INSTITUTO HIDROGRÁFICO

DIVISÃO DE OCEANOGRAFIA

PJ OC 22EO05
RELATÓRIO TÉCNICO PRELIMINAR
REL. TP-OC-14/2006

TRATAMENTO DE DADOS DE AGITAÇÃO MARÍTIMA AÇORES/TERCEIRA - JAN A MAR 2006

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EXEMPLAR Nº 1

FOLHA DE DIFUSÃO

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TÍTULO DO RELATÓRIO

Tratamento de dados de agitação marítima
Açores/Terceira, Janeiro a Março de 2006

AUTOR(ES)
INSTITUTO HIDROGRÁFICO

TIPO DE RELATÓRIO	PERÍODO	DATA DO RELATÓRIO	Nº DE PÁGINAS
Técnico Preliminar	Jan a Mar 2006	19 de Junho de 2006	103

NOTAS (continuar no verso se necessário)

RESUMO (continuar no verso se necessário)

Neste relatório apresenta-se o processamento dos dados de agitação marítima adquiridos pela estação ondógrafo direccional instalada ao largo da Praia da Vitória na ilha Terceira, relativos ao período de Janeiro a Março de 2006.

Os dados, constituídos por séries temporais de deslocamentos verticais (elevações) e horizontais segundo os eixos N-S e E-W, são calculados pelo microprocessador instalado na bóia, a partir das medições das três componentes da aceleração do movimento da superfície livre e das três componentes do campo magnético terrestre.

Os dados foram processados com vista à estimação da distribuição de energia, direcção média e dispersão, por bandas de frequência, bem como à estimação dos parâmetros característicos da agitação, no que respeita a alturas, períodos e direcções.

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DIVISÃO DE OCEANOGRAFIA

PJ OC 22EO05
RELATÓRIO TÉCNICO PRELIMINAR
REL. TP-OC-14/2006

TRATAMENTO DE DADOS DE AGITAÇÃO MARÍTIMA AÇORES/TERCEIRA - JANEIRO A MARÇO 2006

1. INTRODUÇÃO

Neste relatório apresenta-se o processamento dos dados de agitação marítima adquiridos pela estação ondógrafo direccional instalada ao largo da Praia da Vitória na ilha Terceira, relativos ao período de Janeiro a Março de 2006. A estação, composta pela bóia DIRECTIONAL WAVERIDER MKIII, receptor WAREC e computador PCPENTIUM, está situada na posição LATITUDE = 38° 44′ 54″ N, LONGITUDE = 27° 00′ 54″ W, Sonda Reduzida = 85 metros.

Os dados constituídos por séries temporais de deslocamentos verticais (elevações) e horizontais segundo os eixos N-S e E-W, são calculados pelo microprocessador instalado na bóia, a partir das medições das três componentes da aceleração do movimento da superfície livre e das três componentes do campo magnético terrestre.

Em condições normais a aquisição dos dados é efectuada de três em três horas, durante períodos de 30 minutos. Em condições de temporal, ou seja, quando a altura significativa excede 5 metros, os períodos de aquisição de 30 minutos são apenas espaçados de pequenos intervalos necessários ao processamento dos dados. Os dados são adquiridos a uma taxa de digitalização de 1.28 amostras por segundo e agrupados em blocos de 200 segundos. O limite mínimo de duração para que um conjunto de dados (registo) seja tratado é de 10 minutos. Os grupos data-hora estão referidos à hora local e correspondem ao início dos registos.

Os dados foram processados com vista à estimação da distribuição de energia, direcção média e dispersão, por bandas de frequência, bem como à estimação dos parâmetros característicos da agitação, no que respeita a alturas, períodos e direcções. Na base deste processamento estão:

- a estimação dos espectros cruzados entre as três séries temporais;
- a estimação dos cinco primeiros coeficientes da expansão em série de Fourier da função de distribuição direccional de energia.

As séries temporais de elevações foram também processadas pelo método directo.

Devido a uma avaria da bóia no mês de Novembro de 2005, a mesma só foi recolocada a 06 de Janeiro, pelo que, não existe informação de 01 a 05.

2. RESULTADOS

São apresentados, para cada mês, os resultados do processamento efectuado, organizados de acordo com os seguintes ANEXOS:

ANEXO A - Listagem dos parâmetros HS, H10, H100, HMAX, HMED, THS, TH10, TH100, THMAX, TZ, TC e TMAX calculados pelo método directo;

ANEXO B - Gráficos temporais de HS, HMAX, TZ, TMAX, THS e THMAX;

ANEXO C - Tabelas de ocorrências conjuntas HMAX - THMAX, H100 - TH100, H10 - TH10, HS - THS, HS - TZ e HMAX - TMAX.

ANEXO D - Listagem dos parâmetros espectrais HM0, T02, TP, SMAX, e direccionais THTP1, SPRTP1, THHF1, THLF1 e N;

ANEXO E - Gráficos temporais de HM0, T02 e TP, THTP1, SPRTP1, THHF1, THLF1;

ANEXO F - Tabelas de ocorrências conjuntas HM0-T02 , HM0-TP, HM0-THTP1 e TP-THTP1;

ANEXO G - Evolução temporal da distribuição de energia e da direcção média por banda de frequência;

ANEXO H - Gráficos de distribuição de energia, direcção média e dispersão, para os registos em que HM0 ≥ 4.0 metros.

Adjunto da Divisão de Oceanografia
Responsável pela Secção de Agitação Marítima

Mariana Simões Costa
2006.Jan.29
Mariana Simões Costa
Assessora principal

Visto
O C / OC

José Alberto de Mesquita Onofre
CTEN EH

ANEXO A

Listagem dos parâmetros HS, H10, H100, HMAX, HMED, THS, TH10, TH100, THMAX, TZ, TC e TMAX, calculados pelo método directo

Código de símbolos:

NA		-	Número de alturas de onda de zero ascendente;
HS	(m)	-	Altura significativa (média do terço mais elevado das alturas de onda de zero ascendente);
H10	(m)	-	Média do décimo mais elevado das alturas de onda de zero ascendente;
H100	(m)	-	Média do centésimo mais elevado das alturas de onda de zero ascendente;
HMAX	(m)	-	Altura máxima de zero ascendente ocorrida no registo;
HMED	(m)	-	Altura média de zero ascendente;
THS	(s)	-	Média dos períodos correspondentes às ondas que foram utilizadas no cálculo de HS;
TH10	(s)	-	Média dos períodos correspondentes às ondas que foram utilizadas no cálculo de H10;
TH100	(s)	-	Média dos períodos correspondentes às ondas que foram utilizadas no cálculo de H100;
THMAX	(s)	-	Período correspondente a HMAX;
TZ	(s)	-	Média dos períodos de zero ascendente;
TC	(s)	-	Média dos períodos de crista;
TMAX	(s)	-	Período máximo ocorrido no registo.

DIA	HORA	NA	HS (m)	H10 (m)	H100 (m)	HMAX (m)	HMED (m)	THS (s)	TH10 (s)	TH100 (s)	THMAX (s)	TZ (s)	TC (s)	TMAX (s)
06	18-00	221	1.70	2.13	2.69	2.81	1.08	9.7	10.0	9.4	9.4	8.1	5.5	14.1
06	21-00	220	1.67	2.11	2.49	2.52	1.04	10.0	10.1	9.8	10.2	8.1	6.0	14.1
07	00-00	221	1.37	1.74	2.31	2.55	0.88	9.6	9.3	9.0	10.2	8.1	4.9	14.1
07	03-00	238	1.22	1.52	1.88	2.00	0.77	9.4	9.0	9.8	9.4	7.5	4.6	14.1
07	06-00	245	1.12	1.41	1.98	1.98	0.70	9.5	9.8	9.4	8.6	7.3	4.0	14.1
07	09-00	244	0.94	1.21	1.63	1.72	0.57	9.8	10.0	9.4	10.2	7.3	4.1	14.1
07	12-00	293	0.95	1.19	1.50	1.52	0.57	9.0	9.5	9.6	9.4	6.1	3.5	12.5
07	15-00	376	1.00	1.24	1.45	1.52	0.63	6.7	7.2	8.6	7.8	4.8	3.4	12.5
07	18-00	415	1.14	1.39	1.76	1.85	0.72	5.4	5.8	7.4	3.9	4.3	3.5	13.3
08	00-00	322	2.00	2.47	3.08	3.16	1.27	7.1	7.4	7.0	7.0	5.5	4.0	14.8
08	06-00	262	3.15	3.94	4.64	4.79	2.03	8.6	9.0	8.6	8.6	6.8	4.7	14.1
08	09-00	272	2.96	3.88	4.90	5.04	1.82	8.2	8.6	8.6	8.6	6.6	4.6	14.8
08	12-00	272	2.81	3.51	4.60	5.08	1.81	8.4	8.9	8.6	7.8	6.6	4.6	14.1
08	15-00	263	3.09	4.02	5.42	6.51	1.93	8.6	8.9	10.2	10.2	6.8	4.7	13.3
08	18-00	264	3.07	3.69	4.48	4.97	2.03	8.1	8.4	9.1	9.4	6.8	4.9	12.5
08	21-00	273	2.93	3.53	4.52	4.76	1.87	7.9	8.1	7.8	7.8	6.5	4.6	13.3
09	00-00	228	3.78	4.62	5.68	5.78	2.45	9.8	10.2	9.8	10.2	7.9	5.2	14.1
09	03-00	241	3.48	4.28	4.83	4.95	2.13	9.7	9.9	11.3	10.9	7.4	4.8	14.1
09	06-00	245	3.09	3.79	4.92	4.95	1.94	9.3	9.5	9.8	10.2	7.3	4.8	15.6
09	09-00	244	2.91	3.74	5.41	5.93	1.83	9.6	10.2	10.5	9.4	7.4	5.1	14.8
09	12-00	242	2.61	3.24	3.72	3.74	1.66	9.3	9.5	10.5	10.2	7.4	5.1	16.4
10	00-00	247	1.85	2.27	3.15	3.19	1.19	8.7	8.8	8.2	8.6	7.2	5.3	13.3
10	03-00	259	1.59	2.00	2.47	2.64	1.00	8.5	8.3	8.1	7.0	6.9	5.0	13.3
10	06-00	268	1.36	1.68	2.14	2.17	0.86	8.0	8.1	7.8	8.6	6.7	4.9	13.3
10	15-00	294	1.00	1.25	1.47	1.53	0.65	7.1	7.4	7.8	7.8	6.1	4.2	11.7
10	18-00	292	1.02	1.26	1.58	1.62	0.65	7.5	7.5	7.3	7.0	6.2	4.7	11.7
10	21-00	280	1.04	1.31	1.75	1.81	0.66	8.0	7.9	7.3	7.8	6.4	4.6	13.3
11	00-00	249	1.40	1.75	2.10	2.13	0.89	8.8	8.7	8.2	7.8	7.2	5.0	14.1
11	03-00	254	1.29	1.61	2.07	2.18	0.78	8.9	9.4	9.6	9.4	7.0	4.9	14.1
11	06-00	254	1.54	1.93	2.32	2.40	0.95	9.3	8.8	9.4	8.6	7.1	4.3	15.6
11	09-00	286	1.45	1.83	2.16	2.17	0.90	9.0	9.6	9.4	7.8	6.3	4.0	14.1
11	15-00	300	1.78	2.20	2.95	2.99	1.11	8.4	10.1	9.4	9.4	5.9	3.9	13.3
11	18-00	269	2.07	2.58	3.23	3.39	1.30	8.8	9.4	10.4	10.2	6.6	4.5	14.8
11	21-00	261	1.88	2.35	2.97	3.26	1.16	9.6	9.8	9.4	10.2	6.9	4.2	14.8
12	00-00	265	1.47	1.93	2.42	2.52	0.90	9.6	10.5	9.9	9.4	6.8	4.0	14.8
12	03-00	263	1.33	1.70	2.09	2.28	0.81	9.1	9.0	10.2	11.7	6.8	4.5	13.3
12	09-00	254	1.59	2.10	2.64	2.67	0.99	9.1	9.4	8.9	9.4	7.0	4.6	14.8
12	12-00	255	1.97	2.49	3.04	3.12	1.17	9.7	9.8	10.4	10.9	7.0	4.2	14.8
12	15-00	248	1.78	2.20	2.66	2.69	1.10	9.8	9.6	9.8	10.2	7.2	4.3	16.4
12	18-00	229	1.95	2.38	3.15	3.39	1.25	10.2	10.1	8.6	7.8	7.8	4.4	14.8
12	21-00	223	2.51	3.00	3.69	3.71	1.59	10.1	10.4	10.5	10.2	8.0	5.0	16.4
13	03-00	204	3.77	4.90	6.09	6.20	2.24	11.9	12.5	11.3	12.5	8.8	5.1	18.0
13	06-00	194	3.67	4.46	5.49	5.96	2.26	12.3	12.2	13.3	14.1	9.2	5.0	16.4
13	09-00	192	3.50	4.42	5.12	5.21	2.17	12.2	12.5	10.5	9.4	9.2	5.0	18.8
13	12-00	177	3.72	4.52	6.12	6.41	2.37	13.0	13.3	13.7	14.1	10.1	5.5	18.0

DIA	HORA	NA	HS (m)	H10 (m)	H100 (m)	HMAX (m)	HMED (m)	THS (s)	TH10 (s)	TH100 (s)	THMAX (s)	TZ (s)	TC (s)	TMAX (s)
13	21-00	175	3.63	4.36	5.73	5.99	2.17	13.3	12.8	12.9	12.5	10.2	6.3	18.0
14	00-00	185	2.91	3.68	5.10	5.29	1.77	12.9	13.8	13.3	12.5	9.7	5.2	18.0
14	06-00	209	2.12	2.60	3.35	3.68	1.29	12.2	12.8	12.1	12.5	8.5	4.7	18.0
14	09-00	257	2.00	2.50	3.31	3.72	1.25	9.9	10.3	10.9	7.8	7.0	4.0	15.6
14	12-00	262	2.04	2.65	3.49	3.83	1.26	9.7	10.7	10.7	11.7	6.8	3.9	15.6
14	15-00	219	2.20	2.73	3.61	4.00	1.33	11.2	12.1	11.3	11.7	8.2	4.1	16.4
14	18-00	244	2.17	2.76	3.79	4.35	1.32	10.5	11.7	9.8	10.9	7.3	4.1	15.6
14	21-00	241	2.51	3.20	3.81	3.85	1.55	10.9	11.8	12.5	13.3	7.4	4.3	16.4
15	03-00	207	3.21	3.90	4.65	4.77	1.98	11.8	12.3	10.9	9.4	8.6	4.6	18.8
15	06-00	210	3.06	3.90	5.27	5.58	1.90	11.6	12.6	13.3	13.3	8.5	4.9	18.0
15	09-00	211	3.16	3.82	4.47	4.50	1.93	11.7	12.3	11.3	10.9	8.5	4.7	15.6
15	12-00	232	2.83	3.49	4.57	4.64	1.78	10.0	10.5	10.5	10.9	7.7	4.7	14.8
15	15-00	217	2.89	3.57	4.97	5.37	1.83	10.9	11.2	10.2	10.2	8.2	4.8	16.4
15	18-00	202	2.94	3.76	4.49	4.51	1.83	11.6	12.1	12.9	14.1	8.9	4.9	16.4
15	21-00	205	3.06	3.92	4.95	5.07	1.85	11.7	12.2	12.9	13.3	8.7	5.1	17.2
16	00-00	189	3.62	4.76	5.83	5.84	2.24	12.2	12.4	12.9	12.5	9.4	5.6	18.0
16	03-00	198	3.19	3.98	5.74	6.25	1.97	11.8	12.7	12.5	11.7	9.0	5.1	19.5
16	06-00	181	3.38	4.01	4.57	4.62	2.11	12.3	12.4	12.1	12.5	9.9	5.6	17.2
16	12-00	207	2.74	3.31	3.88	3.90	1.69	11.7	12.2	12.5	11.7	8.7	4.7	15.6
16	21-00	224	2.32	2.99	3.52	3.62	1.44	10.6	10.7	10.9	10.9	8.0	4.7	16.4
17	00-00	233	2.31	3.00	4.11	4.14	1.45	10.3	11.0	9.8	10.2	7.7	4.9	14.1
17	03-00	237	2.22	2.79	3.70	3.70	1.38	10.0	10.4	10.9	10.9	7.5	4.6	14.8
17	06-00	232	2.11	2.74	3.34	3.46	1.26	10.3	10.4	10.9	10.2	7.7	4.9	15.6
17	09-00	234	2.05	2.55	3.31	3.31	1.27	9.8	10.3	10.2	9.4	7.7	5.0	14.8
17	15-00	229	1.76	2.19	2.95	3.11	1.12	9.9	9.9	9.4	8.6	7.8	4.8	14.8
17	18-00	219	1.76	2.24	3.13	3.41	1.12	9.7	9.6	10.2	10.2	8.2	5.4	14.8
17	21-00	238	1.51	1.85	2.36	2.57	0.96	9.0	9.2	9.0	9.4	7.5	5.1	14.8
18	03-00	250	1.41	1.79	2.27	2.37	0.91	8.6	8.6	9.6	10.2	7.2	5.1	13.3
18	12-00	237	1.13	1.43	2.01	2.03	0.76	9.1	9.8	9.0	7.8	7.6	4.9	13.3
18	15-00	253	1.17	1.43	1.74	1.83	0.72	9.2	9.9	9.1	9.4	7.1	4.3	14.8
18	18-00	258	1.02	1.33	1.75	1.88	0.64	9.2	9.9	10.4	10.2	6.9	4.2	14.1
18	21-00	246	1.11	1.39	1.81	1.86	0.70	9.7	10.1	10.9	10.9	7.3	4.3	15.6
19	03-00	332	1.19	1.51	2.11	2.39	0.78	7.6	8.3	9.1	10.2	5.4	3.5	14.1
19	06-00	373	1.30	1.65	2.46	2.77	0.84	6.2	6.1	5.9	7.0	4.8	3.4	15.6
19	12-00	345	1.34	1.65	2.25	2.55	0.86	6.7	6.9	6.5	5.5	5.2	3.6	15.6
19	15-00	368	1.28	1.55	1.90	2.02	0.82	6.2	6.6	6.1	5.5	4.9	3.6	12.5
19	18-00	324	1.20	1.50	1.84	2.02	0.77	6.9	7.0	7.3	6.2	5.5	4.0	13.3
19	21-00	338	1.17	1.41	1.81	2.05	0.76	7.1	8.3	7.3	5.5	5.3	3.6	14.8
20	00-00	393	1.26	1.55	1.96	2.25	0.80	5.8	6.0	5.7	7.0	4.6	3.5	13.3
20	03-00	352	1.41	1.71	2.08	2.39	0.92	6.5	7.0	5.3	5.5	5.1	3.6	13.3
20	06-00	306	1.34	1.69	2.07	2.31	0.85	8.3	10.2	12.0	11.7	5.8	3.6	16.4
20	09-00	288	1.71	2.09	2.41	2.57	1.12	7.9	8.7	8.9	10.9	6.2	4.1	14.1
20	12-00	272	2.12	2.58	2.92	3.03	1.33	9.0	9.1	10.2	9.4	6.6	4.4	14.1
20	15-00	260	2.64	3.17	3.61	3.64	1.67	9.6	10.5	10.2	14.1	6.9	4.4	17.2
20	18-00	229	3.15	3.97	5.30	5.33	1.95	10.9	11.7	11.3	13.3	7.8	4.6	18.8

DIA	HORA	NA	HS (m)	H10 (m)	H100 (m)	HMAX (m)	HMED (m)	THS (s)	TH10 (s)	TH100 (s)	THMAX (s)	TZ (s)	TC (s)	TMAX (s)
20	21-00	232	3.27	4.09	5.30	5.34	2.09	10.5	11.7	10.9	11.7	7.7	4.8	18.0
21	00-00	224	3.20	4.01	5.61	5.80	2.01	10.8	11.8	10.5	7.8	8.0	4.7	18.0
21	06-00	233	2.97	3.81	4.44	4.56	1.80	10.3	10.9	9.4	9.4	7.7	4.7	16.4
21	09-00	228	2.77	3.41	4.80	5.27	1.76	10.4	10.2	10.5	10.9	7.8	4.7	16.4
21	12-00	252	2.62	3.34	4.55	4.78	1.66	9.3	9.4	9.1	7.0	7.1	4.6	16.4
21	15-00	257	2.36	2.96	3.88	4.21	1.52	9.0	9.0	8.1	8.6	7.0	4.8	16.4
21	18-00	248	2.19	2.71	3.44	3.47	1.42	9.0	9.3	9.4	8.6	7.2	4.7	14.8
21	21-00	251	1.96	2.40	2.84	2.84	1.28	8.6	8.5	8.9	8.6	7.1	4.7	14.8
22	00-00	243	2.10	2.65	3.57	3.60	1.34	8.6	8.6	9.0	7.8	7.3	5.1	14.8
22	03-00	257	1.92	2.49	3.19	3.24	1.22	8.5	8.5	7.3	8.6	7.0	5.0	14.8
22	06-00	266	1.73	2.11	3.04	3.29	1.09	8.7	8.5	8.1	9.4	6.8	4.8	14.8
22	09-00	280	1.54	1.97	2.33	2.41	0.96	8.5	8.9	10.2	8.6	6.4	4.3	14.8
22	12-00	273	1.56	1.94	2.37	2.47	0.97	8.4	8.8	8.1	7.8	6.6	4.4	13.3
22	15-00	253	1.74	2.13	2.44	2.49	1.11	8.5	8.2	8.1	7.8	7.1	5.1	14.1
22	18-00	243	1.88	2.43	3.36	3.60	1.18	8.2	8.4	7.8	7.8	7.4	5.5	13.3
22	21-00	263	1.69	2.14	2.61	2.65	1.06	8.3	8.4	8.9	7.8	6.8	4.6	14.1
23	03-00	250	1.70	2.15	2.76	2.88	1.09	8.9	8.8	8.6	7.8	7.2	5.0	14.8
23	06-00	261	1.64	2.07	2.61	2.73	1.04	8.5	8.7	8.6	8.6	6.8	4.6	14.1
23	09-00	264	1.64	2.04	2.48	2.57	1.03	8.5	8.6	8.6	10.2	6.8	4.7	14.1
23	18-00	253	1.53	1.93	2.48	2.54	0.94	9.4	10.0	8.9	7.8	7.0	4.3	15.6
23	21-00	241	1.57	1.90	2.39	2.39	1.00	10.1	10.3	9.0	9.4	7.4	4.6	14.8
24	03-00	244	1.39	1.77	2.28	2.30	0.91	9.7	10.3	10.9	10.9	7.3	4.9	14.8
24	06-00	274	1.44	1.79	2.21	2.32	0.89	9.2	9.8	10.2	9.4	6.5	4.0	14.8
24	09-00	304	1.77	2.21	2.68	2.83	1.14	8.0	8.2	10.2	10.9	5.9	3.9	16.4
24	12-00	253	2.35	3.03	3.94	4.15	1.44	10.5	12.1	12.5	14.1	7.1	4.2	18.0
24	18-00	213	2.75	3.46	4.26	4.49	1.72	12.1	14.0	15.6	14.1	8.4	4.6	19.5
24	21-00	176	3.31	4.18	5.16	5.26	2.04	14.1	15.2	14.5	14.1	10.2	5.0	20.3
25	00-00	190	3.31	4.14	5.65	5.78	2.03	13.6	14.7	13.3	15.6	9.4	4.7	21.1
25	03-00	217	3.34	4.23	5.36	5.48	2.02	12.0	13.1	12.1	11.7	8.2	4.5	20.3
25	06-00	201	3.26	3.99	5.16	5.34	2.07	12.2	12.2	13.3	14.1	8.9	4.8	20.3
25	09-00	212	2.93	3.84	4.91	4.98	1.79	12.2	13.5	14.5	13.3	8.4	5.1	20.3
25	12-00	184	2.77	3.53	5.03	5.29	1.65	13.7	14.1	15.6	15.6	9.7	5.5	21.1
25	15-00	179	3.17	4.02	4.88	4.93	1.87	14.2	15.1	15.2	17.2	10.0	4.8	21.9
25	18-00	219	2.57	3.23	3.83	3.91	1.54	13.0	14.6	16.0	14.8	8.2	4.0	19.5
25	21-00	208	2.41	3.03	4.07	4.71	1.45	13.1	13.8	14.1	13.3	8.6	4.1	18.0
26	03-00	182	2.42	2.95	3.71	4.08	1.49	13.3	13.5	12.9	14.1	9.8	4.8	19.5
26	06-00	226	2.38	3.05	4.45	4.59	1.42	11.9	12.9	13.3	14.8	7.9	3.9	18.0
26	09-00	239	2.72	3.53	4.51	4.61	1.70	10.9	12.4	11.7	10.9	7.5	4.4	18.0
26	12-00	254	3.23	4.03	5.49	7.25	2.06	8.8	9.5	8.9	7.8	7.0	5.0	15.6
26	21-00	257	2.80	3.49	4.04	4.07	1.76	8.8	9.7	10.2	10.9	7.0	4.9	16.4
27	03-00	252	2.32	2.93	3.97	4.28	1.52	9.1	10.2	10.7	12.5	7.1	4.7	14.8
27	06-00	252	2.31	2.88	3.72	3.91	1.44	9.3	9.5	10.2	8.6	7.1	4.6	16.4
27	09-00	243	2.17	2.73	3.54	3.57	1.39	9.5	9.6	8.2	10.2	7.4	4.7	15.6
27	12-00	245	1.95	2.48	3.28	3.51	1.24	9.4	9.5	10.5	10.2	7.3	4.7	15.6
27	15-00	243	1.83	2.26	2.85	3.01	1.16	9.1	8.9	8.2	8.6	7.4	5.2	14.1

