

SERVICO METEOROLOGICO DE ANGOLA

= Observatório Geofísico =

L U A N D A

$\phi = 8^{\circ} 55' S$; $\lambda = 13^{\circ} 10' E$; $h = 53$ m $\phi = 7^{\circ} 11' S$; $\lambda = 80^{\circ} 33' E$

JANUARY 1975

Geomagnetic Bulletin

L U A N D A

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	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	
1	0	1	1	1	0	0	1	0	4	0
2	0	0	0	1	0	0	0	0	1	0
3	1	1	2	1	1	1	1	1	9	0
4	3	1	2	3	4	5	3	2	23	2
5	2	1	2	2	3	3	3	3	19	1
6	1	0	1	2	3	3	4	4	18	1
7	5	4	4	3	3	3	2	3	27	2
8	3	3	4	4	4	4	5	2	29	2
9	-	-	-	3	3	1	1	0	-	-
10	0	0	1	2	1	1	1	0	6	0
11	0	0	0	2	2	2	1	0	7	0
12	0	0	0	1	0	1	2	2	6	0
13	2	3	3	3	2	3	3	2	21	1
14	2	2	2	3	4	3	2	1	19	1
15	1	1	2	2	1	2	3	4	16	1
16	1	1	2	2	4	3	4	4	21	1
17	2	1	3	2	3	3	3	2	19	1
18	2	1	2	2	3	2	3	2	17	1
19	2	2	1	2	1	1	1	1	11	1
20	2	1	3	3	1	1	1	1	13	1
21	1	1	1	1	2	1	1	0	8	0
22	0	0	1	0	1	1	1	1	5	0
23	2	2	2	2	2	3	2	1	16	1
24	2	2	2	2	1	2	1	0	12	1
25	0	1	1	0	2	2	2	1	9	0
26	1	0	0	0	0	0	1	1	3	0
27	1	1	2	2	2	3	2	1	14	1
28	3	2	1	1	1	1	1	0	10	0
29	1	1	0	1	2	1	1	0	7	0
30	1	1	1	2	1	1	2	1	10	0
31	1	1	1	2	2	4	3	3	17	1

Pi, Pe							
DAY	TIME (GMT)		TYPE	QUALITY A, B, C	LARGEST OSCILLATIONS		REMARKS
	Begin	End			Period	Range	
	b	m	b	m			
02	18	45	18	57	PC ₄	B	
02	19	30	19	51	PC ₄	B	
03	15	54	16	06	PC ₄	B	
03	23	00	23	24	PC ₃	A	
04	08	54	09	44	PC ₄	A	
09	09	36	10	28	PC ₄	A	
11	17	42	18	09	PC ₅	B	
13	01	15	01	48	PC ₄	A	
20	01	03	01	15	PC ₄	A	
20	01	35	01	45	Pi ₂	B	
20	16	59	17	10	Pi ₂	B	
22	14	14	14	21	Pi ₂	B	
22	14	21	14	34	PC ₅	B	
22	16	42	16	53	Pi ₂	B	
23	19	54	20	15	PC ₄	B	
25/26	23	51	00	06	Pi ₂	A	
30	19	17	19	36	PC ₄	B	

SERVICÓ METEOROLÓGICO DE ANGOLA

CENTRO GEOFÍSICO DE BELAS

LUANDA

$\lambda = 8^{\circ} 55' S$; $\lambda = 13^{\circ} 10' E$; $h = 53m$ $\phi = 7^{\circ} 11' S$; $\Lambda = 80^{\circ} 33' E$

February 1975

Geomagnetic Bulletin

LUANDA

Scale values of the Askania variometers:

$e_D = 3,6 \gamma/mm$; $e_H = 3,5 \gamma/mm$; $e_Z = 3,4 \gamma/mm$

Time scale of variometers: 20 mm/h.

