
30	29,5	245	755

SUDDEN COMMENCEMENTS AND BAYS				
DAY	TIME (GMT)	TYPE	Quality A.B.C.	Sense of chiel Movement D H Z
01	21 58	ssc	B	- + -
03	10 05	ssc	A	- + -
05	01 54	ssc	A	- + -
05	10 36	si	B	- - +
23	23 03	bp	A	+ + -
17	00 33	bps	A	+ + -
17	22 41	bp	B	+ +
19	23 27	bp	A	+ + -
24	00 21	bp	A	+ + -
25	00 00	ssc	A	+ + -
26	21 33	bp	A	- + -

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pi, pc

DAY	TIME (GMT)		TYPE	QUALITY A,B,C	LARGEST OSCILLATIONS		REMARKS
	Begin	End			Period	Range	
05	22 21	22 55	pc_4	B			
08	10 30	15 43	pc_4	A			
10	20 02	21 27	pc_4	A			
14	00 06	00 23	pi_2	B			
14	05 52	07 59	pc_4	A			
15	20 04	21 40	pc_4	B			
16	07 14	07 22	pi_2	B			
18	19 12	19 39	pi_4	A			
19	23 27	23 44	pi_2	A			
20	03 13	11 50	pc_4	A			
20	20 30	20 59	pi_2	A			
21	20 24	20 47	pi_2	A			
24	20 02	20 07	pi_2	A			
30	10 29	10 38	pi_2	A			

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CENTRO GEOFÍSICO DE BELAS

L U A N D A

φ = 8° 55' S; λ = 13° 10'E; h = 53 ϕ = 7° 11'S; Λ = 80° 33' E

SEPTEMBER 1979

Geomagnetic Bulletin

LUANDA (LUA)

Scale values of the Askania variometers::

e_D = 3,6 γ/mm; e_H = 3,5 γ/mm; e_Z = 3,4 γ/mm

Time scale of variometers: 20 mm/h.

Range for k = 9;350 γ

INDICES OF GEOMAGNETIC ACTIVITY

GR DAY 1979	K- Indices for three -hour interval								SUM		Char. 0.1.2 FULL DAY
	00h 03h	03h 06h	06h 09h	09h 12h	12h 15h	15h 18h	18h 21h	21h 24h			
1	1	1	1	1	3	4	3	2	16		1
2	1	1	1	2	1	1	1	1	9		0
3	1	1	1	1	2	2	2	1	11		1
4	1	1	-	-	2	2	1	1	-		-
5	1	2	1	1	3	3	3	2	16		1
6	2	2	1	1	2	3	1	1	13		1
7	1	2	1	0	1	2	1	1	9		0
8	1	0	0	1	2	2	1	1	8		0
9	1	1	1	0	1	1	1	1	7		0
10	2	0	1	1	2	3	3	3	17		
11	0	1	1	1	3	3	3	2	14		1
12	0	0	1	0	1	1	1	2	6		0
13	0	0	1	1	1	1	0	1	5		0
14	0	1	0	1	2	2	4	4	14		1
15	1	1	1	2	3	2	1	1	12		1
16	1	0	2	2	2	3	2	3	15		1
17	0	0	1	2	1	1	0	1	6		0
18	4	4	5	5	5	6	4	3	36		2
19	2	1	1	0	2	2	2	2	12		1
20	1	1	1	4	5	5	4	4	25		2
21	4	3	2	1	3	3	3	2	21		1
22	1	0	0	1	3	2	1	1	9		0
23	1	1	-	0	3	3	1	0	-		-
24	0	1	-	1	3	1	2	3	-		-
25	3	1	1	0	2	4	4	3	18		1
26	2	2	1	1	3	3	4	3	19		1
27	2	2	1	1	3	3	3	3	18		1
28	2	2	2	0	3	4	3	3	19		1
29	1	1	1	1	3	3	3	2	15		1
30	2	2	2	2	3	3	2	2	18		1

SEPTEMBER 1979

DAY	DAILY MEAN		
	D	H	Z
1	-09° 26,6	23 248	-22 766
2	26,2	251	768
3	26,2	250	767
4	26,6	254	766
5	25,9	250	766
6	26,1	249	771
7	26,9	249	771
8	26,3	262	774
9	26,1	261	768
10	26,7	253	772
11	26,5	239	775
12	25,9	267	778
13	26,1	266	772
14	26,0	270	772
15	27,1	266	765
16	26,5	268	771
17	25,7	277	770
18	25,0	163	781
19	25,3	208	776
20	26,1	226	769
21	26,0	227	776
22	26,0	252	776
23	26,0	255	770
24	25,5	241	773
25	25,3	228	778
26	26,2	231	776
27	25,1	240	776
28	24,4	222	774
29	24,6	238	774
30	25,0	241	770

SUDDEN COMMENCEMENTS AND BAYS					
DAY	TIME (GMT)	TYPE	Quality A.B.C.	Sense of chief MO-vement D H Z	
01	01 25	bp	B	- + -	
06	01 36	bp	A	+ + +	
11	15	bs	A	- + -	
13	13 15	b	B	- + +	
13	21 46	bp	A	- + -	
18	05 55	si	A	- + -	
18	18 40	bs	A	+ + -	
21	00 30	ssc	B	- + -	
21	19 00	bs	B	+ - +	