DIA	HORA	NA	HS (m)	H10 (m)	H100 (m)	HMAX (m)	HMED (m)	THS (s)	TH10 (s)	TH100 (s)	THMAX (s)	TZ (s)	TC (s)	TMAX (s)
27	18-00	249	1.71	2.13	2.66	2.68	1.10	9.0	8.9	10.5	10.2	7.2	4.9	14.8
27	21-00	244	1.80	2.31	3.27	3.34	1.15	8.6	9.2	10.2	10.2	7.3	5.1	14.1
28	00-00	244	1.58	1.93	2.40	2.56	1.02	8.9	8.9	9.8	11.7	7.3	4.9	14.1
28	03-00	280	1.36	1.77	2.20	2.30	0.82	8.5	8.5	7.6	7.8	6.4	4.0	13.3
28	09-00	342	1.21	1.51	1.80	1.92	0.74	7.2	8.2	7.3	5.5	5.2	3.4	12.5
28	12-00	345	1.11	1.43	1.79	1.83	0.67	7.4	7.9	8.6	7.8	5.2	3.3	11.7
28	15-00	342	1.26	1.57	2.13	2.37	0.80	7.0	8.0	7.8	7.0	5.2	3.6	11.7
28	18-00	287	1.77	2.21	3.01	3.23	1.09	8.8	9.2	10.2	9.4	6.2	3.9	14.1
28	21-00	240	2.12	2.64	3.05	3.16	1.31	10.2	10.2	9.8	9.4	7.4	4.3	14.8
29	03-00	261	1.99	2.47	3.28	3.53	1.23	9.4	10.0	10.7	10.9	6.8	4.2	13.3
29	12-00	293	1.67	2.13	2.50	2.56	1.04	8.7	9.4	9.6	11.7	6.1	3.9	12.5
29	15-00	308	1.60	1.95	2.39	2.45	0.98	8.3	8.4	8.6	8.6	5.8	3.9	11.7
29	18-00	318	1.70	2.08	2.55	2.61	1.09	7.2	7.3	6.5	7.0	5.6	4.1	12.5
30	06-00	305	1.87	2.36	2.86	2.95	1.19	7.3	7.7	7.8	7.0	5.9	4.6	12.5
30	12-00	290	1.54	1.97	2.45	2.58	0.99	7.5	7.9	7.8	9.4	6.2	4.4	13.3
30	15-00	273	1.52	1.94	2.54	2.62	0.97	8.0	8.5	8.9	8.6	6.6	4.5	13.3
30	18-00	259	1.62	2.02	2.63	2.74	1.04	8.2	8.4	8.3	7.8	6.9	4.8	13.3
30	21-00	276	1.76	2.14	2.63	2.82	1.13	8.1	8.9	9.1	9.4	6.5	4.2	14.1
31	00-00	292	1.78	2.25	2.77	3.02	1.11	8.6	9.5	8.6	9.4	6.1	3.8	16.4
31	06-00	254	1.51	1.88	2.31	2.62	0.99	8.7	8.9	8.6	7.8	7.0	4.5	13.3
31	09-00	273	1.59	1.95	2.24	2.38	1.01	8.3	8.6	9.4	9.4	6.6	4.5	12.5
31	12-00	274	1.42	1.76	2.36	2.80	0.90	8.5	8.8	9.9	10.2	6.5	4.3	13.3
31	15-00	289	1.38	1.67	2.01	2.02	0.84	8.6	9.1	8.3	9.4	6.2	3.9	12.5
31	18-00	281	1.17	1.44	1.84	2.05	0.75	7.9	8.2	8.1	7.0	6.4	4.2	12.5
31	21-00	309	1.22	1.47	1.93	1.98	0.77	7.9	7.8	8.3	7.8	5.8	3.9	13.3

PARAMETROS CALCULADOS PELO METODO DIRECTO TERCEIRA FEV 2006

DIA	HORA	NA	HS (m)	H10 (m)	H100 (m)	HMAX (m)	HMED (m)	THS (s)	TH10 (s)	TH100 (s)	THMAX (s)	TZ (s)	TC (s)	TMAX (s)
01	00-00	356	1.28	1.68	2.35	2.66	0.78	7.4	7.7	8.6	7.8	5.0	3.5	12.5
01	03-00	346	1.60	1.97	2.61	2.88	1.01	6.9	7.1	6.8	9.4	5.2	3.6	10.9
01	06-00	326	1.40	1.73	2.23	2.26	0.88	7.4	7.7	7.6	7.0	5.5	3.7	14.1
01	12-00	307	1.93	2.32	2.86	2.91	1.21	7.6	7.8	9.1	8.6	5.8	4.2	10.9
01	15-00	279	1.88	2.34	2.97	3.37	1.20	8.3	8.4	8.3	7.8	6.4	4.4	14.1
01	18-00	270	1.80	2.25	2.98	3.32	1.13	8.5	9.0	8.3	7.0	6.6	4.5	13.3
01	21-00	262	1.85	2.23	2.74	2.95	1.21	8.4	8.2	8.3	9.4	6.8	4.6	13.3
02	03-00	281	2.05	2.54	3.08	3.34	1.34	8.0	7.8	8.3	8.6	6.4	4.7	13.3
02	06-00	263	2.07	2.58	3.50	4.01	1.32	8.7	8.4	9.9	8.6	6.8	4.5	13.3
02	09-00	247	2.40	3.04	3.94	3.99	1.51	9.2	9.3	8.6	8.6	7.3	5.2	12.5
02	15-00	230	2.09	2.62	3.51	3.54	1.33	9.3	9.3	9.8	8.6	7.8	5.1	13.3
02	18-00	215	1.95	2.53	3.22	3.25	1.26	10.0	10.0	9.8	9.4	8.3	5.6	14.1
02	21-00	232	1.89	2.41	3.21	3.30	1.21	9.3	9.7	8.6	8.6	7.7	5.5	14.1
03	00-00	217	1.91	2.39	3.11	3.19	1.24	10.2	10.1	10.5	10.2	8.2	4.5	16.4
03	03-00	218	2.11	2.69	3.64	3.97	1.28	11.0	12.1	11.7	12.5	8.2	4.5	17.2
03	06-00	196	2.24	2.77	3.61	3.80	1.35	11.9	11.9	11.3	11.7	9.1	4.4	19.5
03	09-00	238	2.00	2.64	3.40	3.46	1.18	11.1	11.9	12.9	13.3	7.5	4.5	14.1
03	12-00	266	1.79	2.30	2.65	2.67	1.09	9.9	11.0	10.2	7.0	6.7	4.0	16.4
03	15-00	306	1.58	2.03	2.67	2.90	0.97	8.5	9.9	11.2	10.2	5.9	3.8	14.8
03	18-00	298	1.56	1.98	2.46	2.53	0.95	8.7	10.3	11.5	11.7	6.0	3.8	14.8
03	21-00	309	1.54	1.91	2.25	2.36	0.98	7.7	8.5	10.2	11.7	5.8	4.1	15.6
04	00-00	306	1.74	2.27	3.09	3.21	1.10	8.1	10.4	12.2	14.1	5.9	4.0	17.2
04	03-00	310	1.58	1.98	2.53	2.65	0.99	8.5	10.3	12.2	12.5	5.8	3.7	15.6
04	06-00	316	1.57	1.93	2.44	2.62	1.02	7.4	7.9	8.3	7.8	5.7	3.9	15.6
04	09-00	286	2.06	2.62	3.26	3.31	1.31	8.2	8.9	6.2	5.5	6.2	4.2	18.0
04	12-00	286	2.61	3.21	3.96	4.12	1.69	7.7	7.8	7.3	7.8	6.3	4.4	16.4
04	15-00	275	2.50	3.13	3.98	4.33	1.60	7.9	8.1	7.6	7.8	6.5	4.6	13.3
04	18-00	267	2.02	2.48	3.23	3.51	1.30	8.4	8.8	7.8	9.4	6.7	4.6	15.6
04	21-00	256	2.08	2.62	3.39	3.50	1.35	8.5	8.7	8.9	9.4	7.0	4.8	14.1
05	03-00	265	1.96	2.47	3.10	3.29	1.24	8.5	9.2	10.2	8.6	6.8	4.8	14.1
05	09-00	238	1.85	2.25	2.61	2.63	1.20	9.9	10.1	12.9	14.1	7.5	5.2	14.8
05	12-00	229	2.05	2.52	3.23	3.50	1.31	9.5	9.9	8.6	8.6	7.8	5.3	14.1
05	15-00	234	2.00	2.39	2.95	3.01	1.31	9.3	9.1	8.6	10.2	7.6	5.1	15.6
05	18-00	235	1.97	2.42	3.02	3.18	1.21	9.5	9.6	9.4	8.6	7.6	5.1	15.6
05	21-00	226	2.07	2.58	3.27	3.42	1.31	9.9	10.4	10.5	10.9	7.9	5.4	15.6
06	03-00	264	1.84	2.33	2.70	2.76	1.14	8.5	8.7	9.1	8.6	6.8	5.0	12.5
06	06-00	225	1.90	2.29	2.79	2.95	1.25	9.5	9.3	7.8	7.8	7.9	5.5	14.1
06	09-00	242	1.71	2.19	3.07	3.20	1.09	8.9	8.7	8.2	8.6	7.4	5.6	15.6
06	12-00	231	1.73	2.12	2.78	2.78	1.11	9.3	9.7	9.0	8.6	7.7	5.7	13.3
06	15-00	252	1.77	2.12	2.67	2.82	1.12	8.6	8.7	8.6	9.4	7.1	5.1	13.3
06	18-00	264	1.72	2.19	2.84	2.91	1.06	8.4	8.2	8.3	7.0	6.8	4.8	12.5
06	21-00	254	1.82	2.34	3.09	3.17	1.15	9.0	9.0	8.9	7.8	7.1	4.6	12.5
07	00-00	286	1.80	2.14	2.54	2.61	1.13	8.3	8.0	8.3	9.4	6.3	4.1	11.7
07	03-00	286	1.85	2.29	3.08	3.75	1.16	8.2	7.9	8.1	7.8	6.3	4.0	12.5
07	18-00	264	3.57	4.60	5.99	7.01	2.19	8.5	8.7	8.6	7.8	6.8	5.0	12.5

DIA	HORA	NA	HS (m)	H10 (m)	H100 (m)	HMAX (m)	HMED (m)	THS (s)	TH10 (s)	TH100 (s)	THMAX (s)	TZ (s)	TC (s)	TMAX (s)
07	21-00	253	3.59	4.53	5.49	5.59	2.27	8.7	8.8	9.4	10.2	7.1	5.0	12.5
08	00-00	271	3.27	4.09	4.98	5.27	2.03	8.3	8.6	8.3	7.8	6.6	4.9	12.5
08	03-00	271	3.03	3.65	4.60	5.06	1.93	8.3	8.2	8.1	8.6	6.6	4.7	12.5
08	06-00	264	3.15	3.86	4.40	4.46	2.00	8.3	8.4	8.1	8.6	6.8	4.9	12.5
08	09-00	272	3.04	3.85	4.96	5.25	1.88	8.3	8.3	8.3	8.6	6.6	4.7	12.5
08	12-00	269	2.68	3.40	4.43	4.58	1.72	8.0	8.2	7.6	8.6	6.6	4.6	12.5
08	15-00	278	2.64	3.36	4.06	4.46	1.61	8.0	7.9	8.1	8.6	6.4	4.7	11.7
08	21-00	280	2.82	3.57	4.73	5.06	1.76	7.8	7.9	8.3	9.4	6.4	4.6	10.9
09	03-00	299	2.51	3.19	4.41	4.55	1.53	7.8	7.7	8.6	8.6	6.0	4.6	10.9
09	09-00	278	2.52	3.06	3.70	4.01	1.59	8.0	7.8	7.6	7.0	6.4	4.6	11.7
09	12-00	269	2.73	3.37	4.25	4.59	1.76	8.2	8.3	8.3	7.8	6.7	4.6	11.7
09	15-00	264	2.71	3.52	4.54	4.81	1.71	8.3	7.9	8.1	7.8	6.8	4.7	12.5
09	18-00	272	2.61	3.28	4.33	4.65	1.66	8.2	8.5	8.3	8.6	6.6	4.6	11.7
09	21-00	282	2.40	2.89	3.60	3.70	1.50	8.5	8.2	8.1	7.8	6.3	4.4	13.3
10	03-00	258	2.69	3.37	3.90	4.13	1.60	9.1	9.1	8.1	9.4	6.9	4.4	13.3
10	06-00	250	2.62	3.21	3.67	3.70	1.69	8.8	8.5	8.1	7.0	7.2	4.9	13.3
10	12-00	257	2.17	2.64	3.38	3.69	1.36	9.0	9.0	8.6	9.4	7.0	4.6	13.3
10	15-00	245	2.07	2.59	3.19	3.23	1.30	9.5	9.2	9.4	9.4	7.3	4.6	14.8
10	18-00	245	2.04	2.56	3.05	3.12	1.27	9.1	9.2	9.4	10.2	7.3	4.9	13.3
10	21-00	246	1.95	2.43	3.32	3.63	1.21	9.0	9.2	9.8	9.4	7.3	5.1	12.5
11	00-00	240	2.07	2.69	3.62	3.80	1.25	9.3	9.3	10.5	10.2	7.5	5.5	11.7
11	03-00	240	1.87	2.29	2.80	2.81	1.18	9.0	9.0	9.4	10.2	7.5	5.4	13.3
11	06-00	258	1.75	2.28	2.82	3.01	1.08	8.6	8.7	9.4	10.2	6.9	5.2	12.5
11	09-00	248	1.83	2.20	3.11	3.34	1.22	8.4	8.2	8.6	8.6	7.2	4.6	12.5
11	12-00	279	1.71	2.14	2.83	2.95	1.06	8.5	8.5	8.3	7.8	6.4	4.2	11.7
11	15-00	280	1.53	1.91	2.26	2.38	0.94	8.5	8.7	8.9	9.4	6.4	4.2	13.3
11	18-00	271	1.52	1.85	2.26	2.45	0.95	8.6	8.6	8.3	7.8	6.6	4.1	13.3
11	21-00	311	1.35	1.67	2.06	2.24	0.83	8.0	8.2	7.6	7.8	5.8	3.6	11.7
12	00-00	274	1.35	1.63	1.95	2.07	0.87	8.3	8.3	8.3	8.6	6.5	4.2	11.7
12	03-00	295	1.34	1.61	2.03	2.25	0.81	8.0	8.5	8.6	9.4	6.1	3.9	13.3
12	06-00	319	1.18	1.46	1.84	1.86	0.77	7.1	7.4	7.3	5.5	5.6	3.8	12.5
12	12-00	284	1.21	1.54	2.01	2.08	0.78	8.1	7.9	7.8	9.4	6.3	4.1	14.8
12	15-00	242	1.38	1.69	1.90	1.93	0.85	10.8	12.1	13.7	14.1	7.4	4.0	18.0
12	18-00	182	2.09	2.63	3.13	3.19	1.28	14.6	15.3	16.4	16.4	9.8	4.3	20.3
12	21-00	172	2.54	3.06	3.51	3.56	1.58	14.3	14.8	14.5	14.1	10.4	5.0	21.9
13	03-00	170	2.97	3.75	4.55	4.73	1.71	14.8	15.4	15.6	15.6	10.5	5.2	19.5
13	06-00	178	2.49	3.09	3.68	3.89	1.55	13.8	14.1	13.7	12.5	10.0	5.1	20.3
13	12-00	178	3.15	4.14	5.47	5.92	1.91	13.2	14.2	15.2	14.8	10.0	5.5	19.5
13	15-00	180	3.23	4.03	5.20	5.34	1.98	13.3	12.8	12.1	12.5	10.0	5.4	18.0
13	18-00	188	2.94	3.68	4.27	4.34	1.76	12.6	12.8	12.5	10.9	9.5	5.3	18.0
13	21-00	183	3.19	4.10	5.33	5.34	2.03	12.9	13.1	11.7	12.5	9.7	5.8	18.0
14	00-00	184	2.66	3.11	3.61	3.80	1.78	12.2	11.4	10.5	10.9	9.7	5.9	18.0
14	03-00	185	2.72	3.40	4.32	4.32	1.73	12.5	13.3	12.9	14.1	9.6	6.4	18.0
14	06-00	166	2.78	3.49	4.24	4.33	1.78	13.6	13.8	15.2	15.6	10.8	6.3	20.3
14	09-00	164	3.02	3.87	5.07	5.28	1.85	14.4	14.2	14.1	14.1	10.9	6.1	20.3

DIA	HORA	NA	HS (m)	H10 (m)	H100 (m)	HMAX (m)	HMED (m)	THS (s)	TH10 (s)	TH100 (s)	THMAX (s)	TZ (s)	TC (s)	TMAX (s)
14	12-00	165	2.74	3.60	4.40	4.47	1.71	13.4	14.0	12.9	12.5	10.8	6.2	18.0
14	15-00	180	2.65	3.41	4.76	4.93	1.59	13.1	13.5	13.7	14.1	9.9	5.5	18.0
14	18-00	182	2.14	2.75	3.40	3.46	1.28	12.7	13.1	13.7	14.8	9.8	5.1	18.0
14	21-00	165	2.27	2.72	3.26	3.36	1.46	13.3	12.9	12.9	13.3	10.8	5.6	18.0
15	00-00	194	2.03	2.56	2.97	3.05	1.23	11.9	12.5	11.3	12.5	9.2	5.7	17.2
15	03-00	180	2.16	2.70	3.19	3.22	1.37	11.8	11.8	11.3	12.5	9.9	6.2	17.2
15	06-00	188	1.83	2.31	2.91	2.95	1.19	11.0	11.2	11.7	12.5	9.5	6.1	17.2
15	15-00	278	1.55	2.00	2.54	2.62	0.95	9.4	10.9	11.5	11.7	6.4	3.7	18.0
15	18-00	242	1.63	2.03	2.55	2.60	1.02	10.5	10.9	11.7	10.9	7.4	3.8	17.2
15	21-00	240	1.74	2.17	2.67	2.67	1.04	11.1	11.6	9.8	9.4	7.4	4.0	16.4
16	03-00	200	1.98	2.51	2.97	2.98	1.21	13.2	13.5	13.7	14.1	8.9	4.3	18.0
16	12-00	226	2.29	2.90	3.78	3.84	1.42	10.6	10.8	11.3	11.7	7.9	4.4	18.0
16	15-00	194	2.99	3.71	4.41	4.42	1.90	11.9	12.0	13.7	13.3	9.2	4.9	16.4
16	18-00	204	3.05	4.13	5.25	5.26	1.75	11.8	12.0	12.9	11.7	8.8	4.9	18.0
16	21-00	192	2.61	3.17	3.81	3.95	1.62	11.7	12.0	14.1	14.1	9.4	5.4	16.4
17	00-00	193	2.77	3.42	4.03	4.26	1.71	11.7	12.0	12.5	11.7	9.3	5.9	15.6
17	03-00	190	3.07	4.07	5.49	5.90	1.87	11.8	12.3	12.9	13.3	9.4	6.1	18.0
17	06-00	182	3.41	4.29	5.65	5.98	2.14	12.4	12.5	11.3	10.9	9.8	6.0	16.4
17	09-00	211	3.05	3.91	5.02	5.31	1.77	11.1	11.7	11.3	12.5	8.5	5.1	17.2
17	15-00	203	2.81	3.57	4.47	5.02	1.71	11.9	12.6	12.5	13.3	8.8	5.3	17.2
17	18-00	180	3.48	4.23	4.73	4.78	2.24	12.4	11.8	13.3	13.3	9.9	5.8	16.4
17	21-00	172	4.06	5.21	5.98	6.29	2.46	12.7	12.5	12.1	12.5	10.4	6.5	17.2
18	01-04	177	4.34	5.50	7.03	7.19	2.68	12.7	12.9	13.3	13.3	10.1	6.5	17.2
18	01-44	183	4.00	5.16	6.60	6.81	2.42	12.8	12.9	12.5	13.3	9.8	6.1	18.8
18	03-00	190	4.03	4.96	5.93	6.09	2.48	12.2	12.3	11.3	13.3	9.5	5.8	15.6
18	06-00	183	3.54	4.82	7.28	8.34	2.22	12.4	13.0	11.7	12.5	9.8	5.4	17.2
18	09-00	189	3.33	3.98	4.89	5.13	2.10	12.0	11.5	12.5	12.5	9.5	5.2	16.4
18	12-00	209	3.41	4.42	5.39	5.46	2.11	11.4	11.8	13.3	14.1	8.5	5.1	16.4
18	15-00	187	4.34	5.24	6.63	6.84	2.82	11.3	11.3	11.7	12.5	9.6	6.1	16.4
18	17-53	195	4.14	5.26	6.72	6.74	2.59	12.1	11.9	11.7	11.7	9.2	5.5	16.4
18	21-00	198	3.89	4.90	6.43	7.19	2.34	11.8	12.2	12.1	11.7	9.0	5.5	18.0
19	03-00	179	3.90	4.80	5.94	6.10	2.43	12.2	12.2	12.9	12.5	10.0	5.9	18.8
19	06-00	186	3.44	4.25	4.90	5.08	2.21	11.5	11.6	12.5	11.7	9.6	6.0	18.0
19	09-00	206	2.79	3.47	4.47	4.58	1.72	11.3	11.3	9.4	8.6	8.6	5.7	17.2
19	12-00	205	3.05	3.78	5.05	5.16	1.87	11.0	10.8	10.2	10.9	8.7	5.9	15.6
19	15-00	188	2.88	3.55	4.34	4.37	1.92	10.9	11.4	11.3	13.3	9.5	6.1	17.2
19	18-00	204	2.57	3.10	3.71	3.76	1.61	10.8	10.9	10.9	10.9	8.8	6.0	17.2
19	21-00	210	2.28	2.87	3.59	3.69	1.39	11.0	11.3	10.5	10.9	8.5	6.0	15.6
20	00-00	202	2.32	2.83	3.45	3.54	1.47	10.9	11.2	10.9	10.9	8.8	5.2	16.4
20	03-00	184	2.33	2.87	3.68	4.05	1.54	11.6	11.4	11.3	10.9	9.7	5.2	15.6
20	06-00	194	2.50	3.21	3.94	4.22	1.52	11.4	11.3	12.1	10.9	9.2	4.7	16.4
20	09-00	221	2.03	2.55	3.39	3.76	1.23	11.3	11.6	11.3	11.7	8.1	4.5	14.8
21	03-00	318	1.55	1.99	2.55	2.67	0.94	8.2	9.6	9.1	10.2	5.6	3.7	14.1
21	06-00	349	1.45	1.86	2.57	2.70	0.88	7.1	7.7	9.1	10.2	5.1	3.6	14.1
21	15-00	342	1.60	2.00	2.52	2.61	1.04	6.4	6.9	6.2	5.5	5.2	3.9	11.7

DIA	HORA	NA	HS (m)	H10 (m)	H100 (m)	HMAX (m)	HMED (m)	THS (s)	TH10 (s)	TH100 (s)	THMAX (s)	TZ (s)	TC (s)	TMAX (s)
21	18-00	344	1.41	1.76	2.40	2.90	0.89	6.8	7.2	6.0	6.2	5.2	3.8	12.5
21	21-00	356	1.56	1.99	2.50	2.80	1.01	6.1	6.4	6.4	7.0	5.0	3.9	12.5
22	03-00	338	1.56	1.97	2.58	2.71	0.99	6.4	6.5	7.0	7.0	5.3	3.9	11.7
22	06-00	330	1.40	1.72	2.13	2.17	0.90	6.7	6.8	7.3	7.8	5.4	3.9	12.5
22	09-00	334	1.30	1.62	1.95	2.11	0.82	7.1	7.5	7.6	7.0	5.4	3.8	12.5
22	15-00	314	1.52	1.93	2.32	2.41	0.97	7.3	8.0	6.8	7.0	5.7	4.1	12.5
22	18-00	305	1.66	2.04	2.40	2.42	1.04	7.5	8.2	7.8	7.8	5.9	4.5	11.7
22	21-00	275	1.76	2.22	2.87	3.04	1.08	8.2	8.3	8.9	7.8	6.5	4.8	12.5
23	03-00	253	1.85	2.44	3.13	3.32	1.16	8.7	8.9	8.6	8.6	7.1	4.8	12.5
23	06-00	271	1.87	2.42	3.04	3.25	1.14	8.6	9.1	9.9	9.4	6.6	4.5	12.5
23	09-00	301	1.80	2.25	2.82	2.98	1.13	8.2	8.2	8.3	7.8	6.0	3.8	14.1
23	15-00	319	2.10	2.66	3.66	4.40	1.33	6.6	6.8	6.2	6.2	5.6	4.3	11.7
23	18-00	300	1.90	2.39	2.89	3.07	1.22	7.7	7.5	8.3	10.9	6.0	4.1	12.5
23	21-00	312	1.68	2.12	2.52	2.60	1.06	7.5	7.9	8.6	5.5	5.7	4.1	12.5
24	03-00	302	1.66	2.04	2.48	2.56	1.04	7.7	8.2	8.6	7.8	5.9	4.1	12.5
24	06-00	342	1.74	2.18	2.81	2.86	1.13	6.6	6.4	5.7	6.2	5.2	3.9	12.5
24	09-00	312	1.50	1.82	2.18	2.36	0.96	7.2	7.3	7.0	7.0	5.7	4.3	11.7
25	03-00	330	1.30	1.59	1.98	2.14	0.79	7.4	7.6	8.1	7.0	5.4	3.6	12.5
25	06-00	297	1.43	1.72	2.28	2.37	0.92	7.6	7.9	8.9	8.6	6.0	4.3	10.9
25	09-00	270	1.55	1.93	2.39	2.60	0.97	8.2	8.8	7.3	6.2	6.6	4.8	14.8
25	12-00	240	1.80	2.13	2.56	2.67	1.16	8.5	8.9	8.2	8.6	7.5	5.2	14.1
25	15-00	261	1.75	2.26	3.07	3.15	1.12	9.0	9.2	9.6	9.4	6.9	4.2	13.3
25	18-00	276	1.54	1.97	2.40	2.45	0.94	9.0	9.6	9.9	7.8	6.5	3.9	14.1
25	21-00	268	1.41	1.80	2.26	2.44	0.85	9.0	9.1	10.2	8.6	6.7	4.3	14.8
26	03-00	256	1.19	1.46	1.83	1.97	0.74	8.8	8.8	8.6	9.4	7.0	4.9	15.6
26	06-00	263	1.26	1.60	2.06	2.27	0.78	8.8	8.6	8.3	9.4	6.8	4.6	12.5
26	09-00	315	1.05	1.29	1.68	1.90	0.65	8.0	8.6	7.8	8.6	5.7	3.8	12.5
26	12-00	318	0.92	1.12	1.49	1.60	0.58	8.0	8.3	7.3	7.0	5.6	3.6	13.3
26	15-00	364	1.12	1.40	1.81	1.92	0.73	6.2	6.5	6.2	4.7	4.9	3.7	12.5
26	18-00	361	1.46	1.75	2.20	2.46	0.96	5.8	5.7	6.1	6.2	5.0	4.0	11.7
26	21-00	323	1.75	2.15	2.67	2.82	1.15	6.6	7.1	5.7	5.5	5.5	4.0	12.5
27	00-00	306	1.49	1.89	2.45	2.87	0.95	7.8	8.2	8.6	7.0	5.9	4.0	13.3
27	03-00	280	2.17	2.76	3.49	3.65	1.36	8.3	9.2	9.4	10.9	6.4	4.3	14.1
27	06-00	282	2.14	2.73	3.41	3.51	1.33	9.1	9.8	10.4	11.7	6.3	4.0	14.1
27	09-00	269	2.32	3.00	3.82	4.17	1.42	9.1	9.9	9.6	9.4	6.7	4.1	14.1
27	15-00	261	2.78	3.49	4.29	4.42	1.75	8.8	8.8	9.1	10.2	6.8	4.3	13.3
27	18-00	255	3.08	3.84	5.00	5.25	1.93	9.4	10.2	9.9	10.2	7.0	4.7	14.1
27	18-50	246	3.33	4.13	4.95	4.96	2.15	9.4	10.2	10.5	10.9	7.3	4.9	15.6
27	21-00	255	3.19	4.05	5.07	5.32	2.02	8.5	9.3	8.6	9.4	7.0	4.9	14.8
28	00-00	253	3.02	3.75	4.51	4.64	1.90	9.2	9.8	8.3	6.2	7.1	4.8	14.1
28	03-00	261	2.87	3.70	5.00	5.25	1.76	8.8	8.8	9.1	9.4	6.8	4.7	14.8
28	06-00	235	2.89	3.55	4.36	4.71	1.86	9.4	9.7	9.8	10.9	7.6	4.9	15.6
28	09-00	245	2.73	3.35	4.43	4.71	1.65	9.6	9.7	9.8	10.2	7.3	5.0	14.1
28	12-00	215	2.77	3.28	3.74	3.78	1.79	9.9	9.8	10.2	10.2	8.3	5.2	14.1
28	15-00	224	2.47	3.02	4.30	4.63	1.55	9.9	9.7	9.8	10.2	8.0	5.6	14.1