Range for K = 9;350 γ

INDICES OF GEOMAGNETIC ACTIVITY

GR	K - Indices for three-hour interval									Char. 0.1.2
DAY	00 ^{h-}	03 ^{h-}	06 ^{h-}	09 ^{h-}	12 ^{h-}	15 ^{h-}	18 ^{h-}	21 ^{h-}		
1975	03 ^h	06 ^h	09 ^h	12 ^h	15 ^h	18 ^h	21 ^h	24 ^h	SUM	FULL DAY
1	2	2	2	4	4	4	4	4	26	2
2	4	2	3	3	3	2	3	2	22	2
3	1	2	1	1	3	2	1	0	11	1
4	0	0	0	1	3	2	1	1	08	0
5	2	0	1	2	2	2	1	2	12	1
6	1	1	0	1	0	1	2	2	08	0
7	2	2	1	2	1	3	3	1	15	1
8	1	1	1	2	1	2	0	2	10	0
9	2	0	-	2	2	1	2	2	-	-
10	2	2	2	2	2	3	3	4	20	1
11	4	3	2	2	1	3	4	3	22	1
12	2	1	1	3	2	3	2	2	16	1
13	3	0	1	2	3	2	4	1	16	1
14	2	1	2	2	1	3	4	3	18	1
15	1	1	1	2	3	3	3	3	17	1
16	2	1	2	3	2	4	2	4	20	1
17	2	0	2	2	2	1	1	1	11	1
18	1	2	1	1	2	2	2	1	12	1
19	1	2	1	2	2	1	1	2	12	1
20	2	1	2	1	2	1	1	1	11	1
21	1	0	0	1	1	2	1	2	08	0
22	2	2	1	2	2	2	2	1	14	1
23	2	1	4	5	5	4	2	2	25	2
24	2	1	1	2	3	3	2	2	16	1
25	2	2	2	2	3	1	1	1	14	1
26	2	2	1	2	2	0	0	0	8	0
27	0	0	0	0	1	1	0	0	2	0
28	1	1	0	0	0	2	4	2	10	0

DAILY MEAN

DAY	D		H		Z
	D	H	D	H	Z
1	-10 ⁰	09' 1	23	483 ^Y	-22 506 ^Y
2		090		488	507
3		092		498	508
4		093		505	508
5		094		514	510
6		088		499	510
7		088		487	509
8		087		503	507
9		086		492	504
10		088		476	512
11		088		483	514
12		086		469	516
13		086		482	514
14		087		480	512
15		090		486	515
16		088		478	517
17		084		487	518
18		086		488	520
19		082		496	522
20		089		504	524
21		085		504	523
22		082		505	524
23		083		478	526
24		086		488	524
25		087		487	523
26		094		500	523
27		087		505	524
28		085		506	521

SUDDEN COMMENCEMENTS AND BAYS

DAY	TIME (GMT)	TYPE	QUALITY A.B.C.	Sense of Chief Mo- vement		
				D	H	Z
01	00 ^h 22 ^m	ssc*	B	-	-	-
01	23 24	si	A		+	
05	20 53	bp	A	+	+	+
09	01 25	bp	A		+	+
10	21 24	si	B	+	+	-
11	17 48	si	A	+	+	-
13	19 53	si	A	-	+	-
14	20 42	si	A	-	+	-
16	23 09	b	B		+	
23	08 27	ssc	B	-	+	-
24	21 04	bp	B		+	

, pi, pc									
DAY	TIME (GMT)				TYPE	QUALITY A, B, C	LARGEST OSCILLATIONS		REMARKS
	Begin		End				Period	Range	
	H	m	h	m					
04	21	26	21	30	Pi2	B			
06	15	51	16	21	Pc4	B			
06	20	09	20	20	Pi2	A			
06	20	54	21	06	Pi2	A			
10	20	53	21	04	Pc4	A			
10	21	25	21	28	Pi2	B			
16	14	54	15	06	Pi2	B			
19	22	18	22	30	Pi2	A			
19	22	34	23	00	Pi2	B			
20	21	31	21	59	Pc4	B			
22	01	17	01	34	Pi2	A			
22	02	01	02	09	Pi2	A			
22	13	08	13	23	Pc4	A			
23	01	08	01	15	Pi2	B			
24	14	31	14	51	Pi2	A			
27	22	01	22	15	Pc4	B			
28	00	45	00	52	Pi ²	A			
28	01	20	01	36	Pc4	A			
28	04	20	04	31	Pi ²	B			