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SEPTEMBER 1979

pi , pc							
DAY	TIME (GMT)		TYPE	QUALITY A,B,C	LARGEST OSCILLATIONS		REMARKS
	Begin	End			Period	Range	
07	00h 35m	01h35m	pc_4	A			
07	20 33	20 44	pi_1	A			
08	19 43	20 00	pi_2	A			
11	23 44	24 00	pi_2	A			
13	20 19	21 2.	pc_4	B			
13	21 46	22 00	pi_2	B			
15	23 10	23 21	pi_1	A			
16	00 21	00 35	pi_2	A			
17	06 15	07 18	pc_4	A			
20	22 12	22 20	pi_1	A			
22	01 33	01 45	pi_2	A			
24	03 00	04 50	pc_4	B			
29	03 09	05 12	pc4	A			

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CENTRO GEOFÍSICO DE BELAS

L U A N D A

φ = 8° 55' S; λ = 13° 10'E; h= 53m Φ = 7° 11'S; Λ = 80° 33' E

OCTOBER 1979

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LUANDA (BUA)

Scale values of the Askania variometers:

e_D = 3,6 γ/mm; e_H = 3,5 γ/mm; e_Z = 3,4 γ/mm

Time scale of variometers: 20 mm/h.

Range for K = 9; 350 γ

INDICES OF GEOMAGNETIC ACTIVITY

GR DAY 1979	K- Indices for three - hour interval										Char. 0. 1.2
	00h-03h	03h-06h	06h-09h	09h-12h	12h-15h	15h-18h	18h-21h	21h-24h	SUM		FULL DAY
1	2	2	2	-	3	3	2	2	-		-
2	1	1	1	0	-	3	3	2	-		-
3	1	1	-	-	3	4	3	2	-		-
4	1	0	2	2	2	2	2	2	13		1
5	0	0	0	1	3	4	4	3	15		1
6	1	1	2	-	5	5	4	3	-		-
7	3	2	3	2	4	5	4	4	27		2
8	4	2	3	2	2	4	4	3	24		1
9	2	1	1	1	3	4	4	3	19		1
10	2	2	3	-	3	1	2	2	-		-
11	2	1	1	1	1	2	1	1	10		0
12	1	1	1	1	1	3	3	2	13		1
13	0	1	1	2	3	3	3	1	14		1
14	1	2	2	2	1	3	3	2	16		1
15	0	1	0	1	3	4	3	3	15		1
16	1	1	1	2	2	2	2	1	12		1
17	2	2	2	1	2	2	1	1	13		1
18	0	1	1	0	2	1	0	1	6		0
19	0	0	1	-	2	1	1	2	-		-
20	1	1	1	2	1	2	1	1	10		0
21	2	2	-	-	2	3	3	2	-		-
22	2	1	2	1	2	2	2	2	14		1
23	1	1	1	1	3	3	1	2	13		1
24	2	1	0	2	3	3	2	0	13		1
25	1	1	1	2	3	3	3	3	17		1
26	1	1	0	1	2	2	0	1	8		0
27	1	1	0	1	1	1	1	1	7		0
28	1	1	1	2	3	2	1	1	12		1
29	1	1	1	1	1	2	2	2	11		1
30	1	1	1	1	1	1	0	0	6		0
31	1	1	2	-	2	2	2	1	-		-

OCTOBER 1 9 7 9

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DAY	DAILY MEAN		
	D	H	Z
1	-09° 24,9	23 246	-22 775
2	25,5	246	772
3	25,6	248	772
4	26,1	260	774
5	25,4	258	774
6	24,9	225	776
7	24,6	218	776
8	24,9	206	775
9	24,8	214	772
10	24,9	228	771
11	24,9	242	775
12	25,5	242	778
13	24,6	252	780
14	25,6	261	776
15	24,9	248	780
16	26,4	252	776
17	25,4	262	778
18	25,5	266	784
19	25,8	270	778
20	26,7	260	783
21	25,2	236	783
22	25,3	233	769
23	25,4	244	781
24	24,9	246	776
25	24,9	230	780
26	25,0	244	778
27	25,7	260	777
28	24,7	239	781
29	25,6	224	782
30	25,2	255	790
31	25,2	268	785

SUDDEN COMMENCEMENTS AND BAYS					
DAY	TIME (G.T)	TYPE	Quality A. B. C.	Sense of chief Movement	
				D H Z	
04	08h 49m	SSC	A	- + -	
06	10 18	ssc	A	+ + -	
07	11 39	si	A	+ + -	
08	20 45	b	B	- + -	
20	16 17	b	B	- + -	
26	03 37	bp	A	- + -	
29	23 10	bp	B	+ +	

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pi, pc

DAY	TIME (GMT) Begin	TIME (GMT) End	TYPE	QUALITY A,B, C	LARGEST OSCILATIONS Period	LARGEST OSCILATIONS Range	REMARKS
05	19 22	19 39	Pi_2	A			
10	21 48	22 18	Pc_4	B			
13	10 53	14 11	Pc_4	A			
17	21 20	22 24	Pc_4	B			
19	22 31	22 59	Pc_4	A			
20	19 45	21 06	Pc_4	A			
21	21 20	21 36	Pi_2	A			
22	00 48	01 58	Pc_4	B			
22	16 46	16 58	Pi2	A			
26	20 05	21 06	Pc_4	A			
26	21 50	22 12	Pi2	A			