PARAMETROS CALCULADOS PELO METODO DIRECTO TERCEIRA FEV 2006

DIA	HORA	NA	HS (m)	H10 (m)	H100 (m)	HMAX (m)	HMED (m)	THS (s)	TH10 (s)	TH100 (s)	THMAX (s)	TZ (s)	TC (s)	TMAX (s)
28	18-00	222	2.20	2.84	3.77	3.94	1.40	9.7	9.8	9.4	9.4	8.1	5.5	14.1
28	21-00	214	2.33	2.78	3.38	3.49	1.54	9.9	9.7	9.8	9.4	8.4	5.8	13.3

DIA	HORA	NA	HS (m)	H10 (m)	H100 (m)	HMAX (m)	HMED (m)	THS (s)	TH10 (s)	TH100 (s)	THMAX (s)	TZ (s)	TC (s)	TMAX (s)
01	03-00	228	1.98	2.43	2.88	2.94	1.28	9.1	9.5	9.4	9.4	7.9	5.7	13.3
01	06-00	220	1.86	2.22	2.72	2.92	1.22	9.1	8.8	8.6	8.6	8.1	6.2	14.1
01	09-00	236	1.77	2.22	2.92	2.93	1.14	9.0	9.1	10.2	10.9	7.6	5.4	13.3
01	21-00	240	1.65	2.09	2.86	2.99	1.02	8.9	9.3	9.0	8.6	7.4	4.7	15.6
02	00-00	244	1.57	1.97	2.66	2.88	0.97	8.8	9.3	8.2	8.6	7.3	5.0	15.6
02	03-00	242	1.47	1.80	2.22	2.25	0.94	9.0	9.0	9.0	7.0	7.4	4.7	14.8
02	06-00	236	1.30	1.64	2.11	2.14	0.83	9.4	9.2	7.8	8.6	7.6	4.8	16.4
02	09-00	238	1.52	1.90	2.26	2.27	0.95	9.6	10.6	10.9	10.2	7.5	5.1	15.6
02	12-00	233	1.70	2.09	2.51	2.59	1.07	9.2	9.2	10.2	8.6	7.7	5.6	14.8
02	21-00	238	1.48	1.86	2.95	3.33	0.91	9.8	9.7	10.5	9.4	7.5	4.5	14.1
03	00-00	275	1.55	1.96	2.47	2.48	0.93	9.4	10.2	10.4	10.2	6.5	3.7	14.8
03	03-00	260	1.56	1.97	2.57	2.61	0.90	10.4	10.9	11.2	10.9	6.9	3.8	16.4
03	06-00	242	1.43	1.74	2.25	2.32	0.90	10.3	11.2	11.3	10.9	7.4	4.1	15.6
03	15-00	309	1.70	2.19	3.05	3.53	1.05	8.2	9.1	10.2	11.7	5.8	3.6	14.1
03	18-00	261	1.54	1.93	2.44	2.68	0.91	10.2	10.7	11.7	13.3	6.8	3.7	15.6
03	21-00	249	1.69	2.10	2.73	2.86	1.05	10.1	10.8	11.3	10.9	7.2	4.2	14.1
04	00-00	263	2.03	2.51	3.14	3.32	1.29	9.2	10.5	10.4	7.8	6.8	4.2	14.1
04	03-00	280	2.03	2.59	3.66	4.02	1.27	8.3	9.0	9.4	8.6	6.4	4.2	14.8
04	06-00	260	2.15	2.69	3.32	3.55	1.36	9.3	9.6	10.7	10.2	6.9	4.4	14.1
04	12-00	204	3.17	3.94	4.74	4.92	1.94	11.3	11.4	11.3	11.7	8.8	5.8	14.8
04	15-00	204	2.87	3.82	5.00	5.21	1.74	11.1	11.6	11.3	10.9	8.8	5.7	15.6
04	18-00	220	2.06	2.52	3.46	4.04	1.29	10.1	9.9	9.4	9.4	8.2	5.4	15.6
04	21-00	204	2.08	2.50	3.06	3.12	1.32	10.6	10.8	10.5	10.2	8.8	5.7	14.1
05	03-00	234	1.66	2.17	2.76	2.79	1.02	10.3	10.1	9.0	9.4	7.6	4.3	14.8
05	09-00	226	1.76	2.40	3.02	3.05	1.02	10.2	10.4	10.5	10.2	7.9	5.0	14.1
05	12-00	228	1.73	2.17	2.62	2.62	1.04	10.3	10.3	10.9	10.9	7.8	4.9	14.8
05	15-00	225	1.51	1.95	2.39	2.40	0.93	10.2	10.4	11.3	10.9	7.9	4.6	14.8
05	18-00	222	1.47	1.87	2.34	2.45	0.89	10.5	10.3	9.8	10.2	8.0	5.0	15.6
05	21-00	207	1.50	1.87	2.57	2.62	0.95	11.1	11.1	9.8	9.4	8.6	5.2	15.6
06	00-00	209	1.64	2.12	2.68	2.83	1.00	11.3	11.6	10.2	10.2	8.5	5.0	14.8
06	03-00	228	1.56	1.98	2.62	2.65	0.96	10.6	10.9	10.9	10.9	7.9	4.2	14.1
06	18-00	255	1.38	1.82	2.47	2.74	0.81	10.2	10.3	10.2	10.2	7.0	3.7	14.1
06	21-00	257	1.31	1.61	1.94	2.04	0.83	10.0	10.5	10.7	10.9	7.0	4.2	14.1
07	03-00	318	1.33	1.73	2.36	2.47	0.83	8.2	9.4	9.9	10.2	5.6	3.6	13.3
07	09-00	347	1.33	1.68	2.30	2.43	0.87	6.5	7.4	8.6	6.2	5.2	3.9	13.3
07	12-00	337	1.33	1.67	2.27	2.71	0.88	6.9	7.1	7.0	9.4	5.3	3.9	13.3
07	18-00	352	1.38	1.74	2.29	2.64	0.90	6.4	6.7	6.1	4.7	5.1	3.7	10.9
07	21-00	344	1.24	1.52	1.93	2.11	0.80	6.4	6.9	6.0	6.2	5.2	3.8	12.5
08	00-00	349	1.17	1.47	1.95	2.11	0.77	6.3	7.1	7.3	9.4	5.1	3.8	11.7
08	03-00	381	1.19	1.44	1.68	1.82	0.76	5.7	6.2	6.4	6.2	4.7	3.6	12.5
08	06-00	352	1.14	1.44	1.83	1.99	0.72	6.5	6.5	5.9	5.5	5.1	3.5	14.1
08	09-00	357	1.19	1.49	1.78	1.90	0.78	6.2	6.8	6.8	8.6	5.0	3.7	11.7
08	12-00	356	1.07	1.31	1.65	1.75	0.69	6.5	7.7	5.7	6.2	5.0	3.6	14.1
08	21-00	280	1.00	1.22	1.59	1.70	0.66	8.1	8.3	10.2	9.4	6.4	4.2	12.5
09	03-00	264	1.06	1.29	1.60	1.79	0.67	8.6	8.5	8.3	7.8	6.8	4.4	14.1

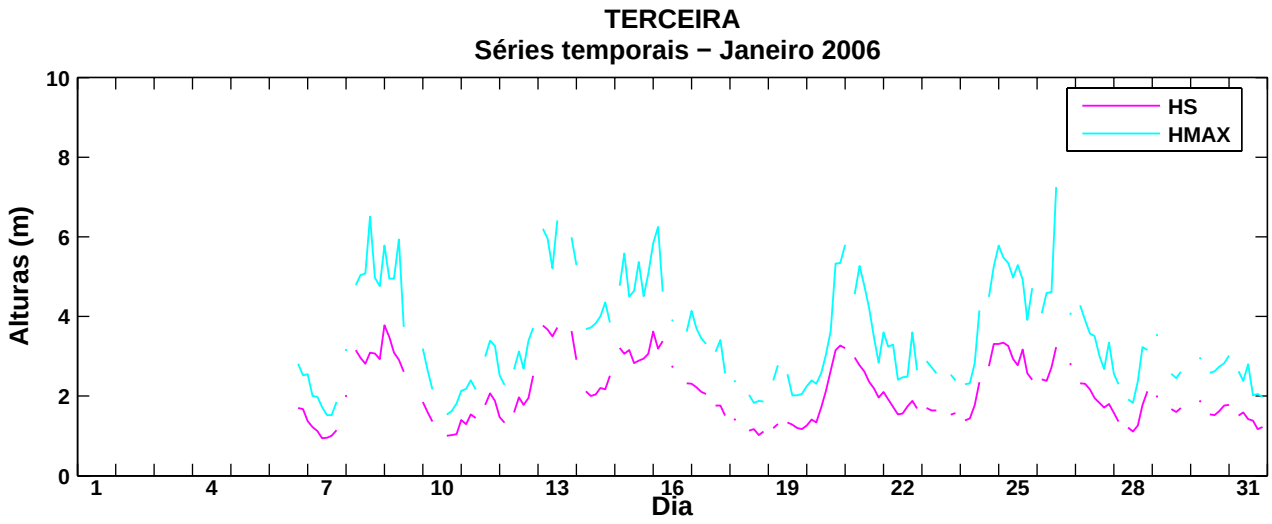
DIA	HORA	NA	HS (m)	H10 (m)	H100 (m)	HMAX (m)	HMED (m)	THS (s)	TH10 (s)	TH100 (s)	THMAX (s)	TZ (s)	TC (s)	TMAX (s)
09	06-00	262	1.03	1.33	1.92	2.43	0.64	9.2	10.1	13.0	11.7	6.8	3.8	16.4
09	09-00	238	1.37	1.70	2.19	2.37	0.86	10.1	10.2	10.2	10.2	7.5	4.4	16.4
09	12-00	208	1.76	2.17	2.55	2.65	1.11	10.9	11.5	9.8	10.2	8.6	5.3	17.2
09	15-00	207	1.88	2.30	3.17	3.51	1.21	11.0	10.8	10.2	9.4	8.6	5.1	16.4
09	18-00	207	1.97	2.49	3.18	3.32	1.22	10.6	10.4	10.2	10.9	8.7	5.4	14.8
09	21-00	202	1.85	2.19	2.78	3.01	1.20	11.0	11.2	10.9	10.2	8.9	4.5	15.6
10	00-00	251	1.67	2.10	2.84	2.98	0.99	10.0	10.2	10.2	10.9	7.1	4.0	15.6
10	03-00	277	1.61	2.17	2.72	2.97	0.93	9.7	10.4	10.2	9.4	6.5	4.0	14.1
10	06-00	245	1.51	1.81	2.25	2.41	0.96	10.1	10.5	10.2	10.9	7.3	3.9	14.1
10	12-00	259	1.51	1.92	2.36	2.39	0.93	10.0	10.6	10.9	10.9	6.9	3.9	14.1
10	15-00	303	1.36	1.65	2.05	2.19	0.86	8.6	10.2	11.2	12.5	5.9	3.8	13.3
10	21-00	287	1.42	1.78	2.24	2.33	0.90	8.8	10.4	10.7	10.9	6.2	3.7	15.6
11	00-00	257	1.76	2.19	2.87	3.11	1.09	10.6	12.6	13.0	13.3	7.0	3.9	17.2
11	03-00	299	1.84	2.38	3.04	3.14	1.16	8.2	10.0	11.5	12.5	6.0	3.9	14.8
11	06-00	307	1.86	2.28	2.78	2.93	1.20	7.7	8.5	9.1	12.5	5.8	4.0	14.1
11	09-00	316	1.97	2.46	2.90	3.00	1.26	7.5	7.9	7.0	7.8	5.7	4.2	15.6
11	12-00	306	2.02	2.49	3.08	3.15	1.31	7.2	7.8	7.3	7.8	5.8	4.2	14.8
11	15-00	314	2.33	2.92	3.90	4.29	1.48	7.0	6.9	6.2	6.2	5.7	4.3	10.9
11	18-00	314	1.99	2.52	3.40	3.70	1.24	6.9	7.0	7.3	7.8	5.7	4.3	11.7
12	03-00	296	1.94	2.43	3.04	3.19	1.22	7.0	6.9	6.5	7.0	6.0	4.7	15.6
12	06-00	263	1.85	2.25	2.86	3.04	1.19	8.0	8.1	7.6	8.6	6.8	5.0	14.8
12	09-00	259	1.58	1.93	2.52	2.60	1.03	9.1	9.4	7.6	7.0	6.9	4.7	16.4
12	12-00	245	1.65	2.12	2.90	3.18	1.07	9.7	10.2	10.9	10.9	7.3	4.4	14.8
12	15-00	254	1.74	2.19	2.72	2.81	1.12	9.1	9.9	9.1	10.9	7.0	4.6	14.8
12	18-00	243	1.85	2.30	2.77	2.85	1.13	10.1	10.6	12.1	9.4	7.4	4.5	15.6
12	21-00	235	1.83	2.35	3.11	3.23	1.13	9.5	10.0	9.4	10.2	7.6	5.4	17.2
13	00-00	239	1.74	2.13	2.61	2.81	1.08	9.6	9.5	9.0	7.8	7.5	5.5	16.4
13	03-00	261	1.50	1.87	2.38	2.47	0.95	9.2	9.8	8.6	8.6	6.9	4.6	14.8
13	06-00	263	1.72	2.24	3.06	3.16	1.09	9.2	10.0	9.4	10.9	6.8	4.1	14.1
13	09-00	308	1.61	1.99	2.59	3.11	1.02	7.9	8.5	7.8	7.0	5.8	3.9	12.5
13	12-00	328	1.60	2.01	2.56	2.61	1.02	7.1	7.7	9.4	9.4	5.5	3.8	12.5
13	15-00	345	1.58	2.01	2.80	2.83	1.01	6.5	6.7	7.0	7.8	5.2	4.0	10.9
13	18-00	349	1.51	1.84	2.34	2.52	0.98	6.4	6.6	7.0	10.2	5.1	3.9	12.5
13	21-00	348	1.34	1.66	2.11	2.23	0.85	6.6	6.9	7.3	5.5	5.1	3.8	11.7
14	21-00	304	2.36	2.96	3.69	3.99	1.48	7.1	7.6	7.0	7.0	5.9	4.3	11.7
15	00-00	284	1.91	2.42	3.08	3.27	1.22	7.9	8.1	7.3	7.8	6.3	4.1	16.4
15	12-00	294	2.03	2.57	3.19	3.26	1.26	7.7	8.0	8.9	10.9	6.1	4.1	13.3
15	15-00	271	1.98	2.40	2.66	2.69	1.31	8.4	9.3	7.6	8.6	6.6	4.4	14.8
15	18-00	238	1.97	2.41	3.03	3.20	1.28	9.9	10.7	9.8	7.8	7.5	4.5	17.2
15	21-00	266	2.12	2.68	3.41	3.70	1.35	9.2	9.8	9.6	7.0	6.7	4.4	15.6
16	00-00	271	2.69	3.35	4.73	5.47	1.70	8.8	9.2	10.4	9.4	6.6	4.7	14.8
16	12-00	286	2.22	2.71	3.41	3.50	1.41	7.8	7.6	7.8	8.6	6.3	4.5	14.8
16	15-00	296	2.54	3.26	4.53	5.50	1.60	7.5	7.6	8.6	8.6	6.1	4.6	12.5
16	18-00	278	2.25	2.78	3.70	3.88	1.48	7.5	7.7	7.8	7.8	6.4	4.5	14.1
16	21-00	280	2.14	2.61	3.15	3.35	1.41	7.9	8.2	8.1	7.8	6.4	4.4	13.3

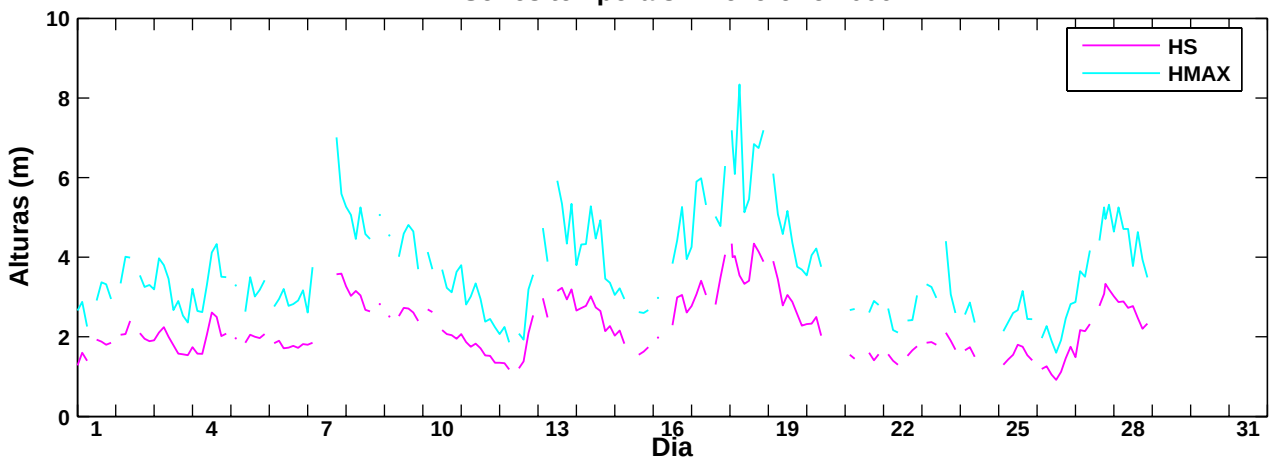
DIA	HORA	NA	HS (m)	H10 (m)	H100 (m)	HMAX (m)	HMED (m)	THS (s)	TH10 (s)	TH100 (s)	THMAX (s)	TZ (s)	TC (s)	TMAX (s)
17	12-00	280	2.63	3.25	4.19	4.76	1.68	8.1	8.1	7.8	8.6	6.4	4.8	14.1
17	15-00	277	2.46	3.07	3.79	4.20	1.56	8.1	7.9	7.8	7.8	6.5	4.4	12.5
17	18-00	281	2.28	2.94	3.75	3.81	1.42	7.7	7.8	8.1	7.0	6.4	4.5	11.7
17	21-00	290	2.06	2.55	3.00	3.17	1.28	7.8	7.8	8.1	8.6	6.2	4.4	11.7
18	00-00	292	1.99	2.44	2.97	3.05	1.23	7.6	8.2	7.8	7.0	6.1	4.5	13.3
18	03-00	236	2.54	3.03	3.66	3.91	1.60	9.0	8.8	8.6	8.6	7.6	4.9	14.8
18	06-00	236	2.54	3.29	4.12	4.18	1.56	9.3	9.2	9.0	8.6	7.5	5.0	13.3
18	09-00	242	2.42	3.06	3.84	3.86	1.51	9.3	9.9	9.0	8.6	7.4	5.3	14.1
18	18-00	221	2.63	3.27	3.96	4.05	1.68	9.7	10.0	9.4	8.6	8.1	5.2	16.4
19	21-00	244	2.68	3.31	4.00	4.00	1.68	10.0	10.2	11.3	10.9	7.3	4.8	15.6
20	00-00	245	2.78	3.63	5.07	5.43	1.73	9.4	10.1	10.2	10.2	7.3	4.7	16.4
20	03-00	248	2.47	3.16	4.22	4.41	1.53	9.6	10.2	9.8	9.4	7.2	4.7	14.1
20	06-00	230	2.50	3.09	4.12	4.30	1.58	10.0	10.5	9.8	9.4	7.8	4.9	14.8
20	12-00	213	2.20	2.72	3.28	3.30	1.42	10.2	10.1	12.5	13.3	8.4	5.0	14.8
20	18-00	221	2.02	2.60	3.35	3.54	1.29	10.1	10.0	9.4	9.4	8.1	5.4	15.6
20	21-00	217	2.13	2.73	3.74	3.79	1.34	9.9	10.0	10.2	9.4	8.2	5.9	14.1
21	00-00	243	1.75	2.17	2.77	2.82	1.05	9.6	9.7	10.2	10.2	7.3	4.4	14.1
21	03-00	255	1.62	1.98	2.40	2.62	1.00	9.5	9.8	9.4	10.2	7.0	3.8	14.1
21	09-00	286	1.49	1.80	2.36	2.43	0.95	8.4	8.8	8.6	7.0	6.3	4.2	12.5
21	15-00	274	1.43	1.81	2.24	2.37	0.88	9.3	9.5	9.4	8.6	6.5	3.8	13.3
21	18-00	290	1.31	1.67	2.31	2.41	0.81	8.6	9.0	9.6	9.4	6.2	3.8	12.5
21	21-00	341	1.46	1.87	2.26	2.38	0.94	6.4	6.7	7.3	7.8	5.3	4.0	12.5
22	00-00	326	1.91	2.37	3.01	3.15	1.17	7.3	7.3	8.1	7.8	5.5	3.9	10.9
22	03-00	335	1.53	1.97	2.49	2.64	0.97	7.0	7.4	7.6	7.0	5.4	3.8	11.7
22	09-00	305	1.96	2.42	3.03	3.20	1.26	7.3	7.5	7.8	7.8	5.9	4.4	11.7
22	12-00	327	1.72	2.11	2.85	3.22	1.09	7.0	7.6	7.8	7.8	5.5	4.0	12.5
22	18-00	339	1.69	2.10	2.56	2.62	1.04	7.2	7.4	7.3	8.6	5.3	3.6	10.9
22	21-00	306	1.78	2.28	3.16	3.49	1.14	7.2	7.9	8.6	9.4	5.9	4.0	12.5
23	00-00	335	1.89	2.31	2.87	2.88	1.22	6.7	7.0	7.3	7.8	5.3	3.9	10.9
23	03-00	319	1.90	2.43	3.34	3.38	1.17	7.5	7.7	7.6	5.5	5.6	3.9	11.7
23	06-00	339	1.81	2.21	2.96	3.17	1.16	7.0	7.3	7.8	7.0	5.3	3.8	12.5
23	09-00	331	1.91	2.44	3.03	3.14	1.19	6.9	7.2	6.5	7.8	5.4	3.9	11.7
23	12-00	293	2.00	2.50	3.05	3.18	1.30	8.0	8.4	8.6	7.8	6.1	4.0	12.5
23	15-00	296	1.91	2.36	2.92	3.31	1.21	8.0	8.5	8.3	9.4	6.0	4.1	13.3
23	18-00	268	1.98	2.56	3.25	3.39	1.21	9.0	9.5	9.1	9.4	6.7	4.2	14.8
23	21-00	271	1.74	2.24	2.78	2.90	1.09	8.4	8.7	9.6	8.6	6.6	4.5	12.5
24	03-00	321	1.82	2.34	2.99	3.30	1.14	7.1	7.3	7.0	7.8	5.6	4.1	13.3
24	09-00	364	1.78	2.29	2.75	2.90	1.12	6.1	6.9	7.6	8.6	4.9	3.7	10.2
24	12-00	332	1.94	2.46	3.33	3.58	1.25	6.8	7.4	7.6	7.0	5.4	4.1	10.9
24	15-00	304	2.38	2.85	3.76	4.07	1.47	7.1	7.3	7.3	7.0	5.9	4.4	11.7
24	18-00	300	2.19	2.75	3.47	3.59	1.41	7.3	7.4	7.3	7.0	6.0	4.1	11.7
24	21-00	283	2.13	2.63	3.36	3.91	1.37	7.8	7.7	8.6	8.6	6.3	4.5	11.7
25	03-00	284	2.22	2.79	3.44	3.59	1.41	8.1	8.4	9.1	7.0	6.3	4.4	12.5
25	06-00	293	2.28	2.83	3.55	3.82	1.44	8.0	8.4	8.1	7.0	6.1	4.2	13.3
26	00-00	267	2.18	2.78	3.85	4.18	1.36	8.7	8.6	8.3	9.4	6.7	4.6	13.3