SERVIÇO METEOROLÓGICO DE ANGOLA

CENTRO GEOFÍSICO DE BELAS

L U A N D A



International
Seismological
Centre

$\phi = 8^{\circ} 55' S$; $\lambda = 13^{\circ} 10' E$; $h = 53 \text{ m}$ $\phi = 7^{\circ} 11' S$; $\lambda = 80^{\circ} 33' E$

MARCH 1975

Geomagnetic Bulletin

LUANDA

Scale values of the Askania variometers:

$e_D = 3,6 \text{ } \mu\text{/mm}$; $e_H = 3,5 \text{ } \mu\text{/mm}$; $e_Z = 3,4 \text{ } \mu\text{/mm}$

Time scale of variometers: 20 mm/h.

Range for K = 9;350

INDICES OF GEOMAGNETIC ACTIVITY

GR DAY 1975	K - Indices for three-hour interval									Char. 0.1.2
	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	FULL DAY
1	2	1	1	2	1	1	0	1	9	0
2	0	0	0	1	1	0	1	1	4	0
3	1	2	2	0	1	0	1	1	8	0
4	1	1	1	0	1	1	0	0	5	0
5	1	0	0	1	1	1	1	0	5	0
6	2	0	1	1	0	2	2	2	10	0
7	1	2	2	2	3	1	4	4	19	1
8	1	1	0	1	3	3	3	1	13	1
9	3	1	2	2	3	3	3	4	21	1
10	2	2	2	2	2	2	2	3	17	1
11	3	2	3	3	3	3	1	1	19	1
12	0	0	0	3	2	2	1	3	11	1
13	1	0	2	0	1	0	1	3	8	0
14	2	2	0	0	0	0	1	2	7	0
15	0	1	0	0	0	1	2	1	5	0
16	0	0	1	1	0	1	1	1	5	0
17	1	1	0	1	2	2	0	0	7	0
18	0	0	0	0	2	2	1	1	6	0
19	1	2	2	0	0	1	1	0	7	0
20	0	0	1	2	1	3	6	5	18	1
21	3	0	2	3	0	3	2	0	13	1
22	1	1	2	3	3	1	0	2	13	1
23	2	1	1	2	1	4	3	1	15	1
24	2	1	1	1	2	2	1	0	10	0
25	2	1	0	0	2	2	0	0	7	0
26	3	0	0	2	1	0	0	1	7	0
27	1	0	1	1	0	0	0	1	4	0
28	1	0	0	0	1	1	1	0	4	0
29	1	0	0	1	1	1	0	0	4	0
30	0	0	0	2	0	1	0	0	3	0
31	2	1	1	1	2	1	1	1	10	0



DAILY MEAN

DAY	D		H		Z	
1	-10	08,9	23	484	-22	511
2		08,4		491		508
3		08,5		500		511
4		08,7		501		510
5		08,2		474		511
6		08,2		476		515
7		09,0		492		512
8		07,6		507		511
9		08,2		506		514
10		07,3		431		520
11		08,1		448		525
12		09,2		454		526
13		08,3		466		527
14		07,9		472		526
15		08,8		470		524
16		08,2		472		527
17		08,4		482		527
18		08,5		473		529
19		07,3		487		533
20		08,4		489		536
21		08,2		499		534
22		08,0		507		527
23		07,9		484		526
24		08,1		495		525
25		07,8		501		527
26		08,1		498		526
27		07,7		461		527
28		07,6		465		526
29		07,9		475		526
30		07,7		488		525
31		07,6		488		528