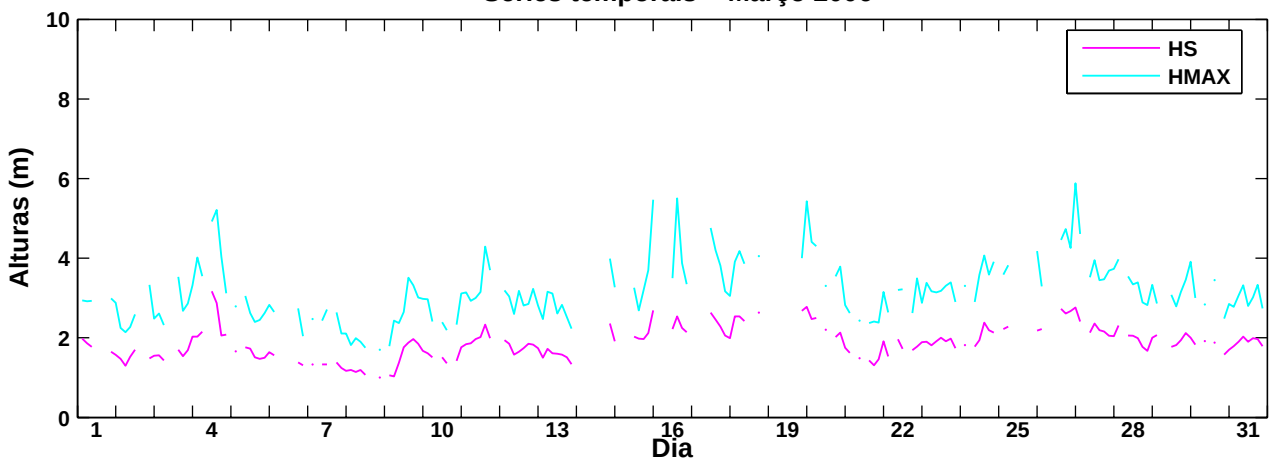
DIA	HORA	NA	HS (m)	H10 (m)	H100 (m)	HMAX (m)	HMED (m)	THS (s)	TH10 (s)	TH100 (s)	THMAX (s)	TZ (s)	TC (s)	TMAX (s)
26	03-00	269	2.22	2.82	3.27	3.29	1.37	8.5	8.8	9.6	10.2	6.6	4.5	14.1
26	15-00	223	2.73	3.38	4.28	4.46	1.72	10.3	10.4	9.4	9.4	8.0	4.8	14.8
26	18-00	245	2.61	3.33	4.61	4.73	1.59	9.9	10.1	10.2	10.2	7.3	4.6	14.8
26	21-00	226	2.67	3.23	4.20	4.26	1.72	9.4	9.1	9.0	8.6	7.9	5.6	14.8
27	00-00	221	2.76	3.50	5.19	5.88	1.73	10.1	10.5	9.8	8.6	8.1	5.6	14.1
27	03-00	214	2.41	3.11	4.18	4.61	1.51	10.3	10.2	10.2	10.2	8.4	5.6	14.1
27	09-00	214	2.13	2.64	3.38	3.52	1.38	10.4	10.3	10.2	9.4	8.4	5.4	14.1
27	12-00	214	2.36	3.02	3.82	3.95	1.50	10.4	10.4	11.3	12.5	8.4	4.8	15.6
27	15-00	220	2.19	2.76	3.38	3.45	1.39	9.9	10.0	10.2	10.9	8.1	5.6	14.8
27	18-00	223	2.16	2.67	3.37	3.47	1.34	10.5	10.6	10.5	10.2	8.0	4.7	15.6
27	21-00	240	2.05	2.52	3.42	3.69	1.25	10.1	10.6	10.9	10.9	7.5	4.4	17.2
28	00-00	246	2.04	2.57	3.48	3.73	1.25	10.4	10.7	12.1	11.7	7.2	4.0	17.2
28	03-00	267	2.31	2.84	3.59	3.97	1.48	8.2	8.6	8.6	7.0	6.7	4.6	14.8
28	09-00	261	2.06	2.69	3.37	3.54	1.25	9.9	11.2	10.9	12.5	6.9	4.0	15.6
28	12-00	244	2.05	2.64	3.34	3.34	1.19	11.0	11.7	12.5	12.5	7.3	4.2	16.4
28	15-00	263	1.99	2.52	3.29	3.39	1.24	9.6	9.6	10.2	10.9	6.8	4.4	18.0
28	18-00	257	1.77	2.18	2.77	2.89	1.14	9.7	10.2	10.7	9.4	7.0	4.4	16.4
28	21-00	304	1.67	2.11	2.67	2.82	1.05	8.1	9.7	9.4	9.4	5.9	3.9	14.1
29	00-00	292	2.00	2.61	3.25	3.33	1.25	8.7	9.7	6.5	7.8	6.1	3.8	13.3
29	03-00	280	2.07	2.50	2.81	2.86	1.32	8.1	8.5	8.9	7.0	6.4	4.4	14.8
29	12-00	293	1.77	2.22	2.84	3.08	1.12	8.6	9.8	10.7	12.5	6.1	3.7	14.8
29	15-00	273	1.82	2.30	2.69	2.79	1.14	9.7	10.8	10.2	9.4	6.6	3.9	15.6
29	18-00	256	1.94	2.42	3.05	3.15	1.21	9.8	10.5	11.2	10.9	7.0	4.1	16.4
29	21-00	246	2.12	2.60	3.33	3.46	1.36	9.9	10.9	12.5	12.5	7.2	4.1	15.6
30	00-00	248	2.00	2.56	3.53	3.91	1.26	10.2	10.4	10.9	9.4	7.2	4.3	17.2
30	03-00	229	1.83	2.32	2.90	3.00	1.13	10.3	10.6	10.5	9.4	7.8	4.6	15.6
30	09-00	235	1.92	2.30	2.78	2.84	1.22	10.2	10.8	10.5	10.2	7.6	5.0	15.6
30	15-00	289	1.88	2.40	3.18	3.45	1.18	8.6	10.2	8.1	7.8	6.2	3.8	14.1
30	21-00	278	1.58	1.98	2.34	2.48	1.00	8.8	10.0	8.6	6.2	6.4	4.2	14.1
31	00-00	261	1.70	2.14	2.74	2.85	1.03	9.5	10.2	9.6	10.2	6.9	4.2	14.1
31	03-00	238	1.79	2.26	2.74	2.78	1.11	10.1	10.2	9.8	10.9	7.5	4.4	14.8
31	06-00	211	1.90	2.39	2.94	3.06	1.20	10.8	10.8	10.9	12.5	8.4	5.3	17.2
31	09-00	221	2.03	2.50	3.17	3.32	1.21	11.0	11.6	11.3	10.9	8.1	5.0	15.6
31	12-00	233	1.90	2.27	2.73	2.80	1.23	10.2	10.8	10.9	10.9	7.7	4.2	14.1
31	15-00	239	1.99	2.50	2.92	3.02	1.23	11.1	11.3	10.9	10.2	7.5	3.9	15.6
31	18-00	232	1.97	2.49	3.15	3.33	1.26	10.1	10.6	10.2	9.4	7.7	4.5	15.6
31	21-00	232	1.79	2.22	2.70	2.74	1.12	10.7	11.0	11.3	10.9	7.7	4.5	14.8

ANEXO B

Gráficos temporais de HS, HMAX, TZ, TMAX, THS e THMAX

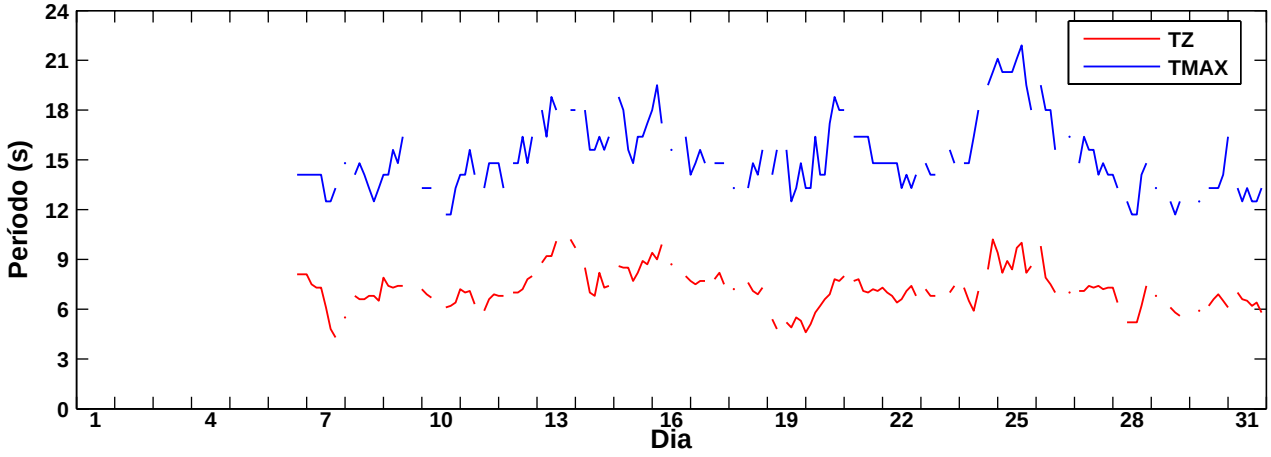

TERCEIRA
Séries temporais − Janeiro 2006
HS
HMAX
Alturas (m)
Dia
0
2
4
6
8
10
1
4
7
10
13
16
19
22
25
28
31


Séries temporais − Fevereiro 2006
HS
HMAX
Alturas (m)
Dia
0
2
4
6
8
10
1
4
7
10
13
16
19
22
25
28
31

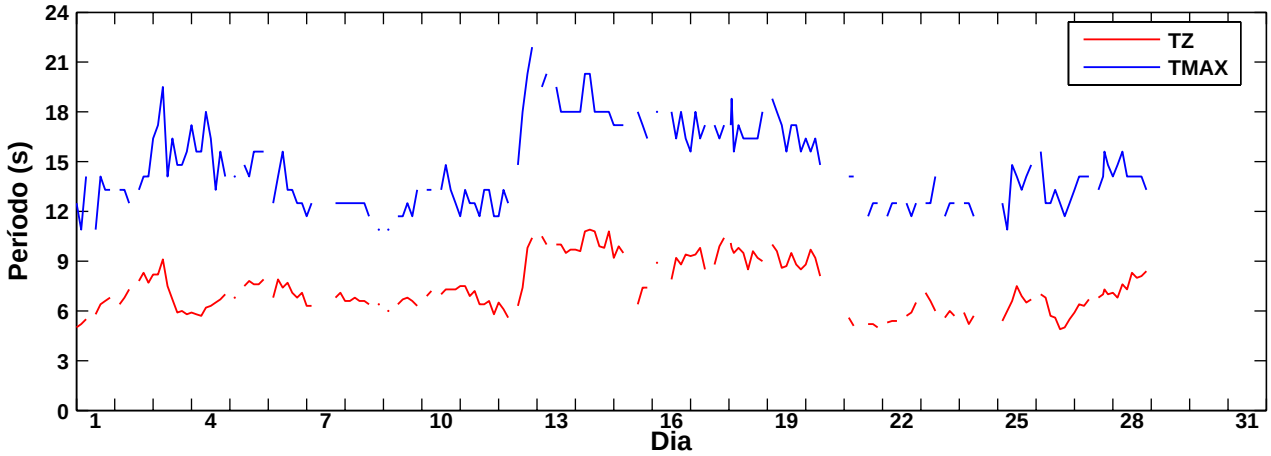

Séries temporais − Março 2006
HS
HMAX
Alturas (m)
Dia
0
2
4
6
8
10
1
4
7
10
13
16
19
22
25
28
31

TERCEIRA

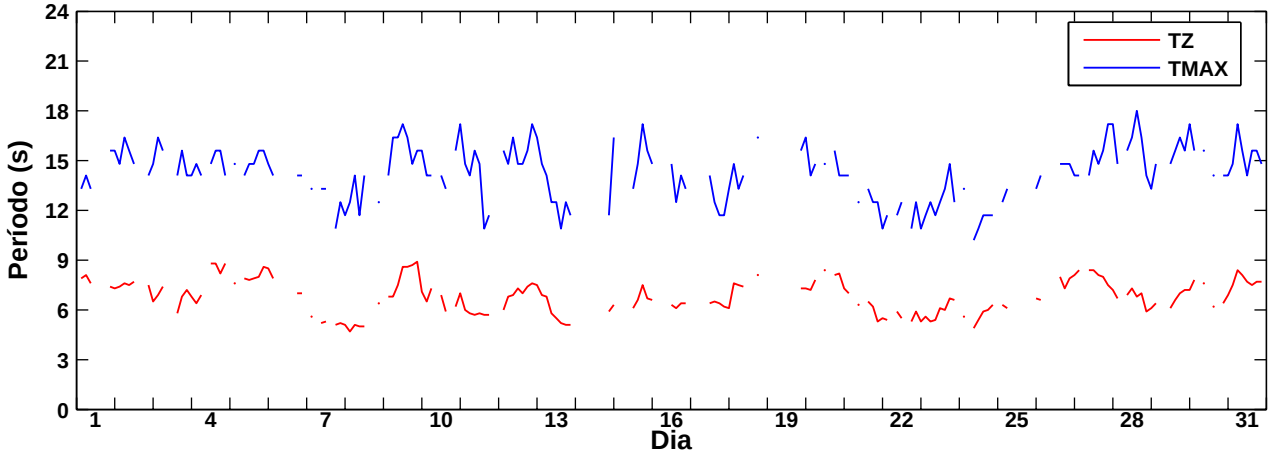
Séries temporais − Janeiro 2006

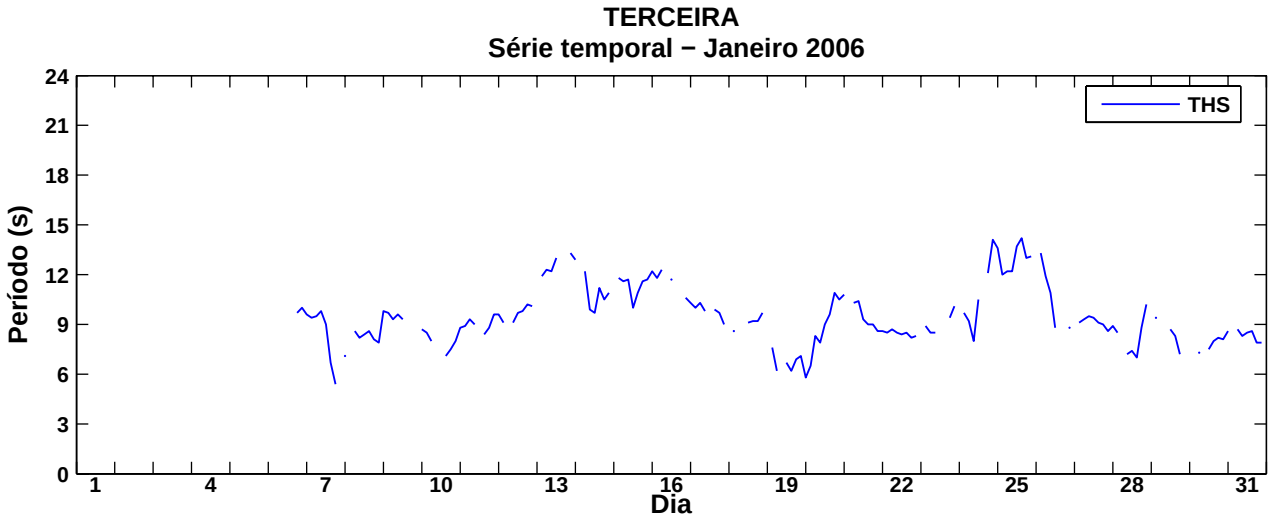


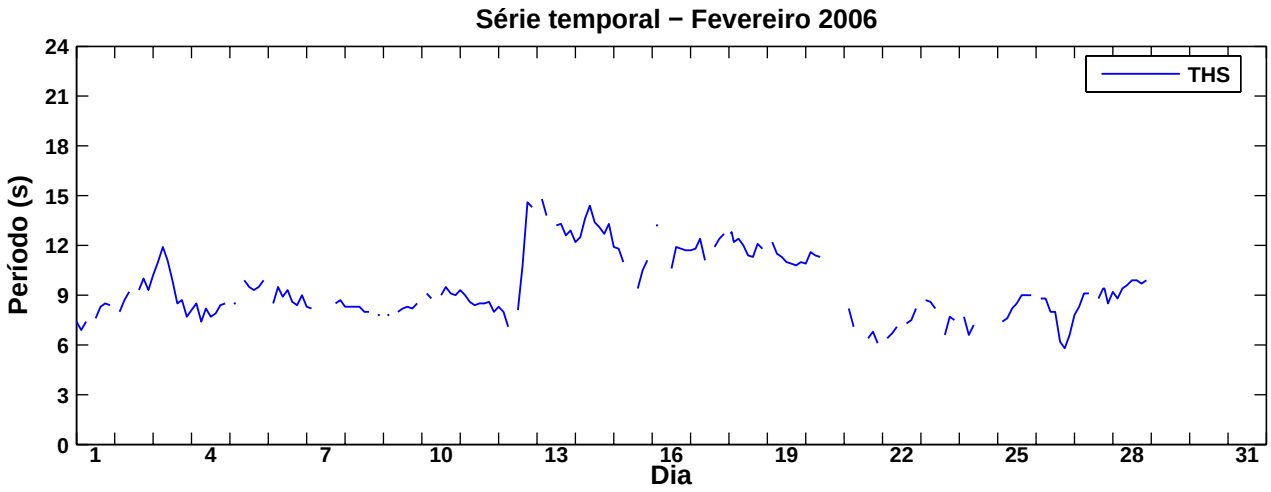
Séries temporais − Fevereiro 2006

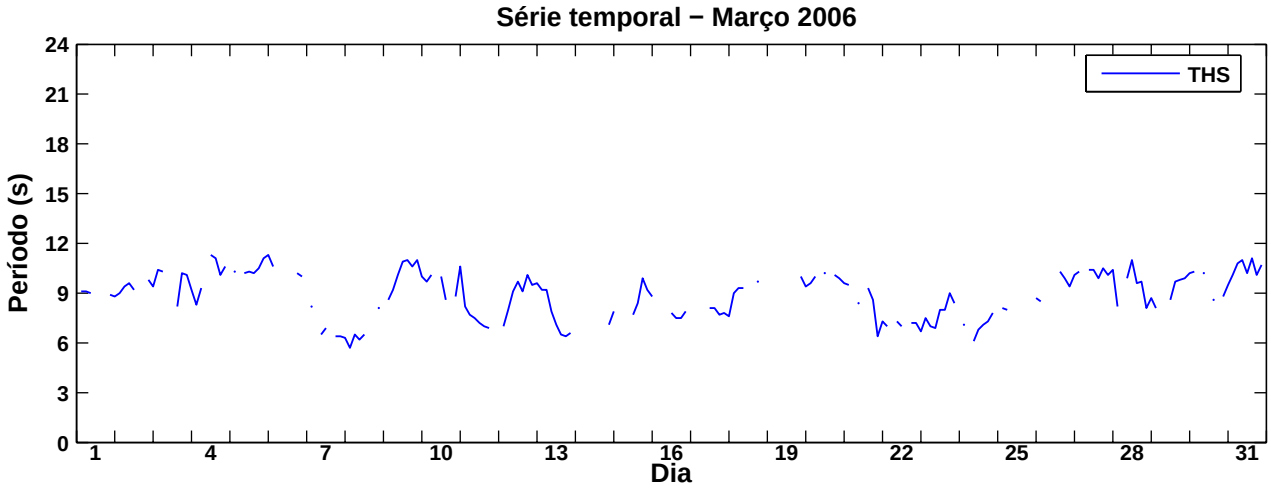


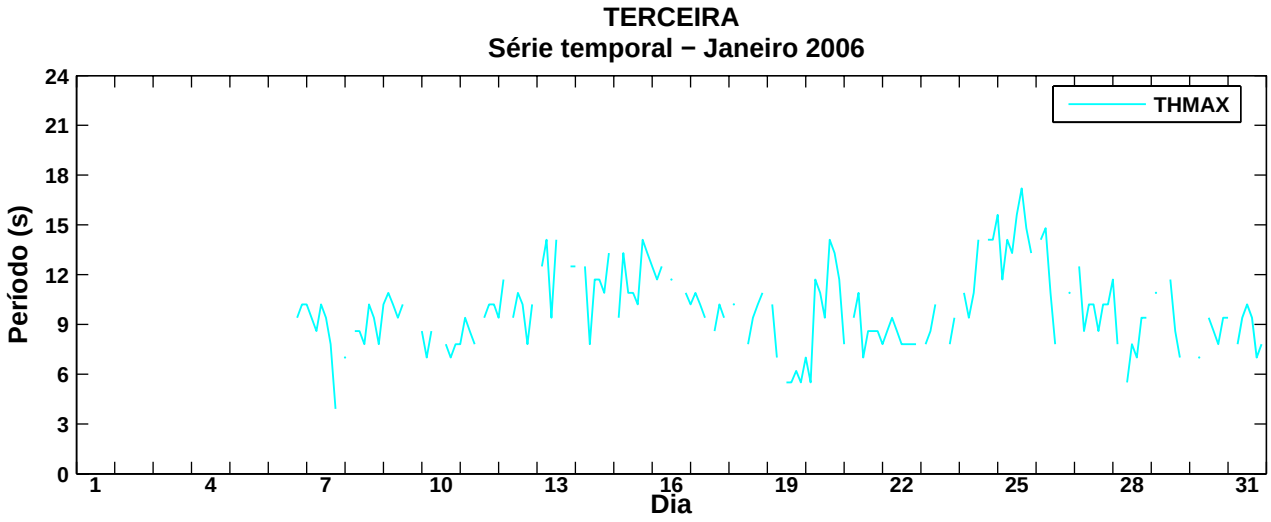
Séries temporais − Março 2006

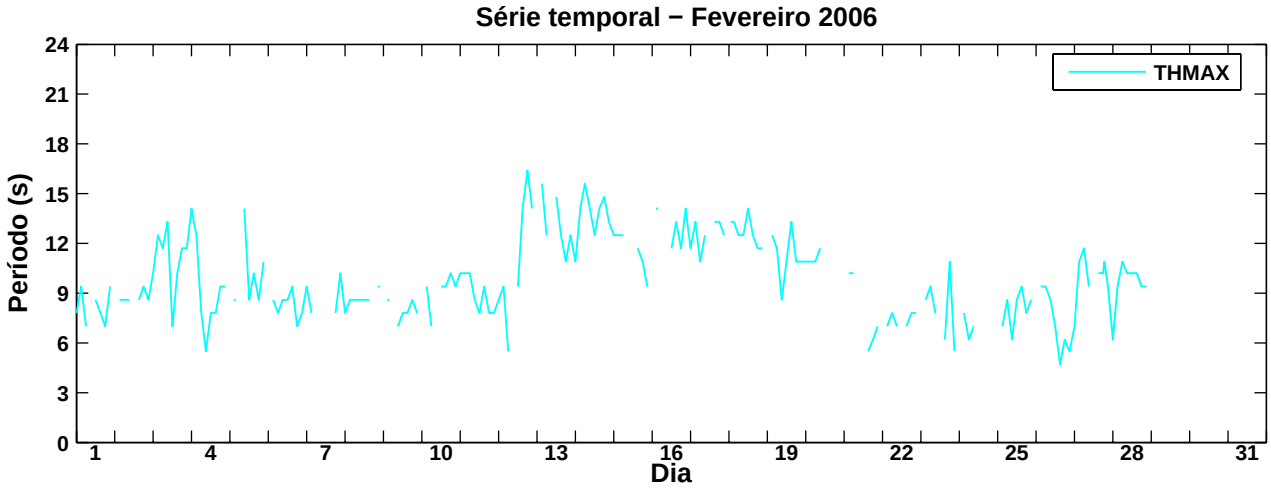


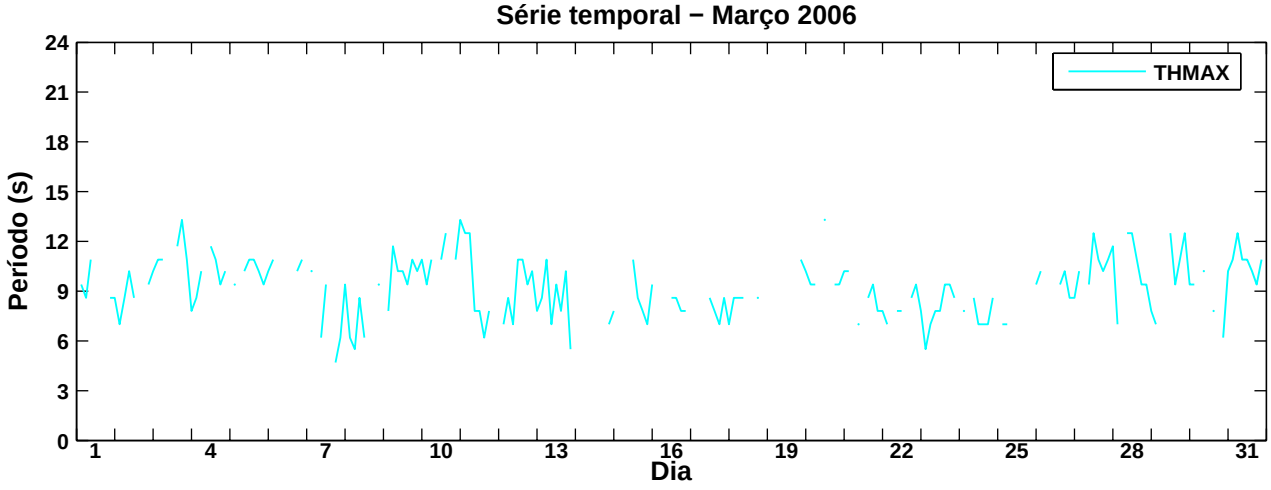

TERCEIRA
Série temporal − Janeiro 2006
THS
Período (s)
Dia
0
3
6
9
12
15
18
21
24
1
4
7
10
13
16
19
22
25
28
31


Série temporal − Fevereiro 2006
THS
Período (s)
Dia
0
3
6
9
12
15
18
21
24
1
4
7
10
13
16
19
22
25
28
31


Série temporal − Março 2006
THS
Período (s)
Dia
0
3
6
9
12
15
18
21
24
1
4
7
10
13
16
19
22
25
28
31


TERCEIRA
Série temporal − Janeiro 2006
THMAX
Período (s)
Dia


Série temporal − Fevereiro 2006
THMAX
Período (s)
Dia


Série temporal − Março 2006
THMAX
Período (s)
Dia

ANEXO C

Tabelas de ocorrências conjuntas HMAX - THMAX, H100 - TH100, H10 - TH10, HS - THS, HS - TZ e HMAX - TMAX

TABELA DE OCORRENCIAS CONJUNTAS TERCEIRA JAN 2006

THMAX / HMAX	< 3	3 4	4 5	5 6	6 7	7 8	8 9	9 10	10 11	11 12	12 13	13 14	14 15	15 16	16 17	17 18	>18	SOMA	%	MED
0.0- 0.5																				
0.5- 1.0																				
1.0- 1.5																				
1.5- 2.0		1		1		6	1	2	3									14	8.8	8.2
2.0- 2.5				3	1	9	4	6	3	2								28	17.5	8.4
2.5- 3.0				1		9	3	7	8	2								30	18.8	9.0
3.0- 3.5						2	5	6	6									19	11.9	9.3
3.5- 4.0						3	1		7	2	1	1	2					17	10.6	10.8
4.0- 4.5							1		3	1	1		3					9	5.6	11.9
4.5- 5.0						2	1	3	5		1	2	2			1		17	10.6	11.2
5.0- 5.5						1	1	1	2	2	1	2	2	1				13	8.1	11.8
5.5- 6.0						1		1	1		2	1	1	1				8	5.0	11.9
6.0- 6.5										1	1		1					3	1.9	12.8
6.5- 7.0									1									1	0.6	10.2
7.0- 7.5						1												1	0.6	7.8
7.5- 8.0																				
8.0- 8.5																				
8.5- 9.0																				
9.0- 9.5																				
9.5-10.0																				
10.0-10.5																				
10.5-11.0																				
11.0-11.5																				
11.5-12.0																				
12.0-12.5																				
12.5-13.0																				
13.0-13.5																				
13.5-14.0																				
14.0-14.5																				
14.5-15.0																				
>15.0																				
SOMA		1		5	1	34	17	26	39	10	7	6	11	2		1		160	100	
%		0.6		3.1	0.6	21.2	10.6	16.2	24.4	6.2	4.4	3.8	6.9	1.2		0.6		100		
MED		1.9		2.2	2.0	2.9	3.2	3.1	3.5	3.9	5.1	4.9	4.8	5.5		4.9				

THMAX

MED 9.9 MIN 3.9 MAX 17.2

DES.PAD 2.3 ASSIM 0.45 CURT 3.13

HMAX

MED 3.49 MIN 1.52 MAX 7.25

DES.PAD 1.31 ASSIM 0.60 CURT 2.37

TABELA DE OCORRENCIAS CONJUNTAS TERCEIRA FEV 2006

THMAX / HMAX	< 3	3 4	4 5	5 6	6 7	7 8	8 9	9 10	10 11	11 12	12 13	13 14	14 15	15 16	16 17	17 18	>18	SOMA	%	MED
0.0- 0.5																				
0.5- 1.0																				
1.0- 1.5																				
1.5- 2.0			1	1		1	1	1					1					6	3.3	8.2
2.0- 2.5					1	10	3	4		1								19	10.4	8.2
2.5- 3.0				3	3	11	4	5	5	2	2		2					37	20.3	8.8
3.0- 3.5				1		4	7	5	6		2	2	2		1			30	16.5	10.1
3.5- 4.0						3	3	5	7	4	2		2					26	14.3	10.4
4.0- 4.5					1	3	3	2	4	1	1	2	1	1				19	10.4	10.4
4.5- 5.0					1	2	4		4			1	1	1				14	7.7	10.1
5.0- 5.5						1	2	3	2	2	4	1	2					17	9.3	11.1
5.5- 6.0									2			1	1					4	2.2	12.3
6.0- 6.5											2	1						3	1.6	12.8
6.5- 7.0										1	1	1						3	1.6	12.5
7.0- 7.5						1				1		1						3	1.6	10.9
7.5- 8.0																				
8.0- 8.5											1							1	0.5	12.5
8.5- 9.0																				
9.0- 9.5																				
9.5-10.0																				
10.0-10.5																				
10.5-11.0																				
11.0-11.5																				
11.5-12.0																				
12.0-12.5																				
12.5-13.0																				
13.0-13.5																				
13.5-14.0																				
14.0-14.5																				
14.5-15.0																				
>15.0																				
SOMA			1	5	6	36	27	25	30	12	15	10	12	2	1			182	100	
%			0.5	2.7	3.3	19.8	14.8	13.7	16.5	6.6	8.2	5.5	6.6	1.1	0.5			100		
MED			1.9	2.6	3.3	3.2	3.5	3.3	3.9	4.2	4.9	5.1	4.0	4.5	3.2					

THMAX

MED 9.9 MIN 4.7 MAX 16.4

DES.PAD 2.4 ASSIM 0.34 CURT 2.42

HMAX

MED 3.73 MIN 1.60 MAX 8.34

DES.PAD 1.25 ASSIM 0.91 CURT 3.65

TABELA DE OCORRENCIAS CONJUNTAS TERCEIRA MAR 2006

THMAX / HMAX	< 3	3 4	4 5	5 6	6 7	7 8	8 9	9 10	10 11	11 12	12 13	13 14	14 15	15 16	16 17	17 18	>18	SOMA	%	MED
0.0- 0.5																				
0.5- 1.0																				
1.0- 1.5																				
1.5- 2.0				1	2	1	1	1										6	3.5	7.3
2.0- 2.5				1	3	3	3	2	11	1	1							25	14.5	9.2
2.5- 3.0			1			6	8	10	18		1	1						45	26.2	9.5
3.0- 3.5				1		18	2	6	15		5	2						49	28.5	9.5
3.5- 4.0						10	4	5	2	2	2							25	14.5	8.9
4.0- 4.5					1	2	4	5	1									13	7.6	8.7
4.5- 5.0							1		2	1								4	2.3	10.2
5.0- 5.5								1	2									3	1.7	10.2
5.5- 6.0							2											2	1.2	8.6
6.0- 6.5																				
6.5- 7.0																				
7.0- 7.5																				
7.5- 8.0																				
8.0- 8.5																				
8.5- 9.0																				
9.0- 9.5																				
9.5-10.0																				
10.0-10.5																				
10.5-11.0																				
11.0-11.5																				
11.5-12.0																				
12.0-12.5																				
12.5-13.0																				
13.0-13.5																				
13.5-14.0																				
14.0-14.5																				
14.5-15.0																				
>15.0																				
SOMA			1	3	6	40	25	30	51	4	9	3						172	100	
%			0.6	1.7	3.5	23.3	14.5	17.4	29.7	2.3	5.2	1.7						100		
MED			2.6	2.5	2.5	3.2	3.4	3.3	3.0	3.7	3.2	3.0								

THMAX

MED 9.3 MIN 4.7 MAX 13.3

DES.PAD 1.8 ASSIM 0.00 CURT 2.58

HMAX

MED 3.18 MIN 1.70 MAX 5.88

DES.PAD 0.75 ASSIM 0.88 CURT 4.24

TABELA DE OCORRENCIAS CONJUNTAS TERCEIRA JAN 2006

TH100 / H100	< 3	3 4	4 5	5 6	6 7	7 8	8 9	9 10	10 11	11 12	12 13	13 14	14 15	15 16	16 17	17 18	>18	SOMA	%	MED
0.0- 0.5																				
0.5- 1.0																				
1.0- 1.5						1	1											2	1.2	8.2
1.5- 2.0				1	1	6	3	5	2									18	11.2	8.3
2.0- 2.5				2	1	4	10	14	4		1							36	22.5	8.8
2.5- 3.0					1	1	9	7	3									21	13.1	9.0
3.0- 3.5						3	3	2	11		1							20	12.5	9.7
3.5- 4.0							2	2	7	1	4				1			17	10.6	11.0
4.0- 4.5								3	1	1	1	1	1	1				9	5.6	11.7
4.5- 5.0						1	3	2	4	2	2		1	1				16	10.0	10.8
5.0- 5.5							1		4	1	1	4	1	1				13	8.1	12.1
5.5- 6.0								1	1		3	1						6	3.8	12.0
6.0- 6.5										1		1						2	1.2	12.5
6.5- 7.0																				
7.0- 7.5																				
7.5- 8.0																				
8.0- 8.5																				
8.5- 9.0																				
9.0- 9.5																				
9.5-10.0																				
10.0-10.5																				
10.5-11.0																				
11.0-11.5																				
11.5-12.0																				
12.0-12.5																				
12.5-13.0																				
13.0-13.5																				
13.5-14.0																				
14.0-14.5																				
14.5-15.0																				
>15.0																				
SOMA				3	3	16	32	36	37	6	13	7	3	3	1			160	100	
%				1.9	1.9	10.0	20.0	22.5	23.1	3.8	8.1	4.4	1.9	1.9	0.6			100		
MED				2.2	2.2	2.4	2.8	2.8	3.6	4.8	4.4	5.3	4.7	4.7	3.8					

TH100

MED 9.9 MIN 5.3 MAX 16.0

DES.PAD 2.0 ASSIM 0.64 CURT 3.47

H100

MED 3.33 MIN 1.45 MAX 6.12

DES.PAD 1.23 ASSIM 0.51 CURT 2.07

TABELA DE OCORRENCIAS CONJUNTAS TERCEIRA FEV 2006

TH100 / H100	< 3	3 4	4 5	5 6	6 7	7 8	8 9	9 10	10 11	11 12	12 13	13 14	14 15	15 16	16 17	17 18	>18	SOMA	%	MED
0.0- 0.5																				
0.5- 1.0																				
1.0- 1.5						1												1	0.5	7.3
1.5- 2.0					1	3	3					1						8	4.4	8.4
2.0- 2.5					3	7	9	1	2	1								23	12.6	8.3
2.5- 3.0				2	3	2	13	8	1	5	2	1						37	20.3	9.1
3.0- 3.5					1	1	10	9	5	2	3	1			1			33	18.1	10.0
3.5- 4.0					1	3	4	4	5	4	1	1	2					25	13.7	10.1
4.0- 4.5						1	5	5		1	5	1		1				19	10.4	10.5
4.5- 5.0							6		1		2	2		1				12	6.6	10.6
5.0- 5.5							1	3	1	2	3	1	1	1				13	7.1	11.6
5.5- 6.0							1			2	2							5	2.7	11.2
6.0- 6.5											1							1	0.5	12.1
6.5- 7.0										2	1							3	1.6	12.0
7.0- 7.5										1		1						2	1.1	12.5
7.5- 8.0																				
8.0- 8.5																				
8.5- 9.0																				
9.0- 9.5																				
9.5-10.0																				
10.0-10.5																				
10.5-11.0																				
11.0-11.5																				
11.5-12.0																				
12.0-12.5																				
12.5-13.0																				
13.0-13.5																				
13.5-14.0																				
14.0-14.5																				
14.5-15.0																				
>15.0																				
SOMA				2	9	18	52	30	15	20	20	9	3	3	1			182	100	
%				1.1	4.9	9.9	28.6	16.5	8.2	11.0	11.0	4.9	1.6	1.6	0.5			100		
MED				2.7	2.6	2.6	3.3	3.5	3.5	4.2	4.6	4.3	4.1	4.8	3.1					

TH100

MED 9.8 MIN 5.7 MAX 16.4

DES.PAD 2.2 ASSIM 0.55 CURT 2.69

H100

MED 3.55 MIN 1.49 MAX 7.28

DES.PAD 1.18 ASSIM 0.82 CURT 3.24

TH100 / H100	< 3	3 4	4 5	5 6	6 7	7 8	8 9	9 10	10 11	11 12	12 13	13 14	14 15	15 16	16 17	17 18	>18	SOMA	%	MED
0.0- 0.5																				
0.5- 1.0																				
1.0- 1.5																				
1.5- 2.0				2	3	1	1		2			1						10	5.8	8.0
2.0- 2.5					1	6	4	6	7	4								28	16.3	9.3
2.5- 3.0						13	4	13	19	3	1	1						54	31.4	9.5
3.0- 3.5					3	8	8	9	14	3	4							49	28.5	9.4
3.5- 4.0					1	4	5	3	2	1								16	9.3	8.6
4.0- 4.5						1		5	1	1								8	4.7	9.5
4.5- 5.0							1		2	1								4	2.3	10.1
5.0- 5.5								1	1	1								3	1.7	10.4
5.5- 6.0																				
6.0- 6.5																				
6.5- 7.0																				
7.0- 7.5																				
7.5- 8.0																				
8.0- 8.5																				
8.5- 9.0																				
9.0- 9.5																				
9.5-10.0																				
10.0-10.5																				
10.5-11.0																				
11.0-11.5																				
11.5-12.0																				
12.0-12.5																				
12.5-13.0																				
13.0-13.5																				
13.5-14.0																				
14.0-14.5																				
14.5-15.0																				
>15.0																				
SOMA				2	8	33	23	37	48	14	5	2						172	100	
%				1.2	4.7	19.2	13.4	21.5	27.9	8.1	2.9	1.2						100		
MED				1.7	2.6	2.9	3.0	3.1	3.0	3.1	3.2	2.4								

TH100

MED 9.3 MIN 5.7 MAX 13.0

DES.PAD 1.6 ASSIM -0.12 CURT 2.32

H100

MED 3.00 MIN 1.59 MAX 5.19

DES.PAD 0.68 ASSIM 0.65 CURT 3.70

TABELA DE OCORRENCIAS CONJUNTAS TERCEIRA JAN 2006

TH10 / H10	< 3	3 4	4 5	5 6	6 7	7 8	8 9	9 10	10 11	11 12	12 13	13 14	14 15	15 16	16 17	17 18	>18	SOMA	%	MED
0.0- 0.5																				
0.5- 1.0																				
1.0- 1.5				1		6	2	5	2									16	10.0	8.6
1.5- 2.0					4	3	16	8	5									36	22.5	8.6
2.0- 2.5						3	17	11	5									36	22.5	9.0
2.5- 3.0							1	6	8	1	2	1						19	11.9	10.4
3.0- 3.5								3	4	2	3	1	2					15	9.4	11.5
3.5- 4.0							4	2	2	2	8	2	1					21	13.1	11.3
4.0- 4.5							1	2		2	4	1	1	2				13	8.1	12.3
4.5- 5.0									1		2	1						4	2.5	12.1
5.0- 5.5																				
5.5- 6.0																				
6.0- 6.5																				
6.5- 7.0																				
7.0- 7.5																				
7.5- 8.0																				
8.0- 8.5																				
8.5- 9.0																				
9.0- 9.5																				
9.5-10.0																				
10.0-10.5																				
10.5-11.0																				
11.0-11.5																				
11.5-12.0																				
12.0-12.5																				
12.5-13.0																				
13.0-13.5																				
13.5-14.0																				
14.0-14.5																				
14.5-15.0																				
>15.0																				
SOMA				1	4	12	41	37	27	7	19	6	4	2				160	100	
%				0.6	2.5	7.5	25.6	23.1	16.9	4.4	11.9	3.8	2.5	1.2				100		
MED				1.4	1.6	1.7	2.2	2.4	2.6	3.5	3.8	3.7	3.6	4.1						

TH10

MED 9.9 MIN 5.8 MAX 15.2

DES.PAD 1.9 ASSIM 0.64 CURT 3.05

H10

MED 2.61 MIN 1.19 MAX 4.90

DES.PAD 0.95 ASSIM 0.49 CURT 2.08

TH10 / H10	< 3	3 4	4 5	5 6	6 7	7 8	8 9	9 10	10 11	11 12	12 13	13 14	14 15	15 16	16 17	17 18	>18	SOMA	%	MED
0.0- 0.5																				
0.5- 1.0																				
1.0- 1.5					1	1	3											5	2.7	7.9
1.5- 2.0				1	3	11	10	3	2		1							31	17.0	8.2
2.0- 2.5					2	5	17	13	5	3								45	24.7	8.9
2.5- 3.0					1	1	4	10	3	7	3	2		1				32	17.6	10.5
3.0- 3.5						4	6	6	1	3	2	3	2					27	14.8	10.3
3.5- 4.0						2	4	2	2	3	3		2	1				19	10.4	10.8
4.0- 4.5							1	1	1	3	4	1	1					12	6.6	11.7
4.5- 5.0							2				3	1						6	3.3	11.2
5.0- 5.5										2	2							4	2.2	12.1
5.5- 6.0											1							1	0.5	12.9
6.0- 6.5																				
6.5- 7.0																				
7.0- 7.5																				
7.5- 8.0																				
8.0- 8.5																				
8.5- 9.0																				
9.0- 9.5																				
9.5-10.0																				
10.0-10.5																				
10.5-11.0																				
11.0-11.5																				
11.5-12.0																				
12.0-12.5																				
12.5-13.0																				
13.0-13.5																				
13.5-14.0																				
14.0-14.5																				
14.5-15.0																				
>15.0																				
SOMA				1	7	24	47	35	14	21	19	7	5	2				182	100	
%				0.5	3.8	13.2	25.8	19.2	7.7	11.5	10.4	3.8	2.7	1.1				100		
MED				1.8	2.0	2.3	2.5	2.7	2.7	3.4	3.9	3.5	3.6	3.2						

TH10

MED 9.8 MIN 5.7 MAX 15.4

DES.PAD 2.0 ASSIM 0.60 CURT 2.60

H10

MED 2.82 MIN 1.12 MAX 5.50

DES.PAD 0.93 ASSIM 0.73 CURT 2.94

TABELA DE OCORRENCIAS CONJUNTAS TERCEIRA MAR 2006

TH10 / H10	< 3	3 4	4 5	5 6	6 7	7 8	8 9	9 10	10 11	11 12	12 13	13 14	14 15	15 16	16 17	17 18	>18	SOMA	%	MED
0.0- 0.5																				
0.5- 1.0																				
1.0- 1.5					3	2	2		1									8	4.7	7.6
1.5- 2.0					5	3	2	10	15	2								37	21.5	9.4
2.0- 2.5					3	14	7	11	25	4	1							65	37.8	9.3
2.5- 3.0					1	9	9	7	12	4								42	24.4	9.3
3.0- 3.5						2	2	4	8									16	9.3	9.5
3.5- 4.0									2	2								4	2.3	10.9
4.0- 4.5																				
4.5- 5.0																				
5.0- 5.5																				
5.5- 6.0																				
6.0- 6.5																				
6.5- 7.0																				
7.0- 7.5																				
7.5- 8.0																				
8.0- 8.5																				
8.5- 9.0																				
9.0- 9.5																				
9.5-10.0																				
10.0-10.5																				
10.5-11.0																				
11.0-11.5																				
11.5-12.0																				
12.0-12.5																				
12.5-13.0																				
13.0-13.5																				
13.5-14.0																				
14.0-14.5																				
14.5-15.0																				
>15.0																				
SOMA					12	30	22	32	63	12	1							172	100	
%					7.0	17.4	12.8	18.6	36.6	7.0	0.6							100		
MED					1.9	2.4	2.4	2.3	2.4	2.5	2.2									

TH10

MED 9.3 MIN 6.2 MAX 12.6

DES.PAD 1.4 ASSIM -0.32 CURT 2.02

H10

MED 2.35 MIN 1.22 MAX 3.94

DES.PAD 0.51 ASSIM 0.40 CURT 3.25

TABELA DE OCORRENCIAS CONJUNTAS TERCEIRA JAN 2006

THS / HS	< 3	3 4	4 5	5 6	6 7	7 8	8 9	9 10	10 11	11 12	12 13	13 14	14 15	15 16	16 17	17 18	>18	SOMA	%	MED
0.0- 0.5																				
0.5- 1.0								2										2	1.2	9.4
1.0- 1.5				2	6	9	9	12										38	23.8	8.0
1.5- 2.0						4	26	14	3									47	29.4	8.8
2.0- 2.5						1	2	9	7	2	1	2						24	15.0	10.1
2.5- 3.0						1	3	4	7	2	3	2						22	13.8	10.5
3.0- 3.5							4	2	3	5	3	1	2					20	12.5	11.1
3.5- 4.0								1		1	3	2						7	4.4	12.1
4.0- 4.5																				
4.5- 5.0																				
5.0- 5.5																				
5.5- 6.0																				
6.0- 6.5																				
6.5- 7.0																				
7.0- 7.5																				
7.5- 8.0																				
8.0- 8.5																				
8.5- 9.0																				
9.0- 9.5																				
9.5-10.0																				
10.0-10.5																				
10.5-11.0																				
11.0-11.5																				
11.5-12.0																				
12.0-12.5																				
12.5-13.0																				
13.0-13.5																				
13.5-14.0																				
14.0-14.5																				
14.5-15.0																				
>15.0																				
SOMA				2	6	15	44	44	20	10	10	7	2					160	100	
%				1.2	3.8	9.4	27.5	27.5	12.5	6.2	6.2	4.4	1.2					100		
MED				1.2	1.3	1.5	1.9	1.9	2.5	3.0	3.1	3.0	3.2							

THS

MED 9.5 MIN 5.4 MAX 14.2

DES.PAD 1.8 ASSIM 0.54 CURT 3.06

HS

MED 2.09 MIN 0.94 MAX 3.78

DES.PAD 0.76 ASSIM 0.50 CURT 2.08

THS / HS	< 3	3 4	4 5	5 6	6 7	7 8	8 9	9 10	10 11	11 12	12 13	13 14	14 15	15 16	16 17	17 18	>18	SOMA	%	MED
0.0- 0.5																				
0.5- 1.0							1											1	0.5	8.0
1.0- 1.5				1	3	8	7	1	1									21	11.5	7.7
1.5- 2.0					6	9	26	12	3	2		1						59	32.4	8.5
2.0- 2.5					1		7	14	2	8	1	2	1					36	19.8	10.1
2.5- 3.0						4	9	4	2	6	3	3	2					33	18.1	10.4
3.0- 3.5							5	3		6	4	2	1					21	11.5	10.9
3.5- 4.0							2			1	2							5	2.7	10.7
4.0- 4.5										1	5							6	3.3	12.3
4.5- 5.0																				
5.0- 5.5																				
5.5- 6.0																				
6.0- 6.5																				
6.5- 7.0																				
7.0- 7.5																				
7.5- 8.0																				
8.0- 8.5																				
8.5- 9.0																				
9.0- 9.5																				
9.5-10.0																				
10.0-10.5																				
10.5-11.0																				
11.0-11.5																				
11.5-12.0																				
12.0-12.5																				
12.5-13.0																				
13.0-13.5																				
13.5-14.0																				
14.0-14.5																				
14.5-15.0																				
>15.0																				
SOMA				1	10	21	57	34	8	24	15	8	4					182	100	
%				0.5	5.5	11.5	31.3	18.7	4.4	13.2	8.2	4.4	2.2					100		
MED				1.5	1.6	1.7	2.0	2.2	2.1	2.7	3.5	2.7	2.7							

THS

MED 9.5 MIN 5.8 MAX 14.8

DES.PAD 2.0 ASSIM 0.62 CURT 2.52

HS

MED 2.25 MIN 0.92 MAX 4.34

DES.PAD 0.73 ASSIM 0.72 CURT 2.93

TABELA DE OCORRENCIAS CONJUNTAS TERCEIRA MAR 2006

THS / HS	< 3	3 4	4 5	5 6	6 7	7 8	8 9	9 10	10 11	11 12	12 13	13 14	14 15	15 16	16 17	17 18	>18	SOMA	%	MED
0.0- 0.5																				
0.5- 1.0																				
1.0- 1.5				1	10		7	5	5									28	16.3	8.1
1.5- 2.0					7	16	12	23	22	5								85	49.4	9.0
2.0- 2.5						12	10	9	11	2								44	25.6	9.0
2.5- 3.0						1	2	6	4	1								14	8.1	9.5
3.0- 3.5										1								1	0.6	11.3
3.5- 4.0																				
4.0- 4.5																				
4.5- 5.0																				
5.0- 5.5																				
5.5- 6.0																				
6.0- 6.5																				
6.5- 7.0																				
7.0- 7.5																				
7.5- 8.0																				
8.0- 8.5																				
8.5- 9.0																				
9.0- 9.5																				
9.5-10.0																				
10.0-10.5																				
10.5-11.0																				
11.0-11.5																				
11.5-12.0																				
12.0-12.5																				
12.5-13.0																				
13.0-13.5																				
13.5-14.0																				
14.0-14.5																				
14.5-15.0																				
>15.0																				
SOMA				1	17	29	31	43	42	9								172	100	
%				0.6	9.9	16.9	18.0	25.0	24.4	5.2								100		
MED				1.2	1.5	2.0	1.8	1.9	1.9	2.1										

THS

MED 8.9 MIN 5.7 MAX 11.3

DES.PAD 1.4 ASSIM -0.32 CURT 2.00

HS

MED 1.87 MIN 1.00 MAX 3.17

DES.PAD 0.40 ASSIM 0.37 CURT 3.10

TABELA DE OCORRENCIAS CONJUNTAS TERCEIRA JAN 2006

TZ / HS	< 3	3 4	4 5	5 6	6 7	7 8	8 9	9 10	10 11	11 12	12 13	13 14	14 15	15 16	16 17	17 18	>18	SOMA	%	MED
0.0- 0.5																				
0.5- 1.0					1	1												2	1.2	6.7
1.0- 1.5			5	10	13	9	1											38	23.8	6.2
1.5- 2.0				5	18	21	3											47	29.4	6.9
2.0- 2.5				1	3	15	4	1										24	15.0	7.5
2.5- 3.0					4	9	7	2										22	13.8	7.8
3.0- 3.5					3	5	7	3	2									20	12.5	8.3
3.5- 4.0						1	1	3	2									7	4.4	9.3
4.0- 4.5																				
4.5- 5.0																				
5.0- 5.5																				
5.5- 6.0																				
6.0- 6.5																				
6.5- 7.0																				
7.0- 7.5																				
7.5- 8.0																				
8.0- 8.5																				
8.5- 9.0																				
9.0- 9.5																				
9.5-10.0																				
10.0-10.5																				
10.5-11.0																				
11.0-11.5																				
11.5-12.0																				
12.0-12.5																				
12.5-13.0																				
13.0-13.5																				
13.5-14.0																				
14.0-14.5																				
14.5-15.0																				
>15.0																				
SOMA			5	16	42	61	23	9	4									160	100	
%			3.1	10.0	26.2	38.1	14.4	5.6	2.5									100		
MED			1.2	1.4	1.8	2.1	2.6	3.2	3.5											

TZ

MED 7.2 MIN 4.3 MAX 10.2

DES.PAD 1.2 ASSIM 0.28 CURT 3.26

HS

MED 2.09 MIN 0.94 MAX 3.78

DES.PAD 0.76 ASSIM 0.50 CURT 2.08

TABELA DE OCORRENCIAS CONJUNTAS TERCEIRA FEV 2006

TZ / HS	< 3	3 4	4 5	5 6	6 7	7 8	8 9	9 10	10 11	11 12	12 13	13 14	14 15	15 16	16 17	17 18	>18	SOMA	%	MED
0.0- 0.5																				
0.5- 1.0				1														1	0.5	5.6
1.0- 1.5			1	12	6	2												21	11.5	5.8
1.5- 2.0				18	22	15	3	1										59	32.4	6.6
2.0- 2.5				1	8	12	7	6	2									36	19.8	7.9
2.5- 3.0					13	3	4	9	4									33	18.1	8.2
3.0- 3.5					4	4	4	6	3									21	11.5	8.5
3.5- 4.0					1	1		2	1									5	2.7	8.5
4.0- 4.5								4	2									6	3.3	9.8
4.5- 5.0																				
5.0- 5.5																				
5.5- 6.0																				
6.0- 6.5																				
6.5- 7.0																				
7.0- 7.5																				
7.5- 8.0																				
8.0- 8.5																				
8.5- 9.0																				
9.0- 9.5																				
9.5-10.0																				
10.0-10.5																				
10.5-11.0																				
11.0-11.5																				
11.5-12.0																				
12.0-12.5																				
12.5-13.0																				
13.0-13.5																				
13.5-14.0																				
14.0-14.5																				
14.5-15.0																				
>15.0																				
SOMA			1	32	54	37	18	28	12									182	100	
%			0.5	17.6	29.7	20.3	9.9	15.4	6.6									100		
MED			1.1	1.5	2.1	2.2	2.5	3.0	3.1											

TZ

MED 7.4 MIN 4.9 MAX 10.9

DES.PAD 1.5 ASSIM 0.49 CURT 2.16

HS

MED 2.25 MIN 0.92 MAX 4.34

DES.PAD 0.73 ASSIM 0.72 CURT 2.93

TABELA DE OCORRENCIAS CONJUNTAS TERCEIRA MAR 2006

TZ / HS	< 3	3 4	4 5	5 6	6 7	7 8	8 9	9 10	10 11	11 12	12 13	13 14	14 15	15 16	16 17	17 18	>18	SOMA	%	MED
0.0- 0.5																				
0.5- 1.0																				
1.0- 1.5			1	12	7	7	1											28	16.3	6.2
1.5- 2.0			1	21	23	32	8											85	49.4	6.8
2.0- 2.5				4	22	7	11											44	25.6	7.0
2.5- 3.0					3	7	4											14	8.1	7.5
3.0- 3.5							1											1	0.6	8.8
3.5- 4.0																				
4.0- 4.5																				
4.5- 5.0																				
5.0- 5.5																				
5.5- 6.0																				
6.0- 6.5																				
6.5- 7.0																				
7.0- 7.5																				
7.5- 8.0																				
8.0- 8.5																				
8.5- 9.0																				
9.0- 9.5																				
9.5-10.0																				
10.0-10.5																				
10.5-11.0																				
11.0-11.5																				
11.5-12.0																				
12.0-12.5																				
12.5-13.0																				
13.0-13.5																				
13.5-14.0																				
14.0-14.5																				
14.5-15.0																				
>15.0																				
SOMA			2	37	55	53	25											172	100	
%			1.2	21.5	32.0	30.8	14.5											100		
MED			1.5	1.7	1.9	1.9	2.2													