SUDDEN COMMENCEMENTS AND BAYS

DAY	TIME (GMT)	TYPE	Quality A.B.C.	Sense of chief Movement		
				D	H	Z
01	21 ^h 30 ^m	si	B		+	-
05	17 00	si	B	-	+	-
10	11 40	si	B	+	-	+
10	18 30	si	A	+	+	-
10	22 39	si	A	+	+	-
12	20 10	si	B	-	+	-
13	18 23	si	A	-	+	-
14	22 36	bs	A	+	+	-
16	22 53	bps	A		+	-
17	23 07	bp	A	-	+	-
18	15 58	b	B	-	-	
19	21 27	bp	A	-	+	-
20	20 14	bp	A		+	-
22	10 11	si	B	-	-	+
22	23 44	si	B	+	+	+
23	22 06	ssc	A		+	
24	16 41	si	B	+	+	+
27	14 12	ssc	A	-	+	-
30	00 26	bp	A	+	+	+
30	23 56	bp	A	-	+	-



pi, pc									
DAY	TIME (GMT)				TYPE	QUALITY A.B.C.	LARGEST OSCILLATIONS		REMARKS
	Begin		End				Period	Range	
	h	m	h	m					
01	01	56	02	22	pi2	A			
02	12	55	16	38	pc4	B			
02	22	20	22	29	pi2	A			
03	14	15	14	43	pi2	A			
04	18	24	18	33	pi2	A			
09	19	48	20	11	pc4	B			
09	22	52	23	02	pi2	A			
10	08	21	08	27	pi2	A			
14	14	23	15	15	pc4	A			
14	17	14	18	52	pc4	B			
17	05	56	06	09	pi2	A			
19	21	16	16	24	pc4	B			
20	21	10	21	24	pc4	A			
22	23	43	23	59	pi2	B			
25	21	20	21	30	pi2	A			
26	02	32	02	53	pc4	A			
26	03	03	03	17	pc4	A			
26	23	40	23	52	pi2	A			
27	00	22	00	32	pi2	A			

SERVICO METEOROLÓGICO DE ANGOLA

CENTRO GEOFÍSICO DE BELAS

L U A N D A

$\phi = 8^{\circ} 55' S$; $\lambda = 13 10' E$; $h = 53$ $\phi = 7 11' S$; $\lambda = 80 33' E$

APRIL 1975

Geomagnetic Bulletin

L U A N D A

Scale values of the Askania variometers:

$l_D = 3,6 \text{ } \gamma/\text{mm}$; $l_H = 3,5 \text{ } \gamma/\text{mm}$; $l_Z = 3,4 \text{ } \gamma/\text{mm}$

Time scale of variometers: 20 mm/h.

Range for K = 9;350 γ

INDICES OF GEOMAGNETIC ACTIVITY

GR DAY 1975	K - Indices for three-hour interval									Char. 0.1.2
	h- 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	SUM	
1	1	1	1	2	1	1	0	1	8	0
2	0	0	1	1	1	1	1	1	6	0
3	2	2	2	1	1	0	1	1	10	0
4	1	0	1	0	1	1	1	1	6	0
5	2	1	0	1	2	2	2	1	11	1
6	2	1	1	1	1	2	3	3	14	1
7	2	2	2	3	3	2	4	4	22	2
8	2	2	1	2	3	3	3	1	17	1
9	3	2	3	3	3	4	4	5	27	2
10	3	2	2	2	2	3	2	4	20	1
11	3	2	3	3	4	3	2	2	22	2
12	1	1	2	3	2	2	2	4	17	1
13	2	2	3	1	2	1	2	3	16	1
14	3	3	1	1	1	2	1	2	14	1
15	0	1	0	0	0	1	2	1	5	0
16	1	0	1	1	0	0	0	3	6	0
17	0	0	0	1	2	2	1	1	7	0
18	1	1	1	2	2	2	1	1	11	1
19	1	2	2	0	1	2	1	1	10	0
20	0	0	1	2	2	4	5	5	19	1
21	4	1	3	4	3	3	2	1	21	1
22	2	2	1	1	1	1	1	2	11	1
23	2	1	1	3	2	4	3	2	18	1
24	2	1	1	2	2	2	1	1	12	1
25	2	1	1	0	1	2	1	1	9	0
26	3	0	0	2	2	1	1	1	10	0
27	0	0	1	1	0	0	0	1	3	0
28	1	1	0	0	0	0	0	1	3	0
29	1	0	0	1	1	0	0	0	3	0
30	0	0	1	2	0	0	0	1	4	0