TZ

MED 6.8 MIN 4.7 MAX 8.9

DES.PAD 1.0 ASSIM 0.00 CURT 2.13

HS

MED 1.87 MIN 1.00 MAX 3.17

DES.PAD 0.40 ASSIM 0.37 CURT 3.10

TABELA DE OCORRENCIAS CONJUNTAS TERCEIRA JAN 2006

TMAX / HMAX	< 3	3 4	4 5	5 6	6 7	7 8	8 9	9 10	10 11	11 12	12 13	13 14	14 15	15 16	16 17	17 18	>18	SOMA	%	MED
0.0- 0.5																				
0.5- 1.0																				
1.0- 1.5																				
1.5- 2.0										3	3	3	4	1				14	8.8	13.2
2.0- 2.5										2	4	9	11	1	1			28	17.5	13.7
2.5- 3.0											3	7	15	3	2			30	18.8	14.2
3.0- 3.5												1	16	1	1			19	11.9	14.7
3.5- 4.0												2	2	5	5	1	2	17	10.6	15.9
4.0- 4.5													2	1	3		3	9	5.6	16.7
4.5- 5.0											1	1	3	2	3	1	6	17	10.6	16.6
5.0- 5.5													2		2	1	8	13	8.1	18.0
5.5- 6.0													2		1		5	8	5.0	17.3
6.0- 6.5																	3	3	1.9	18.5
6.5- 7.0												1						1	0.6	13.3
7.0- 7.5														1				1	0.6	15.6
7.5- 8.0																				
8.0- 8.5																				
8.5- 9.0																				
9.0- 9.5																				
9.5-10.0																				
10.0-10.5																				
10.5-11.0																				
11.0-11.5																				
11.5-12.0																				
12.0-12.5																				
12.5-13.0																				
13.0-13.5																				
13.5-14.0																				
14.0-14.5																				
14.5-15.0																				
>15.0																				
SOMA										5	11	24	57	15	18	3	27	160	100	
%										3.1	6.9	15.0	35.6	9.4	11.2	1.9	16.9	100		
MED										2.0	2.4	2.8	3.1	3.7	4.0	4.4	5.2			

TMAX

MED 15.2 MIN 11.7 MAX 21.9

DES.PAD 2.2 ASSIM 0.86 CURT 3.33

HMAX

MED 3.49 MIN 1.52 MAX 7.25

DES.PAD 1.31 ASSIM 0.60 CURT 2.37

TABELA DE OCORRENCIAS CONJUNTAS TERCEIRA FEV 2006

TMAX / HMAX	< 3	3 4	4 5	5 6	6 7	7 8	8 9	9 10	10 11	11 12	12 13	13 14	14 15	15 16	16 17	17 18	>18	SOMA	%	MED
0.0- 0.5																				
0.5- 1.0																				
1.0- 1.5																				
1.5- 2.0											3	1		1			1	6	3.3	14.1
2.0- 2.5									1	5	5	3	4	1				19	10.4	12.9
2.5- 3.0									2	4	9	5	9	2	2	2	2	37	20.3	13.8
3.0- 3.5											7	5	6	4	1	3	4	30	16.5	14.8
3.5- 4.0										1	3	4	7	2	2	2	5	26	14.3	15.3
4.0- 4.5										3	1	4	1	2	3	1	4	19	10.4	15.1
4.5- 5.0									1	2	2		3	2	1	1	2	14	7.7	14.6
5.0- 5.5									1		3		3	1	2	2	5	17	9.3	15.7
5.5- 6.0											1				1		2	4	2.2	16.6
6.0- 6.5														1		1	1	3	1.6	17.2
6.5- 7.0															2		1	3	1.6	17.2
7.0- 7.5											1					1	1	3	1.6	15.9
7.5- 8.0																				
8.0- 8.5																1		1	0.5	17.2
8.5- 9.0																				
9.0- 9.5																				
9.5-10.0																				
10.0-10.5																				
10.5-11.0																				
11.0-11.5																				
11.5-12.0																				
12.0-12.5																				
12.5-13.0																				
13.0-13.5																				
13.5-14.0																				
14.0-14.5																				
14.5-15.0																				
>15.0																				
SOMA									5	15	35	22	33	16	14	14	28	182	100	
%									2.7	8.2	19.2	12.1	18.1	8.8	7.7	7.7	15.4	100		
MED									3.6	3.2	3.3	3.2	3.4	3.7	4.6	4.6	4.5			

TMAX

MED 14.7 MIN 10.9 MAX 21.9

DES.PAD 2.4 ASSIM 0.54 CURT 2.43

HMAX

MED 3.73 MIN 1.60 MAX 8.34

DES.PAD 1.25 ASSIM 0.91 CURT 3.65

TABELA DE OCORRENCIAS CONJUNTAS TERCEIRA MAR 2006

TMAX / HMAX	< 3	3 4	4 5	5 6	6 7	7 8	8 9	9 10	10 11	11 12	12 13	13 14	14 15	15 16	16 17	17 18	>18	SOMA	%	MED
0.0- 0.5																				
0.5- 1.0																				
1.0- 1.5																				
1.5- 2.0										1	2		3					6	3.5	13.2
2.0- 2.5										2	4	4	8	4	3			25	14.5	14.2
2.5- 3.0									5	1	3	3	20	8	4	1		45	26.2	14.2
3.0- 3.5									1	4	5	6	16	9	3	4	1	49	28.5	14.5
3.5- 4.0									1	5	1	1	9	4	1	3		25	14.5	14.2
4.0- 4.5									1	1	1	2	5	2	1			13	7.6	14.0
4.5- 5.0													4					4	2.3	14.5
5.0- 5.5													1	1	1			3	1.7	15.6
5.5- 6.0											1		1					2	1.2	13.3
6.0- 6.5																				
6.5- 7.0																				
7.0- 7.5																				
7.5- 8.0																				
8.0- 8.5																				
8.5- 9.0																				
9.0- 9.5																				
9.5-10.0																				
10.0-10.5																				
10.5-11.0																				
11.0-11.5																				
11.5-12.0																				
12.0-12.5																				
12.5-13.0																				
13.0-13.5																				
13.5-14.0																				
14.0-14.5																				
14.5-15.0																				
>15.0																				
SOMA									8	14	17	16	67	28	13	8	1	172	100	
%									4.7	8.1	9.9	9.3	39.0	16.3	7.6	4.7	0.6	100		
MED									3.1	3.2	3.0	3.1	3.2	3.2	3.1	3.3	3.4			

TMAX

MED 14.2 MIN 10.2 MAX 18.0

DES.PAD 1.6 ASSIM -0.24 CURT 2.50

HMAX

MED 3.18 MIN 1.70 MAX 5.88

DES.PAD 0.75 ASSIM 0.88 CURT 4.24

ANEXO D

Listagem dos parâmetros espectrais HM0, T02, TP, SMAX e direccionais THTP1, SPRTP1, THHF1, THLF1 e N

Código de símbolos:

HM0	(m)	-	Altura significativa, $Hm0 = 4\sqrt{M0}$;
T02	(s)	-	Período médio, $T02 = \sqrt{\frac{M0}{M2}}$;
M0	(m^2)	-	Momento espectral de ordem zero;
M2	($m^2.s^{-2}$)	-	Momento espectral de ordem dois;
NG		-	Número de grupos utilizados no cálculo dos espectros;
THHF1	(°)	-	Direcção média relativa às altas frequências (períodos menores que 8 segundos);
THLF1	(°)	-	Direcção média relativa às baixas frequências (períodos maiores que 8 segundos);

Utilizando estimadores dos espectros cruzados em 20 bandas de frequência, são determinados os seguintes parâmetros:

TP	(s)	-	Período de pico;
SMAX	($m^2.s$)	-	Máxima ordenada espectral;
THTP1	(°)	-	Direcção média do período de pico;
SPRTP1	(°)	-	Dispersão no período de pico;
N		-	Expoente da distribuição cosseno no período de pico;

As estimativas das ordenadas dos espectros são calculadas pelo método directo de estimação do espectro, aplicando o algoritmo "FAST FOURIER TRANSFORM" aos dados agrupados em blocos de 200 segundos, e efectuando a média sobre todos os blocos considerados válidos. É aplicada a janela cosseno aos primeiros e últimos 64 pontos de cada bloco.

Intervalo de tempo entre valores..... 0.78 s

Número de ordenadas do espectro 127

Resolução em frequência do espectro..... 0.005 Hz

Frequência de corte do espectro..... 0.635 Hz

Número de graus de liberdade ..... 2 * NG

NOTA: Todas as direcções apresentadas estão referidas ao Norte verdadeiro.

DIA	HORA	NG	HM0 (m)	T02 (s)	TP (s)	SMAX (m2.s)	THTP1 (graus)	SPRTP1 (graus)	THHF1 (graus)	THLF1 (graus)	N
06	18-00	9	1.79	7.8	11.1	4.700	342	21	33	353	10.3
06	21-00	9	1.73	8.1	11.1	6.137	346	21	49	357	9.6
07	00-00	9	1.46	7.3	11.1	3.818	351	19	74	4	13.6
07	03-00	9	1.27	6.8	11.1	2.056	350	24	57	360	10.2
07	06-00	9	1.25	6.5	11.1	2.181	350	22	106	1	9.2
07	09-00	9	.98	6.5	11.1	1.440	347	31	171	14	9.2
07	12-00	9	1.05	5.5	11.8	1.302	353	29	185	17	7.9
07	15-00	9	1.14	4.5	11.1	1.043	354	40	300	14	3.3
07	18-00	9	1.31	4.2	11.8	.660	5	45	327	15	1.9
08	00-00	9	2.24	5.3	6.2	3.136	342	26	349	2	5.1
08	06-00	9	3.33	6.4	8.0	9.002	344	24	355	345	4.9
08	09-00	9	3.09	6.3	8.0	6.716	340	25	357	341	5.7
08	12-00	9	3.05	6.3	10.5	6.737	1	40	2	348	1.5
08	15-00	9	3.24	6.5	11.1	9.869	345	29	4	353	8.2
08	18-00	9	3.30	6.3	9.1	8.172	354	31	3	355	2.3
08	21-00	9	3.18	6.2	9.1	8.177	6	32	10	355	2.6
09	00-00	9	4.05	7.4	11.8	25.106	353	26	20	3	9.1
09	03-00	9	3.78	7.2	11.8	16.571	354	20	26	5	9.8
09	06-00	9	3.28	6.9	10.0	12.185	6	30	29	4	2.5
09	09-00	9	3.15	7.2	11.8	9.308	352	23	25	4	6.9
09	12-00	9	2.78	7.0	10.0	8.043	9	36	38	9	1.7
10	00-00	9	1.90	6.8	10.0	3.460	9	28	56	15	4.7
10	03-00	9	1.70	6.7	10.0	3.800	11	20	60	25	10.1
10	06-00	9	1.48	6.5	9.1	1.845	12	30	62	20	5.6
10	15-00	9	1.10	5.6	8.0	1.031	87	50	105	36	1.3
10	18-00	9	1.12	5.9	7.0	1.034	93	40	348	24	2.9
10	21-00	9	1.15	6.2	8.0	1.077	67	62	329	5	.8
11	00-00	9	1.45	6.8	9.1	1.942	340	57	333	351	10.5
11	03-00	9	1.34	6.8	11.1	1.595	329	23	325	351	18.1
11	06-00	9	1.68	6.7	10.5	3.133	340	20	123	354	22.3
11	09-00	9	1.63	6.0	11.8	2.766	341	20	152	349	16.1
11	15-00	9	1.99	5.6	11.8	4.590	334	26	170	336	10.7
11	18-00	9	2.27	6.4	11.8	6.774	341	25	173	1	14.4
11	21-00	9	1.97	6.2	11.8	5.682	338	21	179	6	12.5
12	00-00	9	1.65	6.4	11.1	3.834	332	23	218	349	38.0
12	03-00	9	1.41	6.4	10.0	1.921	335	44	174	8	16.2
12	09-00	9	1.72	6.7	11.1	3.875	335	28	319	360	21.3
12	12-00	9	2.04	6.6	11.1	4.383	334	27	326	338	20.7
12	15-00	9	1.81	6.5	10.5	3.355	330	32	330	340	13.7
12	18-00	9	2.13	7.0	11.8	4.759	334	24	332	338	19.2
12	21-00	9	2.62	7.3	13.3	8.939	335	17	332	337	23.9
13	03-00	9	3.98	8.7	14.3	30.319	336	22	334	337	50.1
13	06-00	9	3.83	8.6	14.3	30.290	341	24	345	339	39.5
13	09-00	9	3.66	8.6	15.4	23.800	337	20	348	338	34.1
13	12-00	9	3.85	9.2	14.3	27.371	336	14	352	338	53.1

DIA	HORA	NG	HM0 (m)	T02 (s)	TP (s)	SMAX (m2.s)	THTP1 (graus)	SPRTP1 (graus)	THHF1 (graus)	THLF1 (graus)	N
13	21-00	9	3.74	10.0	15.4	27.629	349	13	330	348	68.0
14	00-00	9	3.21	9.5	15.4	22.829	346	14	259	347	55.8
14	06-00	9	2.21	7.9	14.3	8.187	334	26	187	336	20.3
14	09-00	9	2.20	6.4	13.3	6.125	342	26	213	343	12.7
14	12-00	9	2.24	6.4	13.3	7.773	342	21	242	337	27.1
14	15-00	9	2.25	6.9	13.3	9.220	328	21	281	326	32.8
14	18-00	9	2.38	6.7	13.3	8.977	334	22	322	338	13.9
14	21-00	9	2.76	6.9	13.3	10.681	339	27	336	338	18.3
15	03-00	9	3.42	7.9	14.3	16.670	335	18	338	334	58.1
15	06-00	9	3.34	8.1	14.3	17.285	333	24	354	338	27.5
15	09-00	9	3.26	7.7	14.3	15.324	341	17	359	341	25.0
15	12-00	9	3.10	7.2	14.3	9.620	345	19	3	348	15.1
15	15-00	9	3.10	7.6	14.3	10.313	336	28	354	343	15.4
15	18-00	9	3.14	8.3	14.3	21.338	340	19	8	345	43.4
15	21-00	9	3.29	8.5	13.3	24.531	344	22	16	349	18.1
16	00-00	9	3.86	9.2	14.3	34.053	1	14	5	358	45.8
16	03-00	9	3.53	8.8	13.3	19.966	352	20	356	354	15.5
16	06-00	9	3.51	9.2	13.3	25.186	356	23	2	354	18.5
16	12-00	9	2.85	7.9	12.5	11.831	4	23	12	6	6.0
16	21-00	9	2.54	7.6	11.8	8.321	2	24	14	12	10.0
17	00-00	9	2.52	7.4	11.8	8.513	6	24	15	11	9.2
17	03-00	9	2.35	7.1	11.1	5.809	358	25	9	12	5.0
17	06-00	9	2.18	7.4	12.5	4.963	9	31	13	17	5.0
17	09-00	9	2.18	7.5	11.8	6.254	12	27	33	19	6.2
17	15-00	9	1.86	7.2	10.5	4.465	358	21	20	11	8.6
17	18-00	9	1.86	7.7	10.0	4.229	6	26	24	24	7.2
17	21-00	9	1.57	6.9	9.1	2.074	6	34	40	21	2.6
18	03-00	9	1.53	6.8	10.0	1.890	9	26	27	21	4.2
18	12-00	9	1.21	6.8	10.5	1.770	12	25	53	14	6.3
18	15-00	9	1.26	6.5	11.1	1.726	18	27	66	13	5.4
18	18-00	9	1.09	6.4	10.5	1.117	23	36	100	7	1.5
18	21-00	9	1.19	6.6	11.1	1.324	357	40	115	357	1.4
19	03-00	9	1.39	4.8	11.8	1.347	346	38	165	351	2.7
19	06-00	9	1.49	4.5	11.8	.802	341	46	172	343	1.5
19	12-00	9	1.49	4.7	5.5	1.072	177	29	170	348	6.2
19	15-00	9	1.47	4.7	5.5	.794	176	39	178	342	5.1
19	18-00	9	1.37	5.3	12.5	.770	336	38	167	336	8.6
19	21-00	9	1.35	4.9	13.3	1.119	325	35	156	333	7.4
20	00-00	9	1.48	4.5	13.3	.748	341	39	145	341	4.6
20	03-00	9	1.64	4.7	14.3	1.726	344	35	129	352	6.3
20	06-00	9	1.50	5.1	11.8	1.859	332	29	129	335	9.8
20	09-00	9	1.86	5.6	11.8	2.350	326	23	139	334	13.9
20	12-00	9	2.28	6.2	11.8	4.589	334	22	136	336	23.4
20	15-00	9	2.85	6.4	14.3	8.339	338	22	119	340	18.3
20	18-00	9	3.48	7.4	14.3	13.507	342	20	117	346	17.9

DIA	HORA	NG	HM0 (m)	T02 (s)	TP (s)	SMAX (m2.s)	THTP1 (graus)	SPRTP1 (graus)	THHF1 (graus)	THLF1 (graus)	N
20	21-00	9	3.54	7.3	16.7	14.714	347	17	123	338	26.9
21	00-00	9	3.48	7.5	15.4	13.920	349	17	124	355	35.0
21	06-00	9	3.15	7.4	14.3	9.600	347	16	116	349	32.6
21	09-00	9	2.95	7.2	15.4	10.373	348	23	127	350	16.6
21	12-00	9	2.80	6.7	14.3	7.655	349	18	128	23	24.0
21	15-00	9	2.62	6.8	14.3	5.837	351	17	125	16	21.5
21	18-00	9	2.39	6.8	8.0	4.325	128	39	117	20	1.7
21	21-00	9	2.11	6.7	8.0	2.973	125	39	131	31	1.8
22	00-00	9	2.29	7.0	13.3	4.701	350	17	125	21	21.2
22	03-00	9	2.16	6.9	8.0	3.546	139	44	117	26	3.0
22	06-00	9	1.89	6.6	8.0	2.495	140	46	86	16	2.2
22	09-00	9	1.65	6.1	12.5	2.056	352	31	65	22	5.3
22	12-00	9	1.67	6.3	11.1	2.108	346	28	59	8	5.3
22	15-00	9	1.83	6.7	8.0	2.924	131	74	66	1	7.4
22	18-00	9	1.93	7.2	10.0	3.127	334	20	55	356	14.1
22	21-00	9	1.88	6.6	10.0	3.028	332	25	49	350	7.4
23	03-00	9	1.82	6.7	10.0	3.449	334	21	36	353	8.8
23	06-00	9	1.74	6.4	11.1	2.130	338	23	47	350	10.1
23	09-00	9	1.71	6.4	9.1	1.944	331	47	75	350	9.9
23	18-00	9	1.54	6.3	11.1	2.432	338	26	99	347	8.1
23	21-00	9	1.76	7.1	11.8	4.281	341	20	127	341	25.5
24	03-00	9	1.55	6.8	13.3	2.805	345	29	11	348	11.3
24	06-00	9	1.61	6.2	12.5	2.907	341	26	326	340	15.6
24	09-00	9	1.95	5.4	11.1	2.350	328	32	318	334	10.0
24	12-00	9	2.66	6.6	16.7	10.972	336	24	327	330	39.1
24	18-00	9	3.14	7.9	16.7	13.762	344	23	332	334	16.6
24	21-00	9	3.70	9.6	16.7	31.104	342	19	333	334	27.0
25	00-00	9	3.62	8.9	16.7	24.838	342	26	329	334	23.3
25	03-00	9	3.70	8.0	18.2	20.524	345	15	330	335	35.1
25	06-00	9	3.55	8.3	16.7	15.512	356	20	341	343	31.4
25	09-00	9	3.22	8.5	18.2	13.560	354	17	345	343	68.3
25	12-00	9	2.94	9.4	18.2	13.319	350	25	344	337	14.1
25	15-00	9	3.34	9.1	16.7	22.715	344	15	248	337	42.0
25	18-00	9	2.82	7.3	16.7	11.942	345	22	155	343	28.5
25	21-00	9	2.62	7.8	15.4	11.786	353	20	143	350	27.3
26	03-00	9	2.67	9.1	15.4	15.868	346	17	197	344	22.5
26	06-00	9	2.70	7.5	15.4	10.709	353	20	301	349	24.9
26	09-00	9	2.97	6.8	15.4	13.432	342	24	340	343	40.7
26	12-00	9	3.44	6.8	8.0	7.451	344	36	357	342	4.1
26	21-00	9	2.96	6.8	9.1	6.211	21	32	21	0	2.7
27	03-00	9	2.62	6.7	13.3	5.277	346	26	23	351	5.6
27	06-00	9	2.48	6.7	13.3	6.705	345	20	19	351	16.4
27	09-00	9	2.31	6.9	11.1	4.398	345	30	15	3	9.5
27	12-00	9	2.11	6.8	9.1	3.356	15	46	22	5	.9
27	15-00	9	1.97	7.0	9.1	3.238	9	46	33	8	.7

DIA	HORA	NG	HM0 (m)	T02 (s)	TP (s)	SMAX (m2.s)	THTP1 (graus)	SPRTP1 (graus)	THHF1 (graus)	THLF1 (graus)	N
27	18-00	9	1.89	6.9	11.8	2.586	350	26	37	11	7.2
27	21-00	9	2.04	7.2	12.5	3.624	352	21	35	22	10.4
28	00-00	9	1.68	6.7	9.1	2.418	23	41	40	18	1.5
28	03-00	9	1.43	6.0	9.1	1.632	23	42	80	24	1.0
28	09-00	9	1.34	4.8	8.0	1.474	42	35	131	41	3.1
28	12-00	9	1.24	4.8	9.1	1.267	33	46	144	50	1.3
28	15-00	9	1.41	4.9	9.1	2.207	77	30	156	74	5.8
28	18-00	9	1.95	5.9	11.8	3.300	71	34	166	80	8.1
28	21-00	9	2.20	6.8	10.0	6.295	63	29	163	66	6.4
29	03-00	9	2.16	6.5	11.1	8.265	60	29	164	76	6.2
29	12-00	9	1.85	5.8	11.1	4.997	65	31	158	63	8.7
29	15-00	9	1.74	5.4	10.0	3.647	62	31	161	47	3.9
29	18-00	9	1.86	5.3	10.0	3.453	86	35	172	78	2.6
30	06-00	9	2.07	5.8	10.0	2.878	91	48	167	47	1.1
30	12-00	9	1.73	5.8	7.0	2.206	157	40	141	30	2.4
30	15-00	9	1.65	6.1	11.1	1.628	340	61	146	9	1.7
30	18-00	9	1.71	6.4	9.1	2.252	114	67	168	19	.4
30	21-00	9	1.91	5.9	9.1	2.242	59	61	171	26	.6
31	00-00	9	2.00	5.7	11.1	4.225	31	53	181	31	.7
31	06-00	9	1.60	6.4	11.1	2.715	30	52	181	48	1.0
31	09-00	9	1.73	6.2	11.1	2.731	17	48	195	23	.3
31	12-00	9	1.53	6.1	10.5	2.989	31	40	290	22	1.9
31	15-00	9	1.50	5.9	10.5	2.264	23	40	258	23	1.2
31	18-00	9	1.27	5.9	10.5	1.222	12	53	186	18	.6
31	21-00	9	1.34	5.4	10.5	1.682	3	48	180	8	.7

DIA	HORA	NG	HM0 (m)	T02 (s)	TP (s)	SMAX (m2.s)	THTP1 (graus)	SPRTP1 (graus)	THHF1 (graus)	THLF1 (graus)	N
01	00-00	9	1.50	4.9	10.0	1.839	359	43	215	1	1.2
01	03-00	9	1.75	4.9	10.5	2.298	346	39	203	345	3.7
01	06-00	9	1.53	5.1	8.0	1.481	209	52	238	339	3.4
01	12-00	9	2.07	5.5	10.0	2.845	353	37	351	352	8.0
01	15-00	9	1.98	5.9	9.1	2.912	344	31	349	353	8.9
01	18-00	9	1.93	6.4	9.1	3.092	333	30	345	346	7.3
01	21-00	9	2.02	6.3	10.5	2.916	345	33	346	353	8.4
02	03-00	9	2.28	6.1	9.1	3.682	343	25	346	346	7.0
02	06-00	9	2.23	6.3	10.0	4.691	343	26	348	341	13.6
02	09-00	9	2.65	7.2	10.5	9.105	349	23	10	354	9.6
02	15-00	9	2.23	7.4	10.5	7.924	350	19	6	358	11.6
02	18-00	9	2.03	7.7	10.5	6.115	346	18	6	353	15.1
02	21-00	9	2.01	7.5	10.5	5.153	345	19	14	351	15.5
03	00-00	9	1.97	7.0	11.8	3.433	353	27	337	358	7.5
03	03-00	9	2.24	7.6	13.3	6.881	359	21	294	356	13.4
03	06-00	9	2.43	8.5	13.3	12.487	356	18	208	360	15.7
03	09-00	9	2.11	7.4	13.3	6.756	358	26	196	7	7.8
03	12-00	9	1.99	6.3	13.3	6.161	2	19	182	12	13.1
03	15-00	9	1.82	5.6	13.3	3.678	10	26	188	15	8.8
03	18-00	9	1.71	5.5	13.3	3.377	8	26	191	7	8.0
03	21-00	9	1.75	5.5	13.3	3.015	1	34	188	8	6.6
04	00-00	9	2.03	5.7	11.8	3.343	0	30	183	354	7.3
04	03-00	9	1.76	5.3	16.7	2.559	357	24	180	3	32.1
04	06-00	9	1.78	5.3	16.7	1.530	356	33	168	10	12.4
04	09-00	9	2.27	5.8	16.7	4.015	346	31	173	338	19.9
04	12-00	9	2.94	6.1	8.0	7.081	188	21	168	347	18.8
04	15-00	9	2.66	6.1	8.0	6.483	189	26	171	314	5.1
04	18-00	9	2.18	6.4	9.1	4.363	189	34	159	315	8.7
04	21-00	9	2.25	6.5	8.0	4.493	180	25	162	303	13.5
05	03-00	9	2.19	6.7	14.3	3.530	352	24	148	328	24.1
05	09-00	9	2.05	7.3	14.3	4.985	344	27	145	336	15.1
05	12-00	9	2.11	7.3	12.5	5.535	347	17	154	341	29.2
05	15-00	9	2.20	7.2	8.0	4.892	174	38	136	359	5.7
05	18-00	9	2.12	7.4	13.3	4.579	349	21	133	358	25.3
05	21-00	9	2.19	7.5	12.5	6.875	342	18	140	354	38.0
06	03-00	9	1.99	6.8	8.0	3.427	177	55	131	1	7.3
06	06-00	9	1.97	7.4	11.8	5.038	348	21	126	10	21.4
06	09-00	9	1.92	7.4	11.8	4.293	348	23	137	14	11.0
06	12-00	9	1.76	7.2	11.1	2.998	342	27	147	18	5.4
06	15-00	9	1.90	6.9	11.1	4.772	349	21	124	24	14.1
06	18-00	9	1.79	6.6	8.0	2.673	107	49	124	28	1.3
06	21-00	9	1.98	6.7	11.1	5.724	347	19	121	34	15.7
07	00-00	9	1.98	5.9	10.5	3.099	347	31	96	38	6.4
07	03-00	9	1.97	5.7	10.5	3.704	355	25	62	21	7.8
07	18-00	9	3.88	6.8	9.1	13.898	106	30	96	106	5.9