DAY	DAILY MEAN					
	D	H	Z			
1	-10	08,0	23	484	-22	518
2		07,6		496		515
3		08,0		504		518
4		07,7		499		521
5		07,7		488		524
6		08,1		481		524
7		07,8		481		524
8		07,8		465		526
9		06,7		460		519
10		07,0		469		522
11		07,5		462		252
12		07,0		469		527
13		07,0		465		522
14		07,1		474		521
15		07,2		478		520
16		07,0		485		522
17		07,4		498		527
18		07,4		496		520
19		07,2		493		521
20		07,0		463		525
21		07,0		482		528
22		06,9		481		528
23		07,4		480		528
24		07,1		482		529
25		06,9		482		551
26		07,5		487		532
27		06,9		493		531
28		06,7		498		529
29		06,7		498		531
30		06,7		498		530

SUDDEN COMMENCEMENTS AND BAYS							
DAY	TIME (GMT)		TYPE	Quality A.B.C.	Spense of chief Movement		
	h	m			D	H	Z
05	00	33	bp	A	+	+	+
07	22	27	Si	A	+	+	-
09	21	18	Si	A	+	+	-
10	21	39	bs	B	+	+	-
13	22	27	Si	B	+	+	-
14	22	30	bps	B	+	+	
17	12	00	b	B	+	-	+
20	22	44	Si	A	+	+	-
21	01	27	Si	A	+	+	-
21	08	41	Ssc	B	+	-	+
22	21	57	bps	B	-	+	-
26	00	00	bps	A	+	+	-



DAY	TIME (GMT)				TYPE	pi, pc		LARGEST OSCILLATIONS	REMARKS
	Begin		End			QUALITY	A.B.C		
	Period	Range							
02	10	07	14	27	Pc 3	A			
02	18	33	18	40	pi 2	B			
02	20	58	21	25	pi 2	A			
03	14	35	14	43	Pc 4	B			
03	23	10	23	21	Pc 4	A			
04	01	03	01	24	Pi 2	A			
04	19	51	20	09	Pc 4	A			
05	11	18	12	45	Pc 4	A			
05	17	20	17	29	Pi 2	B			
06	00	54	01	08	Pi 2	B			
07	00	45	01	12	Pc 4	A			
07	05	33	05	49	Pc 4	A			
09	00	38	00	45	Pc 4	B			
13	15	22	16	00	Pc 4	B			
17	00	20	00	30	Pi 2	B			
19	04	20	04	29	Pi 2	A			
25	21	52	22	00	Pc 4	B			
25	23	53	00	00	Pi 2	B			
26	21	48	21	56	Pi 2	A			
28	01	05	01	21	Pi 2	A			

SERVICO METEOROLÓGICO DE ANGOLA

CENTRO GEOFÍSICO DE BELAS

LUANDA

$\phi = 8^{\circ} 55' S$; $\lambda = 13^{\circ} 10' E$; $h = 53 m$ $\phi = 7^{\circ} 11' S$; $\lambda = 80^{\circ} 33' E$

M A Y 1975

geomagnetic Bulletin

LUANDA

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

Time Scale of variometers: 20 mm/h.

Range for K = 9;350

INDICES OF GEOMAGNETIC ACTIVITY

GR DAY	K - Indices for three-hour interval									Char. 0.1.2
	h- 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	SUM	
19 1	0	0	2	1	2	2	2	1	10	0
2	2	1	2	2	4	3	2	2	18	1
3	2	3	3	2	3	2	2	1	18	1
4	1	1	1	1	1	0	2	1	8	0
5	2	2	1	1	2	2	2	3	15	1
6	2	2	0	3	2	1	2	2	14	1
7	2	2	1	2	3	4	1	2	17	1
8	1	1	1	2	2	2	3	3	15	1
9	3	2	2	2	3	3	1	4	20	1
10	2	3	1	1	2	2	1	1	13	1
11	1	1	0	1	1	1	0	0	5	0
12	0	1	0	1	1	1	0	0	4	0
13	1	0	0	0	1	0	1	2	5	0
14	2	2	2	2	3	3	2	1	17	1
15	0	1	1	0	1	1	0	0	4	0
16	0	3	3	3	4	3	2	3	21	1
17	0	0	2	2	4	3	2	1	14	1
18	1	1	1	2	3	2	2	1	13	1
19	3	3	2	2	2	1	3	3	19	1
20	5	4	3	3	3	3	1	0	22	2
21	1	1	0	1	2	0	2	1	8	0
22	1	1	0	2	3	2	1	1	11	1
23	1	1	1	0	1	1	0	0	5	0
24	1	2	2	0	0	0	0	1	6	0
25	1	2	1	1	2	3	3	3	16	1
26	4	3	2	1	1	1	0	1	13	1
27	1	0	3	3	3	2	2	2	16	1
28	1	0	0	0	1	1	0	0	3	0
29	0	0	2	2	1	2	1	2	10	0
30	0	1	2	2	1	1	1	1	9	0
31	0	1	1	1	2	2	2	1	10	0



pi, pc							
DAY	TIME (GMT)		T Y P E	QUALITY A, B, C	LARGEST OSCILLATIONS		REMARKS
	Begin	End			Period	Range	
01	21 ^h	00 ^m	21 ^h 16 ^m	pi 2	B		
01/0	23	39	00 21	pc 4	B		
02	04	45	04 57	pc 4	B		
08	13	35	13 56	pc 4	A		
09	00	38	00 50	pi 2	A		
10	21	36	21 40	pi 2	A		
11	05	33	06 24	pc 4	B		
11	10	47	13 56	pc 3	A		
12	07	37	07 48	pc 4	B		
13	19	23	19 30	pi 2	A		
13	20	40	20 55	pi 2	A		
14	19	09	19 30	pc 4	B		
16	23	02	23 11	pi 2	A		
17	00	27	00 35	pi 2	A		
19	00	42	00 53	pc 4	A		
19	20	19	20 33	pi 2	A		
21	01	18	01 43	pc 4	B		
23	05	33	05 47	pc 4	A		
24	22	00	22 09	pi 2	B		
31	04	06	05 20	pc 4	A		

SERVICO METEOROLÓGICO DE ANGOLA

CENTRO GEOFÍSICO DE BELAS

LUANDA

$\phi = 8^{\circ} 55' S$; $\lambda = 13^{\circ} 10' E$; $h = 53 \text{ m}$ $\phi = 7^{\circ} 11' S$; $\lambda = 8^{\circ} 33' E$

OCTOBER 1975

Geomagnetic Bulletin

LUANDA

Scale values of the Askania variometers:

$e_D = 3,6 \gamma / \text{mm}$; $e_H = 3,5 \gamma / \text{mm}$; $e_Z = 3,4 \gamma / \text{mm}$

Time scale of variometers: 20 mm/h.

Range for K = 9;350 γ

INDICES OF GEOMAGNETIC ACTIVITY

GR DAY	K - Indices for three-hour interval									SUM	Char. 0.1.2 FULL DAY
	h- 00	h- 03	h- 06	h- 09	h- 12	h- 15	h- 18	h- 21	h- 24		
19	00	03	06	09	12	15	18	21	24		
1	1	1	1	1	1	0	1	0	6		0
2	0	0	0	0	1	0	0	1	2		0
3	1	1	0	1	1	2	3	3	12		1
4	3	1	0	0	1	1	0	2	8		0
5	2	1	1	1	1	1	0	1	8		0
6	1	1	3	2	2	3	4	3	19		1
7	2	3	2	2	3	2	3	3	20		1
8	1	1	1	4	4	4	4	5	24		2
9	2	1	2	3	2	3	3	3	19		1
10	1	2	2	1	3	2	2	2	15		1
11	1	0	1	1	1	1	1	0	6		0
12	1	1	-	-	-	-	-	-	-		-
13	-	-	-	-	1	0	0	1	-		-
14	1	1	1	1	1	3	3	2	13		1
15	1	1	2	1	1	1	1	-	-		-
16	-	-	-	-	-	-	-	-	-		-
17	-	-	-	-	-	-	-	-	-		-
18	-	-	-	-	-	-	-	-	-		-
19	-	-	-	-	1	1	1	1	-		-
20	1	0	1	0	0	0	0	2	4		0
21	3	0	1	2	2	1	1	2	12		1
22	1	1	2	0	0	0	0	1	5		0
23	1	2	0	0	1	1	1	0	6		0
24	0	0	1	2	3	3	2	0	11		1
25	0	1	0	1	1	0	0	0	3		0
26	1	0	1	1	1	1	1	2	8		0
27	2	1	1	1	1	1	0	0	7		0
28	0	1	2	2	1	1	3	3	13		1
29	1	1	2	2	2	1	1	2	12		1
30	1	0	0	0	1	1	2	2	7		0
31	1	1	2	2	-	4	4	2	-		-