DIA	HORA	NG	HM0 (m)	T02 (s)	TP (s)	SMAX (m2.s)	THTP1 (graus)	SPRTP1 (graus)	THHF1 (graus)	THLF1 (graus)	N
07	21-00	9	3.70	6.7	10.5	15.188	116	27	95	112	10.9
08	00-00	9	3.51	6.5	9.1	10.944	108	29	95	110	7.5
08	03-00	9	3.19	6.2	10.5	9.208	115	32	92	107	4.8
08	06-00	9	3.38	6.6	10.0	14.629	104	27	82	102	5.8
08	09-00	9	3.30	6.5	10.0	14.439	113	28	88	106	4.8
08	12-00	9	2.90	6.3	9.1	10.202	117	33	86	112	3.4
08	15-00	9	2.68	6.2	9.1	7.336	116	42	81	106	1.5
08	21-00	9	2.92	6.0	9.1	10.199	114	34	66	96	2.4
09	03-00	9	2.79	6.1	9.1	9.697	101	27	63	105	5.0
09	09-00	9	2.71	6.1	9.1	9.395	98	22	52	94	10.9
09	12-00	9	2.96	6.4	9.1	13.914	104	20	47	98	13.0
09	15-00	9	2.95	6.5	9.1	11.726	103	24	46	84	8.2
09	18-00	9	2.84	6.3	9.1	10.504	96	24	43	75	6.2
09	21-00	9	2.62	6.2	9.1	8.863	82	23	38	54	8.8
10	03-00	9	2.67	6.5	9.1	8.233	98	28	41	94	5.3
10	06-00	9	2.80	6.6	10.0	10.420	109	20	44	91	19.5
10	12-00	9	2.35	6.6	10.0	8.061	111	25	45	94	11.2
10	15-00	9	2.11	6.7	10.5	7.061	111	25	52	92	9.7
10	18-00	9	2.12	6.9	10.5	6.501	105	29	63	97	6.6
10	21-00	9	2.02	6.9	10.0	5.561	100	25	69	73	11.9
11	00-00	9	2.21	7.7	10.0	11.012	97	22	64	80	11.9
11	03-00	9	1.99	7.3	10.0	5.437	96	35	85	82	5.3
11	06-00	9	1.78	6.8	10.0	4.750	98	31	95	89	5.2
11	09-00	9	1.97	6.4	9.1	4.460	88	30	104	59	5.8
11	12-00	9	1.82	5.9	9.1	4.419	86	32	125	55	3.9
11	15-00	9	1.63	6.0	10.0	3.190	97	33	147	78	6.0
11	18-00	9	1.60	6.0	9.1	3.941	97	26	163	74	6.4
11	21-00	9	1.49	5.3	9.1	2.596	84	31	161	60	6.1
12	00-00	9	1.46	5.9	9.1	2.683	75	34	162	52	4.0
12	03-00	9	1.45	5.6	9.1	2.068	87	36	172	52	3.7
12	06-00	9	1.26	5.0	8.0	1.333	92	36	171	55	2.8
12	12-00	9	1.34	5.7	9.1	1.380	66	45	163	15	1.8
12	15-00	9	1.53	6.8	15.4	3.898	351	24	172	9	34.8
12	18-00	9	2.13	8.2	16.7	9.202	348	18	208	356	42.8
12	21-00	9	2.73	9.5	16.7	13.583	352	18	240	354	48.9
13	03-00	9	3.17	10.4	16.7	27.270	351	17	316	345	82.5
13	06-00	9	2.65	9.4	16.7	14.217	349	22	315	341	31.6
13	12-00	9	3.15	9.4	15.4	19.177	359	15	344	354	51.1
13	15-00	9	3.39	9.3	15.4	22.742	350	19	343	347	50.8
13	18-00	9	3.06	9.2	15.4	14.550	350	19	352	347	27.0
13	21-00	9	3.45	9.3	15.4	18.069	351	27	359	350	42.0
14	00-00	9	2.84	8.9	15.4	10.573	0	15	10	356	31.2
14	03-00	9	3.02	9.6	15.4	17.695	352	16	357	350	46.4
14	06-00	9	2.96	10.2	15.4	18.769	353	22	352	348	48.0
14	09-00	9	3.09	10.4	15.4	17.657	359	17	3	354	55.0

DIA	HORA	NG	HM0 (m)	T02 (s)	TP (s)	SMAX (m2.s)	THTP1 (graus)	SPRTP1 (graus)	THHF1 (graus)	THLF1 (graus)	N
14	12-00	9	2.94	10.3	15.4	17.293	3	14	357	359	79.2
14	15-00	9	2.68	9.6	14.3	14.283	357	14	346	353	46.2
14	18-00	9	2.23	9.2	14.3	8.587	354	21	329	352	19.1
14	21-00	9	2.32	9.6	14.3	11.823	354	18	313	356	34.3
15	00-00	9	2.14	9.0	13.3	7.966	357	16	333	358	19.9
15	03-00	9	2.24	9.5	13.3	8.064	356	13	334	357	36.6
15	06-00	9	1.86	8.8	12.5	3.903	353	27	295	357	10.4
15	15-00	9	1.73	5.9	12.5	3.403	358	22	328	3	12.5
15	18-00	9	1.82	6.6	12.5	5.064	346	23	303	349	15.5
15	21-00	9	1.87	6.8	11.8	3.349	348	26	344	352	10.0
16	03-00	9	2.06	7.9	14.3	7.996	349	24	351	350	20.7
16	12-00	9	2.47	7.3	14.3	6.156	2	24	360	3	7.7
16	15-00	9	3.06	8.1	13.3	10.025	359	19	354	358	14.2
16	18-00	9	3.26	8.9	13.3	17.152	350	24	349	352	14.9
16	21-00	9	2.75	8.9	13.3	9.955	353	23	358	358	23.2
17	00-00	9	2.99	9.3	13.3	14.867	1	18	358	2	15.2
17	03-00	9	3.07	9.1	12.5	15.060	357	15	348	359	31.2
17	06-00	9	3.64	9.5	14.3	22.750	358	21	340	356	27.2
17	09-00	9	3.31	8.7	14.3	14.506	355	25	345	357	10.9
17	15-00	9	3.07	8.6	13.3	15.275	1	18	349	3	22.2
17	18-00	9	3.62	9.3	13.3	21.710	358	24	338	358	12.0
17	21-00	9	4.17	10.3	14.3	37.133	1	22	347	359	18.4
18	01-04	9	4.79	10.2	13.3	44.459	3	15	352	2	34.9
18	01-44	9	4.21	9.6	14.3	34.151	3	15	349	0	28.6
18	03-00	9	4.09	9.1	15.4	24.217	7	16	346	3	24.3
18	06-00	9	3.54	8.9	14.3	20.317	0	22	345	359	10.4
18	09-00	9	3.58	8.9	13.3	25.215	356	20	329	359	26.4
18	12-00	9	3.72	8.4	13.3	19.860	2	27	348	3	8.0
18	15-00	9	4.64	9.1	12.5	43.120	360	18	356	3	18.1
18	17-53	9	4.36	8.8	13.3	31.451	0	28	357	360	6.2
18	21-00	9	4.23	9.1	13.3	31.143	2	25	10	359	7.1
19	03-00	9	4.22	9.7	13.3	43.092	4	14	13	3	25.5
19	06-00	9	3.53	8.9	13.3	22.925	357	19	15	2	9.1
19	09-00	9	3.12	8.7	12.5	14.776	357	27	20	2	10.2
19	12-00	9	3.29	8.8	12.5	15.105	1	26	28	6	4.6
19	15-00	9	3.11	8.8	11.1	13.859	4	16	22	8	17.5
19	18-00	9	2.66	8.4	12.5	9.026	4	22	36	7	8.6
19	21-00	9	2.40	8.6	11.8	10.302	4	23	60	10	7.5
20	00-00	9	2.47	8.2	11.8	7.814	359	27	65	14	3.5
20	03-00	9	2.45	8.6	11.8	9.045	9	22	61	11	7.7
20	06-00	9	2.46	8.2	12.5	9.494	26	25	86	19	5.2
20	09-00	9	2.14	7.5	11.8	5.820	21	26	129	24	4.7
21	03-00	9	1.72	5.4	11.8	3.569	36	24	158	42	8.1
21	06-00	9	1.67	5.1	11.1	2.365	30	28	154	42	5.5
21	15-00	9	1.76	4.9	5.5	2.122	160	28	154	50	3.9

DIA	HORA	NG	HM0 (m)	T02 (s)	TP (s)	SMAX (m2.s)	THTP1 (graus)	SPRTP1 (graus)	THHF1 (graus)	THLF1 (graus)	N
21	18-00	9	1.53	5.0	10.5	1.722	38	25	157	54	7.4
21	21-00	9	1.71	4.7	6.2	1.329	177	32	169	60	4.3
22	03-00	9	1.73	5.0	7.0	2.064	189	28	183	55	11.0
22	06-00	9	1.50	5.0	11.1	1.300	32	38	193	56	1.5
22	09-00	9	1.43	5.0	7.0	1.618	189	27	284	1	11.5
22	15-00	9	1.69	5.5	11.8	2.157	344	28	20	9	8.7
22	18-00	9	1.84	5.8	7.0	2.051	5	51	15	360	3.8
22	21-00	9	1.92	6.4	10.0	2.784	355	32	12	359	2.6
23	03-00	9	1.94	6.6	10.0	3.685	7	39	33	17	1.3
23	06-00	9	2.01	6.5	10.0	4.741	23	33	58	23	2.5
23	09-00	9	1.93	5.4	10.5	3.369	42	31	121	54	3.0
23	15-00	9	2.30	5.4	6.2	4.021	172	21	168	61	9.3
23	18-00	9	2.04	5.5	6.2	2.810	166	27	164	57	5.2
23	21-00	9	1.88	5.5	10.5	3.460	37	31	173	56	2.8
24	03-00	9	1.81	5.5	10.0	2.880	47	34	176	54	1.9
24	06-00	9	1.93	4.8	10.0	2.568	45	36	178	65	1.9
24	09-00	9	1.62	5.5	10.5	1.818	33	29	170	57	4.6
25	03-00	9	1.41	5.0	8.0	1.166	246	76	330	339	2.2
25	06-00	9	1.52	5.6	10.5	1.551	338	32	336	349	11.8
25	09-00	9	1.57	6.2	10.0	2.335	347	24	350	353	8.6
25	12-00	9	1.88	7.0	10.0	3.436	344	25	1	353	10.8
25	15-00	9	1.93	6.4	10.0	3.739	344	21	238	335	12.1
25	18-00	9	1.64	6.0	11.1	2.144	349	25	183	346	10.6
25	21-00	9	1.48	6.4	9.1	1.789	4	34	173	2	2.6
26	03-00	9	1.26	6.7	11.1	1.146	343	32	173	348	7.5
26	06-00	9	1.30	6.4	9.1	1.450	12	37	180	0	2.3
26	09-00	9	1.17	5.3	8.0	0.901	18	45	172	5	2.0
26	12-00	9	1.01	5.1	9.1	0.812	32	38	168	7	3.1
26	15-00	9	1.29	4.6	8.0	0.660	80	60	162	20	0.5
26	18-00	9	1.67	4.9	5.5	1.686	192	27	179	19	5.6
26	21-00	9	1.94	5.2	7.0	2.382	186	53	186	17	3.4
27	00-00	9	1.68	5.6	8.0	1.819	166	59	180	35	2.5
27	03-00	9	2.31	5.9	10.0	3.227	43	64	301	28	2.4
27	06-00	9	2.34	6.0	11.8	6.091	61	30	334	29	5.5
27	09-00	9	2.62	6.3	11.8	8.922	54	38	338	24	2.4
27	15-00	9	3.02	6.4	10.5	7.039	30	47	338	1	0.4
27	18-00	9	3.34	6.7	10.5	12.073	8	35	344	354	2.7
27	18-50	9	3.67	6.9	10.5	11.990	26	46	348	357	0.3
27	21-00	9	3.47	6.8	9.1	8.365	4	39	1	4	1.4
28	00-00	8	3.10	6.6	11.1	8.811	14	40	353	360	0.9
28	03-00	9	3.10	6.7	10.5	9.532	17	46	353	352	1.1
28	06-00	9	3.09	7.1	10.0	8.449	15	44	5	359	1.1
28	09-00	9	2.85	7.1	10.5	9.706	22	43	8	11	0.5
28	12-00	9	2.90	7.7	10.5	12.701	24	34	8	16	2.0
28	15-00	9	2.63	7.7	11.1	8.867	36	38	5	11	1.7

DIA	HORA	NG	HM0 (m)	T02 (s)	TP (s)	SMAX (m2.s)	THTP1 (graus)	SPRTP1 (graus)	THHF1 (graus)	THLF1 (graus)	N
28	18-00	9	2.35	7.6	10.5	9.017	59	40	9	25	1.6
28	21-00	9	2.47	7.8	10.5	9.385	50	34	30	34	2.3

DIA	HORA	NG	HM0 (m)	T02 (s)	TP (s)	SMAX (m2.s)	THTP1 (graus)	SPRTP1 (graus)	THHF1 (graus)	THLF1 (graus)	N
01	03-00	9	2.07	7.5	10.0	5.729	45	37	7	28	2.0
01	06-00	9	1.96	7.7	9.1	3.812	60	46	55	28	0.9
01	09-00	9	1.87	7.3	10.0	4.614	59	41	100	33	0.7
01	21-00	9	1.77	7.1	9.1	3.382	94	55	102	20	1.8
02	00-00	9	1.61	7.0	9.1	2.637	63	54	21	24	0.5
02	03-00	9	1.50	6.6	9.1	2.437	75	53	22	38	1.0
02	06-00	9	1.41	7.0	9.1	1.917	71	49	68	21	0.5
02	09-00	9	1.63	7.4	13.3	2.900	338	36	83	25	31.8
02	12-00	9	1.80	7.6	9.1	3.847	47	51	46	15	0.4
02	21-00	9	1.63	7.1	10.0	2.548	69	56	170	27	2.0
03	00-00	9	1.65	6.0	12.5	2.312	355	35	186	30	6.4
03	03-00	9	1.72	6.5	12.5	4.716	352	23	210	13	9.0
03	06-00	9	1.56	6.7	13.3	4.025	356	33	202	11	3.3
03	15-00	9	1.88	5.3	12.5	3.468	4	29	311	359	4.8
03	18-00	9	1.63	6.1	12.5	3.763	1	29	294	353	6.1
03	21-00	9	1.80	6.5	13.3	5.415	13	27	309	352	6.1
04	00-00	9	2.24	6.3	12.5	5.770	12	30	342	2	5.4
04	03-00	9	2.22	6.1	11.1	3.837	358	23	342	4	14.0
04	06-00	9	2.42	6.6	11.8	6.514	355	27	338	359	10.2
04	12-00	9	3.21	8.7	12.5	18.521	5	21	4	1	14.6
04	15-00	9	3.18	9.0	12.5	23.880	1	17	12	359	26.3
04	18-00	9	2.22	7.8	11.8	6.714	350	31	15	2	4.6
04	21-00	9	2.18	8.2	12.5	6.104	7	31	61	11	3.2
05	03-00	9	1.73	6.9	11.1	4.761	3	25	250	20	6.2
05	09-00	9	1.76	7.8	11.1	5.008	20	33	205	26	3.3
05	12-00	9	1.83	7.7	10.0	4.737	24	28	185	32	4.4
05	15-00	9	1.64	7.5	12.5	3.211	30	30	196	22	3.8
05	18-00	9	1.54	7.8	10.5	3.728	26	37	229	14	1.6
05	21-00	9	1.61	8.2	12.5	4.388	353	29	227	360	4.7
06	00-00	9	1.78	8.2	11.8	5.411	13	37	219	16	1.5
06	03-00	9	1.66	7.2	11.1	4.263	23	36	291	24	1.2
06	18-00	9	1.48	6.5	11.1	3.879	23	36	204	23	1.6
06	21-00	9	1.44	6.4	11.8	2.973	9	44	206	356	0.9
07	03-00	9	1.47	5.1	11.1	2.606	16	40	194	22	0.8
07	09-00	9	1.54	5.0	11.1	1.647	9	52	188	26	0.7
07	12-00	9	1.47	5.1	11.1	1.645	15	57	185	18	1.3
07	18-00	9	1.56	4.8	6.2	1.039	193	37	194	357	5.8
07	21-00	9	1.36	4.9	6.2	0.800	190	36	194	356	6.2
08	00-00	9	1.34	4.8	6.2	0.919	182	29	185	6	7.7
08	03-00	9	1.31	4.4	5.5	0.649	180	32	190	19	4.8
08	06-00	9	1.27	4.8	11.8	0.772	343	36	189	349	12.3
08	09-00	9	1.34	4.7	6.2	0.826	186	39	196	355	5.7
08	12-00	9	1.24	4.9	11.1	1.099	337	31	199	354	6.3
08	21-00	9	1.08	5.7	11.1	0.801	340	32	256	343	13.4
09	03-00	9	1.08	6.1	10.5	0.788	347	44	294	347	12.0

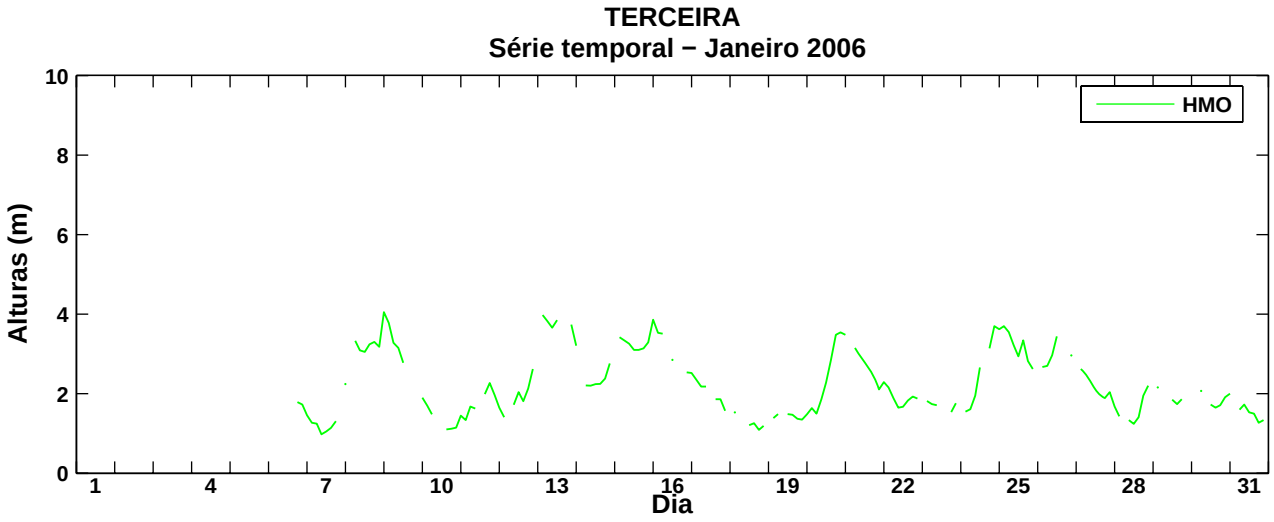
DIA	HORA	NG	HM0 (m)	T02 (s)	TP (s)	SMAX (m2.s)	THTP1 (graus)	SPRTP1 (graus)	THHF1 (graus)	THLF1 (graus)	N
09	06-00	9	1.15	6.3	14.3	1.504	357	24	344	351	32.3
09	09-00	9	1.46	6.9	13.3	2.434	352	21	355	346	54.8
09	12-00	9	1.81	7.9	13.3	4.359	342	20	5	346	12.4
09	15-00	9	2.03	8.0	12.5	5.444	346	15	32	349	25.5
09	18-00	9	2.09	8.2	13.3	5.404	353	15	45	354	40.6
09	21-00	9	1.96	7.7	12.5	6.784	347	16	61	350	26.9
10	00-00	9	1.68	6.5	11.8	3.241	349	21	112	354	13.1
10	03-00	9	1.91	7.0	11.8	6.183	349	17	150	359	20.0
10	06-00	9	1.62	6.2	12.5	3.554	359	19	161	8	13.3
10	12-00	9	1.67	6.4	11.8	4.434	357	19	157	1	27.1
10	15-00	9	1.58	5.6	11.1	3.618	357	21	161	7	17.2
10	21-00	9	1.60	5.6	14.3	2.395	10	26	162	3	13.0
11	00-00	9	1.94	6.4	12.5	4.790	3	18	166	358	18.3
11	03-00	9	2.10	5.8	13.3	5.301	0	19	180	1	13.9
11	06-00	9	2.11	5.6	14.3	4.146	5	24	180	7	16.4
11	09-00	9	2.14	5.5	14.3	3.039	357	24	178	14	18.4
11	12-00	9	2.15	5.4	7.0	3.116	178	23	174	18	8.7
11	15-00	9	2.51	5.5	7.0	5.645	179	20	179	36	10.5
11	18-00	9	2.17	5.5	7.0	4.473	176	22	171	32	8.3
12	03-00	9	2.09	5.9	7.0	3.385	173	25	171	358	6.3
12	06-00	9	1.96	6.5	8.0	3.303	168	22	162	351	12.9
12	09-00	9	1.72	6.5	12.5	2.368	351	25	171	355	13.6
12	12-00	9	1.85	6.6	12.5	3.992	339	20	198	339	24.7
12	15-00	9	1.90	6.7	14.3	2.385	339	30	208	328	12.5
12	18-00	9	1.98	7.0	14.3	3.674	350	22	196	339	26.1
12	21-00	9	1.93	7.5	13.3	4.132	344	23	225	345	30.2
13	00-00	9	1.84	7.4	12.5	4.039	345	19	303	345	27.0
13	03-00	9	1.61	6.5	11.8	2.518	341	28	182	353	9.2
13	06-00	9	1.81	6.1	11.8	3.354	339	27	180	353	13.4
13	09-00	9	1.75	5.2	10.5	2.043	340	32	182	355	10.1
13	12-00	9	1.78	5.0	11.1	2.876	348	27	183	351	14.8
13	15-00	9	1.79	5.0	11.1	1.911	343	33	177	50	20.2
13	18-00	9	1.70	4.9	11.1	1.467	347	37	174	25	6.9
13	21-00	9	1.45	4.9	7.0	0.917	138	49	168	1	2.3
14	21-00	9	2.59	5.7	7.0	6.019	192	26	195	330	11.3
15	00-00	9	2.07	5.8	8.0	3.709	193	50	194	298	4.3
15	12-00	9	2.19	5.7	13.3	2.958	328	33	240	328	9.3
15	15-00	9	2.12	5.9	13.3	2.104	330	48	253	316	8.4
15	18-00	9	2.18	6.9	16.7	4.522	350	28	266	321	37.9
15	21-00	9	2.37	6.3	16.7	3.979	349	28	308	338	19.5
16	00-00	9	2.93	6.4	9.1	6.202	336	28	335	345	13.2
16	12-00	9	2.34	6.0	11.8	3.226	341	26	353	344	16.2
16	15-00	9	2.68	5.9	8.0	3.953	341	25	345	343	7.0
16	18-00	9	2.31	5.7	8.0	3.865	343	26	343	343	7.6
16	21-00	9	2.32	5.9	10.5	3.802	339	24	357	350	9.2

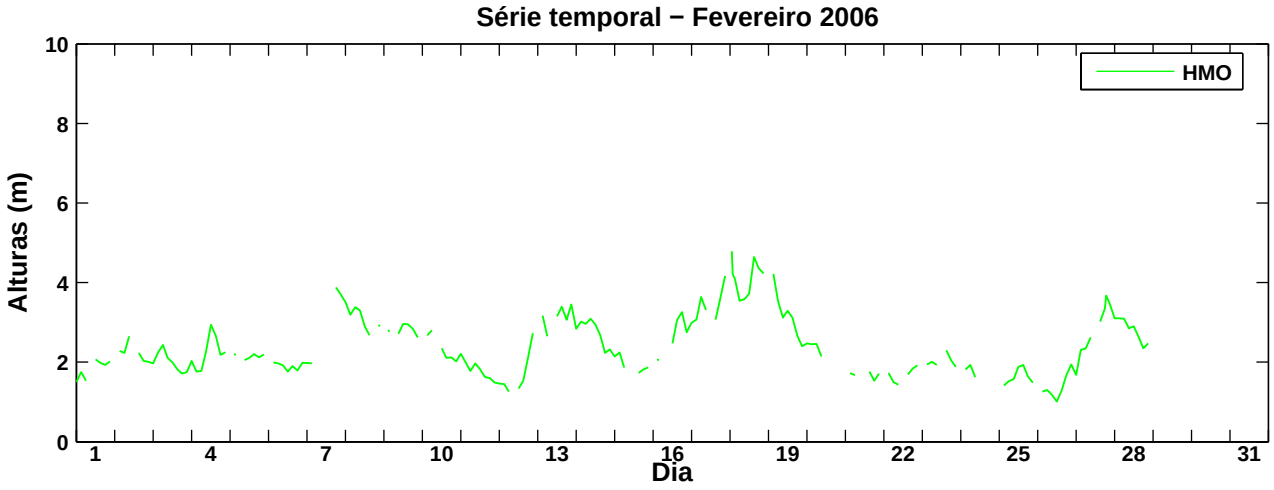
DIA	HORA	NG	HM0 (m)	T02 (s)	TP (s)	SMAX (m2.s)	THTP1 (graus)	SPRTP1 (graus)	THHF1 (graus)	THLF1 (graus)	N
17	12-00	9	2.70	6.1	9.1	7.041	19	34	20	17	1.8
17	15-00	9	2.64	6.2	9.1	7.506	4	31	16	13	3.5
17	18-00	9	2.36	6.0	9.1	5.680	18	35	11	16	2.2
17	21-00	9	2.20	6.0	9.1	4.617	10	32	16	20	2.5
18	00-00	9	2.18	6.1	8.0	4.832	36	34	25	32	2.0
18	03-00	9	2.70	7.1	9.1	9.538	31	20	19	37	9.8
18	06-00	9	2.76	7.4	10.0	11.156	38	20	31	39	12.7
18	09-00	9	2.50	7.2	10.0	8.311	39	26	38	45	4.8
18	18-00	9	2.85	7.6	10.0	11.403	34	21	17	33	11.1
19	21-00	9	2.87	6.9	12.5	8.554	51	25	4	42	9.2
20	00-00	9	3.12	7.3	11.8	12.367	51	20	3	47	13.9
20	03-00	9	2.70	7.1	11.1	8.860	52	23	7	47	9.6
20	06-00	9	2.65	7.3	11.8	7.561	62	30	5	51	4.8
20	12-00	9	2.30	7.4	12.5	7.498	54	23	14	54	14.1
20	18-00	9	2.12	7.6	12.5	7.397	58	29	5	57	4.7
20	21-00	9	2.32	8.1	11.8	7.315	56	26	15	59	8.1
21	00-00	9	1.84	6.9	11.1	4.341	53	27	41	66	5.9
21	03-00	9	1.72	6.3	11.1	3.550	57	24	109	69	7.5
21	09-00	9	1.62	5.8	10.0	2.264	54	34	172	78	2.1
21	15-00	9	1.51	5.9	10.5	3.130	56	30	178	81	4.4
21	18-00	9	1.40	5.5	10.5	2.442	61	31	181	87	4.6
21	21-00	9	1.64	5.1	10.5	1.723	61	39	193	89	6.3
22	00-00	9	2.02	5.1	8.0	2.355	192	43	204	116	6.7
22	03-00	9	1.72	5.0	8.0	2.009	196	47	208	119	7.0
22	09-00	9	2.12	5.6	9.1	4.009	186	43	193	152	7.1
22	12-00	9	1.86	5.1	8.0	2.261	189	44	198	150	4.2
22	18-00	9	1.85	4.9	8.0	2.403	197	49	226	276	4.7
22	21-00	9	1.95	5.3	7.0	2.313	196	40	216	233	8.4
23	00-00	9	2.10	5.0	8.0	2.386	199	54	215	244	7.4
23	03-00	9	2.06	5.4	8.0	2.870	237	67	250	244	4.0
23	06-00	9	2.06	5.1	8.0	2.817	240	68	293	255	4.3
23	09-00	9	2.12	5.2	9.1	2.665	226	56	279	233	2.2
23	12-00	9	2.19	5.5	10.0	3.773	297	54	297	283	2.2
23	15-00	9	2.06	5.5	10.0	2.868	265	70	290	310	6.6
23	18-00	9	2.11	6.2	10.5	3.974	330	45	323	320	9.0
23	21-00	9	1.86	6.2	9.1	2.818	306	63	260	321	4.6
24	03-00	9	2.02	5.5	8.0	2.168	296	61	208	325	2.3
24	09-00	9	1.95	4.7	6.2	1.691	192	31	203	269	10.7
24	12-00	9	2.12	5.2	8.0	2.849	191	38	186	227	7.2
24	15-00	9	2.51	5.7	8.0	5.779	194	28	190	171	14.2
24	18-00	9	2.44	5.6	9.1	4.013	203	44	212	233	7.3
24	21-00	9	2.35	6.0	9.1	4.811	196	49	192	197	6.9
25	03-00	9	2.47	6.1	9.1	6.364	190	29	195	184	17.1
25	06-00	9	2.45	5.7	10.5	4.504	206	51	209	253	6.5
26	00-00	9	2.36	6.4	10.5	3.882	202	62	268	240	6.7