= 2 =

DAY	DAILY MEAN			- SUDDEM COMMENCEMENTS AND BAYS				
	D	H	Z	DAY	TIME (GMT)	TYPE	Quality A.B.C.	Sense of chief Movement
					h m			D H Z
1	-10° 02,9	23 483	-22 567	08	20 59	si	A	= + =
2	02,4	485	563	14	06 18	bs	A	- + -
3	02,3	484	570	29	22 27	bp	A	+
4	02,5	468	570					
5	02,6	473	569					
6	02,2	449	575					
7	03,1	450	580					
8	02,0	439	578					
9	02,6	447	581					
10	02,8	445	581					
11	02,5	454	584					
12	-	-	-					
13	-	-	-					
14	-10° 02,4	459	581					
15	02,4	475	585					
16	-	-	-					
17	-	-	-					
18	-	-	-					
19	-	-	-					
20	-10° 02,1	479	582					
21	02,8	475	586					
22	02,4	481	586					
23	02,3	485	587					
24	03,0	473	585					
25	03,0	482	587					
26	03,3	482	593					
27	02,6	475	594					
28	02,5	475	596					
29	02,6	460	592					
30	02,6	468	597					
31	02,1	451	601					



pi, pc							
DAY	TIME (GMT)		T Y P E	QUALITY A.B.C	LARGEST OSCILLATIONS		REMARKS
	Begin	End			Period	Range	
01	21 ^h 40 ^m	22 ^h 36 ^m	Pc 4	B			
02	21 15	21 33	Pi 2	A			
02	22 22	22 40	Pi 2	A			
03	00 32	00 59	Pi 2	A			
03	23 09	23 17	Pi 2	A			
04	18 27	18 35	Pi 2	A			
09	21 54	22 18	Pi 2	A			
20	22 33	23 05	Pc 4	B			
22	20 33	20 42	Pi 2	A			
22	21 20	21 39	Pi 2	A			
23	02 29	02 40	Pi 2	A			
23	19 45	19 55	Pi 2	B			
25	00 51	01 30	Pc 4	B			
25	02 30	02 45	Pc 4	A			
26	22 42	23 08	Pi 2	A			
28	00 26	00 45	Pi 2	A			
29	23 27	23 51	Pi 2	A			
29	00 42	00 54	Pi 2	A			
29	22 08	22 20	Pi 2	A			
30	20 43	20 50	Pi 2	A			
30	21 08	21 20	Pi 2	A			

SERVIÇO METEOROLÓGICO DE ANGOLA

CENTRO GEOFÍSICO DE BELAS

LUANDA

$\varphi = 8^{\circ} 55' S$; $\lambda = 13^{\circ} 10' E$; $h = 53 \text{ m}$ $\phi = 7^{\circ} 11' S$; $\Lambda = 80^{\circ} 39' E$

NOVEMBER 1975

Geomagnetic Bulletin

LUANDA

Scale values of the Askania variometers:

$e_D = 3,6 \gamma / \text{mm}$; $e_H = 3,5 \gamma / \text{mm}$; $e_Z = 3,4 \gamma / \text{mm}$

Time scale of variometers: 20 mm/h.

Range for K = 9;350 γ

INDICES OF GEOMAGNETIC ACTIVITY

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



pi, pc

DAY	TIME (GMT)		TYPE	QUALITY A.B.C.	LARGEST OSCILLATIONS		REMARKS
	Begin	End			Period	Range	
01	22 35	22 53	Pi2	A			
12	16 44	17 29	Pc4	A			
20	03 00	05 11	Pc4	A			
20	20 15	20 23	Pi2	A			
21	20 03	20 11	Pi2	B			
27	23 06	23 14	Pi2	A			
28	00 33	00 51	Pi2	A			
28	01 21	01 35	Pi2	A			
29	02 07	02 37	Pi2	B			
30	14 09	14 23	Pi2	A			

SERVICO METEOROLOGICO DE ANGOLA

CENTRO GEOFISICO DE BELAS

LUANDA

$\psi = 8^{\circ} 55' S$; $\lambda = 13^{\circ} 10' E$; $h = 53$ $\phi = 7^{\circ} 11' S$; $\Lambda = 80^{\circ} 33' E$
 DECEMBER 1975

Geomagnetic Bulletin

LUANDA

Scale values of the Askania variometers:

$e_D = 3,6 \gamma / \text{mm}$; $e_H = 3,5 \gamma / \text{mm}$; $e_Z = 3,4 \gamma / \text{mm}$;

Time scale of variometers: 20 mm/h.

Range for K = 9;350 γ

INDICES OF GEOMAGNETIC ACTIVITY

GR DAY 1975	K - Indices for three-hour interval									Char. 0.1.2
	00 ^{h-} h	03 ^{h-} h	06 ^{h-} h	09 ^{h-} h	12 ^{h-} h	15 ^{h-} h	18 ^{h-} h	21 ^{h-} h	SUM	FULL DAY
1	2	1	2	3	3	3	3	3	20	1
2	0	3	2	2	2	2	1	2	14	1
3	1	1	2	3	3	2	1	1	14	1
4	0	1	2	1	4	2	1	1	12	1
5	0	2	2	2	2	2	2	1	12	1
6	1	0	1	1	-	-	2	2	-	0
7	1	1	1	2	2	2	1	1	10	0
8	-	-	1	1	2	4	4	4	-	1
9	1	2	3	4	4	3	2	2	21	1
10	1	1	2	1	3	3	-	-	-	1
11	-	-	-	-	2	1	2	1	-	0
12	1	0	2	1	-	-	0	0	4	0
13	0	2	2	1	-	-	1	1	-	1
14	1	2	2	1	2	2	1	2	13	1
15	1	2	1	1	2	1	0	2	10	0
16	2	2	2	2	2	3	1	1	15	1
17	1	2	2	1	2	1	1	2	12	1
18	1	2	2	2	2	1	1	1	12	1
19	1	1	2	1	1	1	1	1	9	0
20	0	1	2	2	1	0	1	1	8	0
21	1	-	-	2	3	2	3	1	2	1
22	2	3	3	1	3	2	1	1	16	1
23	1	1	2	1	2	1	1	1	10	0
24	1	0	2	1	0	1	2	2	9	0
25	2	2	3	2	4	3	1	3	20	1
26	3	1	3	4	5	4	3	2	25	2
27	1	2	3	3	3	4	4	3	23	2
28	3	1	2	2	1	2	1	1	13	1
29	1	1	2	2	1	1	2	1	11	1
30	1	0	2	2	2	0	1	0	8	0
31	1	0	1	1	1	1	1	1	7	0

pi, pc							
DAY	TIME (GMT)		TYPE	QUALITY A.B.C.	LARGEST OSCILLATIONS		REMARKS
	Begin	End			Period	Range	
01	16 ^h 18 ^m	16 ^h 56 ^m	pi2	A			
04	21 51	22 22	pc4	B			
07	20 08	20 40	pc4	A			
13	17 16	18 49	pc3	B			
13	22 51	23 00	pi2	A			
15	01 47	01 52	pi2	B			
18	16 32	16 51	pi2	A			
20	22 35	22 59	pi2	A			
22/23	23 00	00 26	pc4	A			
23	20 43	20 56	pi2	A			
24	20 15	20 43	pc4	B			
24	21 53	22 05	pi2	A			
25	00 21	00 39	pc4	A			
31	13 32	14 48	pc4	A			
31	22 32	23 08	pc4	B			