DIA	HORA	NG	HM0 (m)	T02 (s)	TP (s)	SMAX (m2.s)	THTP1 (graus)	SPRTP1 (graus)	THHF1 (graus)	THLF1 (graus)	N
26	03-00	9	2.38	6.3	9.1	4.598	208	61	311	264	7.3
26	15-00	9	2.92	7.4	11.8	13.194	351	29	344	356	14.8
26	18-00	9	2.75	7.1	10.5	9.881	357	29	348	4	16.1
26	21-00	9	2.83	7.7	11.1	10.631	358	23	355	357	10.8
27	00-00	9	3.10	8.1	11.1	17.530	351	17	350	357	19.9
27	03-00	9	2.53	8.0	10.5	9.159	352	23	353	360	12.6
27	09-00	9	2.25	7.8	13.3	4.698	8	20	5	7	18.5
27	12-00	9	2.45	7.6	12.5	6.408	2	23	346	3	13.7
27	15-00	9	2.31	7.8	12.5	5.837	5	29	336	5	4.8
27	18-00	9	2.31	7.5	11.8	7.850	4	18	210	6	22.0
27	21-00	9	2.23	7.2	11.1	7.531	0	19	213	5	13.5
28	00-00	9	2.20	6.5	12.5	5.522	7	24	207	6	11.5
28	03-00	9	2.50	6.4	12.5	5.779	8	24	190	8	13.2
28	09-00	9	2.24	6.4	13.3	6.417	15	20	225	5	12.2
28	12-00	9	2.16	7.0	13.3	6.797	12	22	199	5	12.6
28	15-00	9	2.13	6.5	13.3	4.798	3	26	201	356	7.9
28	18-00	9	2.00	6.4	12.5	5.007	4	25	205	356	8.2
28	21-00	9	1.84	5.5	12.5	3.792	6	25	203	3	11.6
29	00-00	9	2.21	5.5	12.5	5.185	3	27	199	358	6.6
29	03-00	9	2.25	6.0	11.8	4.149	352	30	191	354	4.9
29	12-00	9	2.02	5.7	13.3	4.648	18	25	199	3	18.1
29	15-00	9	1.99	5.9	13.3	4.788	17	31	208	344	5.2
29	18-00	9	2.13	6.5	13.3	5.450	15	30	210	351	6.4
29	21-00	9	2.28	6.4	13.3	5.722	13	27	235	353	6.1
30	00-00	9	2.14	6.5	12.5	5.353	21	28	313	358	4.9
30	03-00	9	1.98	7.4	12.5	5.909	9	29	223	348	4.3
30	09-00	9	1.98	7.0	12.5	4.578	10	34	210	353	3.0
30	15-00	9	2.09	5.7	12.5	6.926	3	26	225	346	8.4
30	21-00	9	1.73	6.1	12.5	3.478	358	35	202	348	2.8
31	00-00	9	1.80	6.4	13.3	3.081	358	22	265	358	12.6
31	03-00	9	1.91	6.7	11.8	4.818	358	30	248	356	5.3
31	06-00	9	2.08	8.1	12.5	6.830	8	27	217	355	5.9
31	09-00	9	2.10	7.8	12.5	8.322	2	29	212	1	3.3
31	12-00	9	2.07	6.8	11.8	6.259	11	26	265	10	6.5
31	15-00	9	2.13	6.5	12.5	6.294	6	27	261	10	7.5
31	18-00	9	2.20	7.3	12.5	7.967	10	27	211	5	5.7
31	21-00	9	1.93	7.1	11.8	5.163	8	24	208	9	8.0

ANEXO E

Gráficos temporais de HM0, T02, TP, THTP1, SPRTP1, THHF1 E THLF1


TERCEIRA
Série temporal − Janeiro 2006
HMO
Alturas (m)
Dia
0
2
4
6
8
10
1
4
7
10
13
16
19
22
25
28
31


Série temporal − Fevereiro 2006
HMO
Alturas (m)
Dia
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2
4
6
8
10
1
4
7
10
13
16
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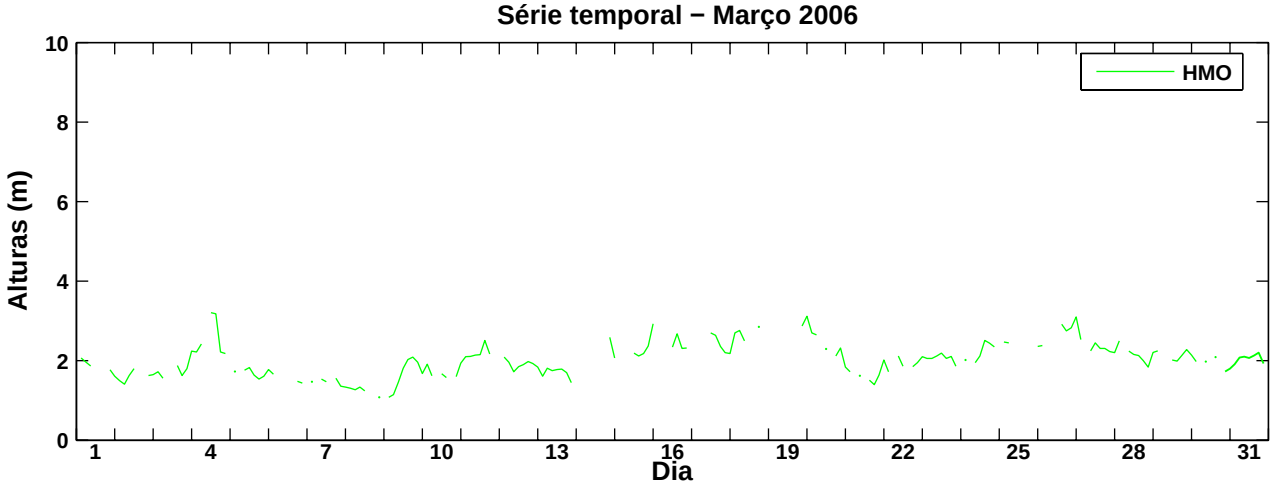
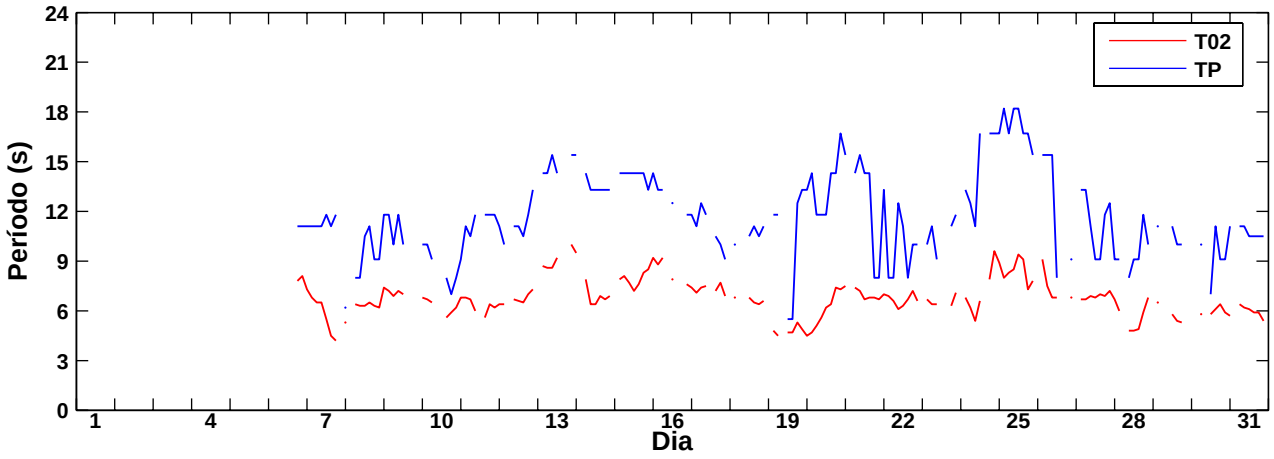
22
25
28
31


Série temporal − Março 2006
HMO
Alturas (m)
Dia
0
2
4
6
8
10
1
4
7
10
13
16
19
22
25
28
31

TERCEIRA
Séries temporais − Janeiro 2006



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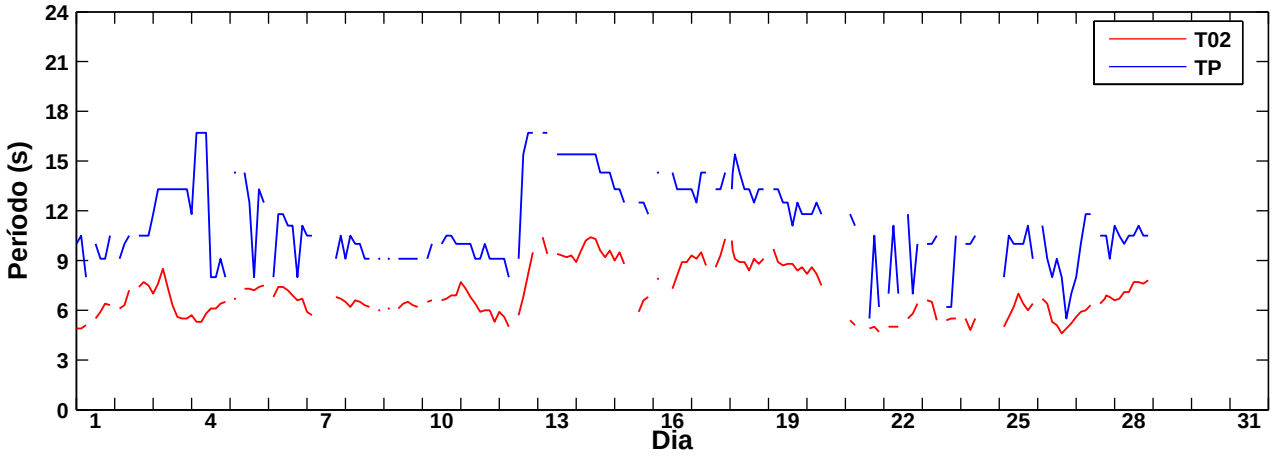
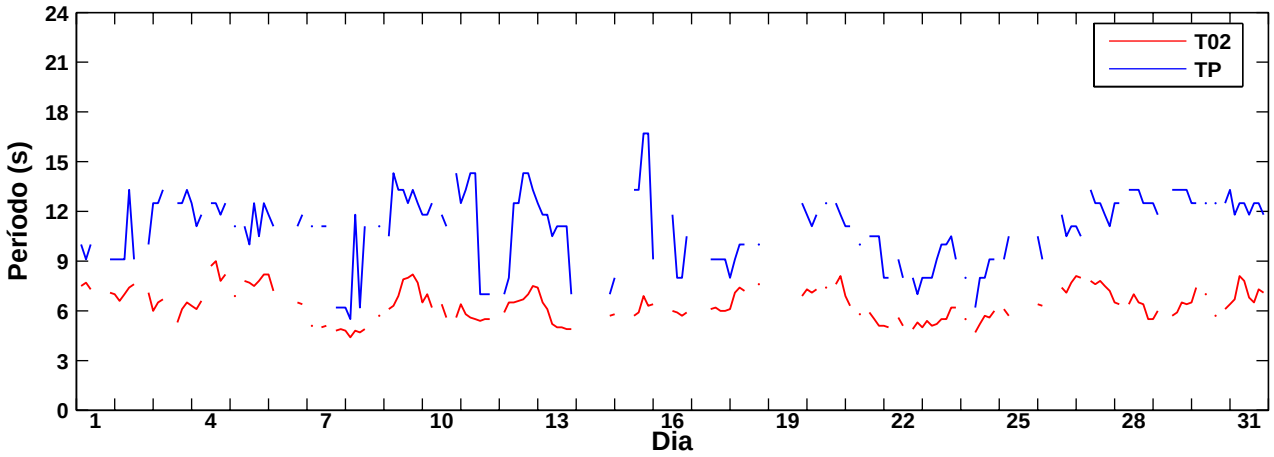
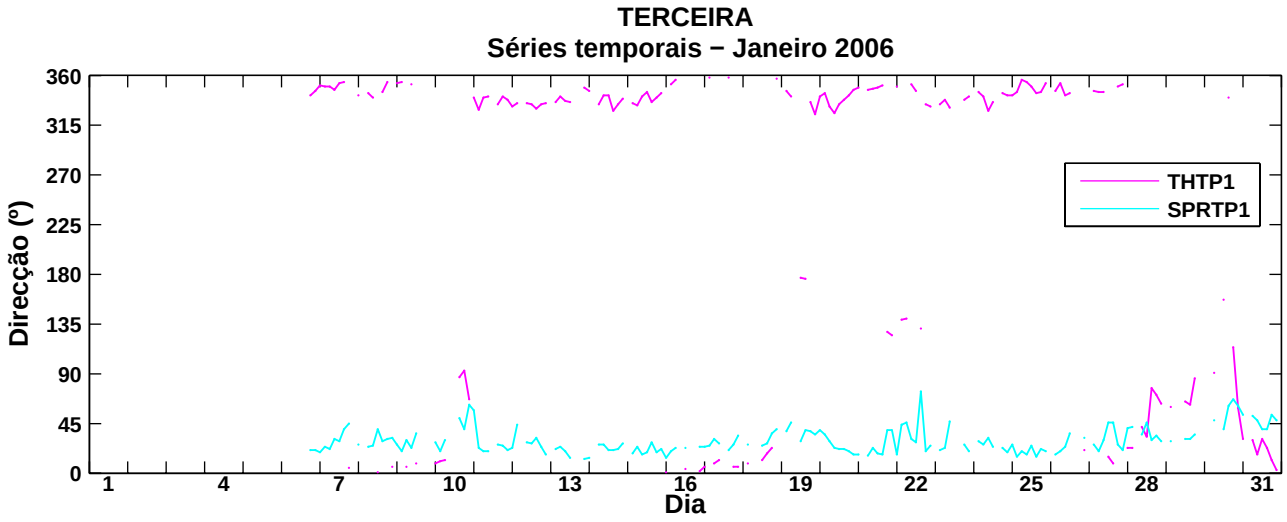
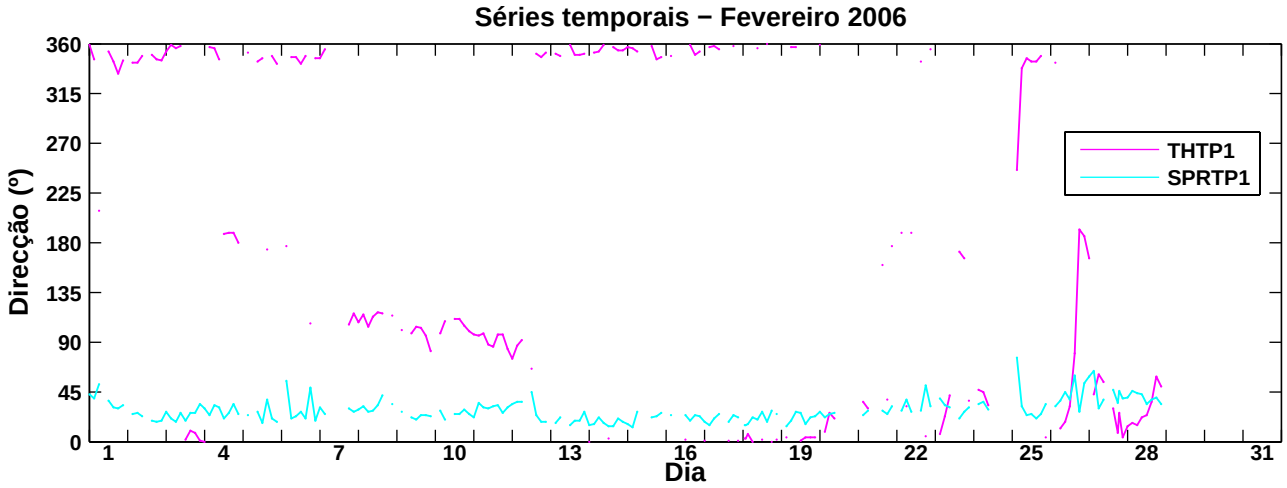
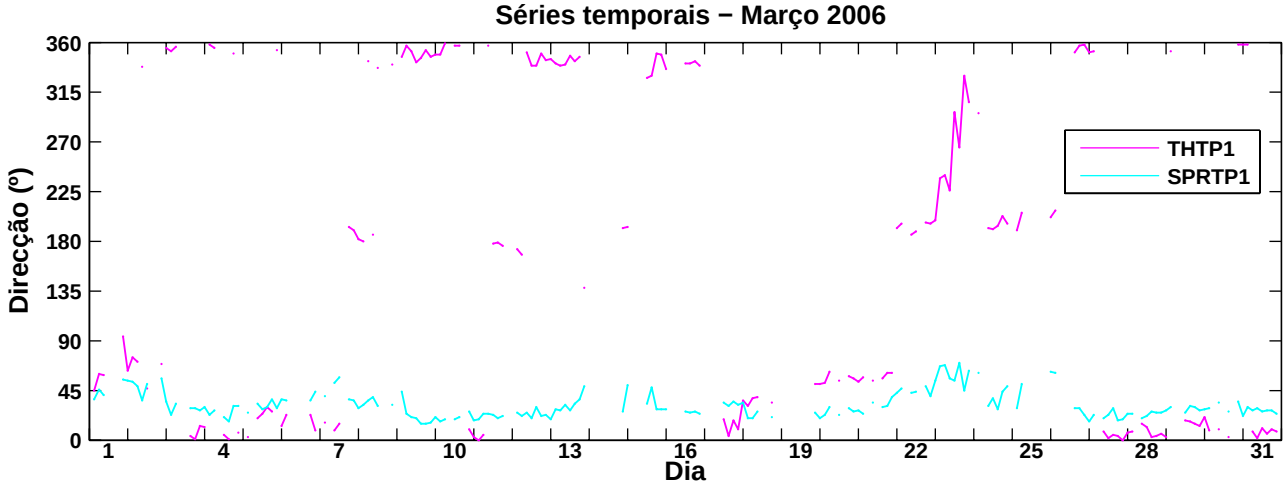


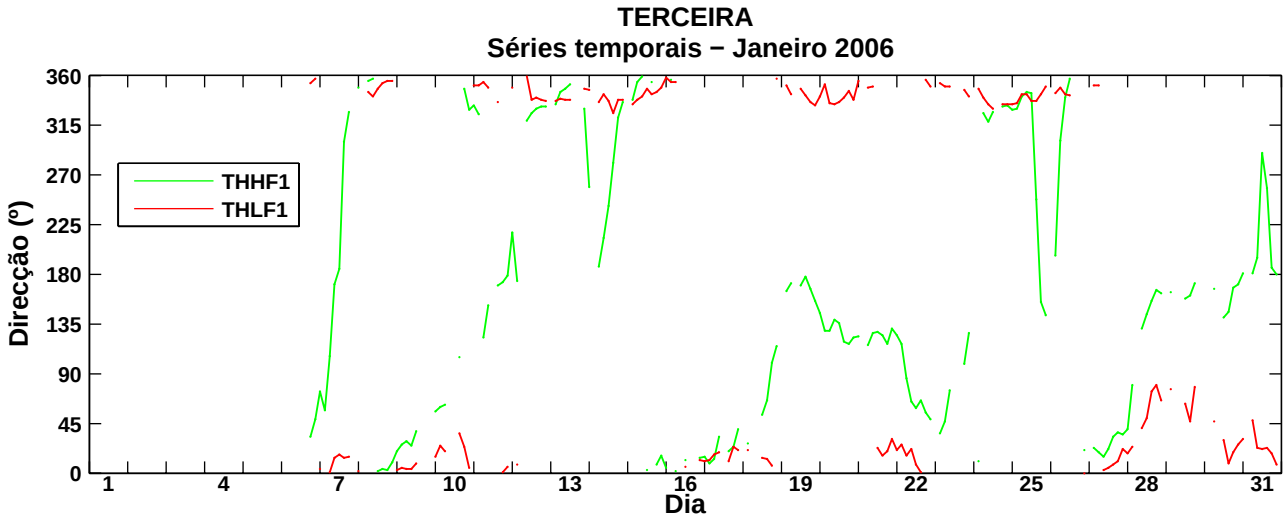
Séries temporais − Março 2006

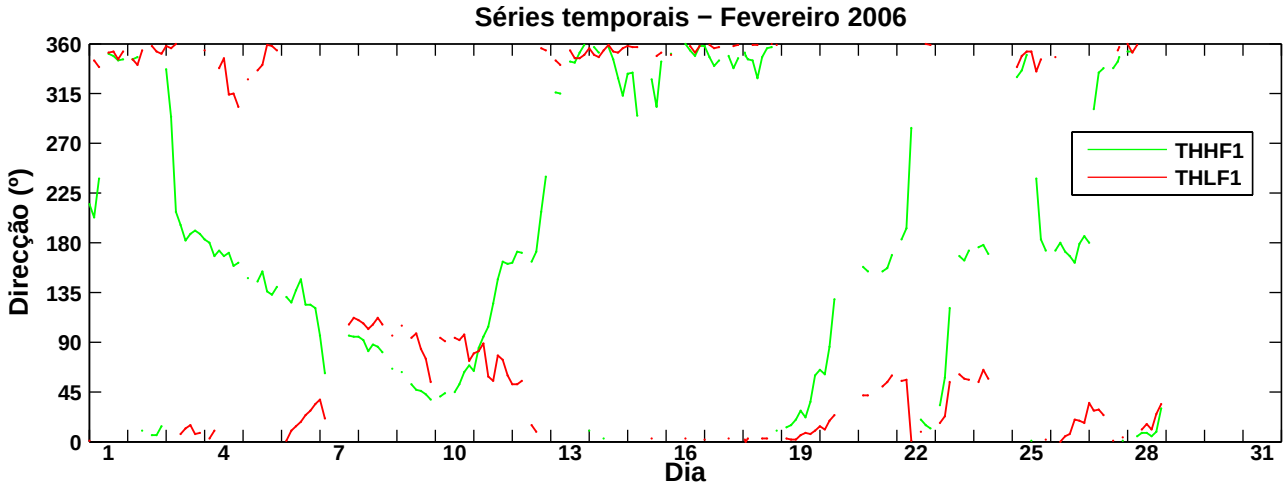


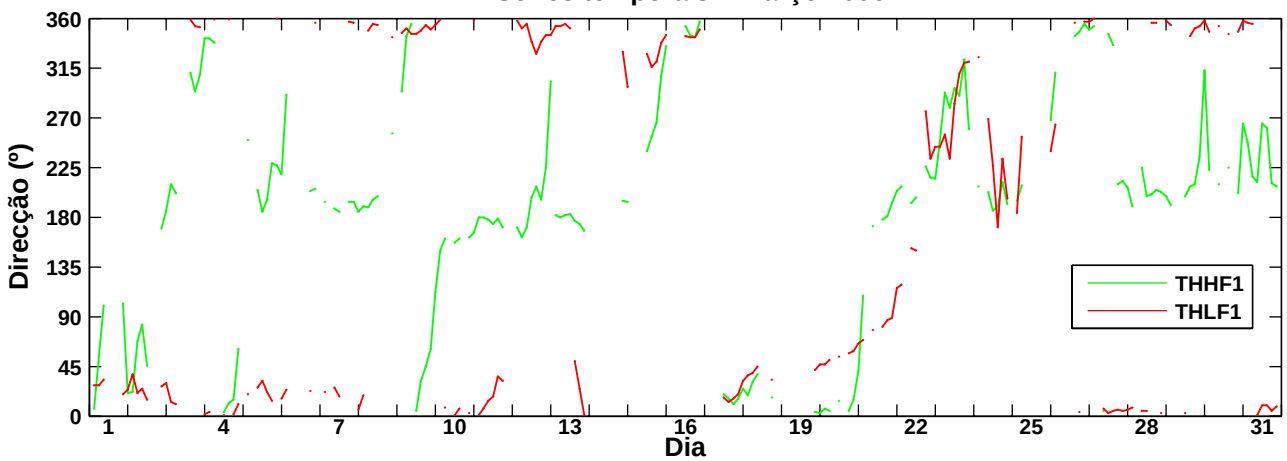

TERCEIRA
Séries temporais − Janeiro 2006
Direcção (º)
Dia
THTP1
SPRTP1


Séries temporais − Fevereiro 2006
Direcção (º)
Dia
THTP1
SPRTP1


Séries temporais − Março 2006
Direcção (º)
Dia
THTP1
SPRTP1


TERCEIRA
Séries temporais − Janeiro 2006
THHF1
THLF1
Direcção (º)
Dia
0
45
90
135
180
225
270
315
360
1
4
7
10
13
16
19
22
25
28
31


Séries temporais − Fevereiro 2006
THHF1
THLF1
Direcção (º)
Dia
0
45
90
135
180
225
270
315
360
1
4
7
10
13
16
19
22
25
28
31


Séries temporais − Março 2006
THHF1
THLF1
Direcção (º)
Dia
0
45
90
135
180
225
270
315
360
1
4
7
10
13
16
19
22
25
28
31

ANEXO F

Tabelas de ocorrências conjuntas HM0-T02, HM0-TP, HM0-THTP1 e TP-THTP1

TABELA DE OCORRENCIAS CONJUNTAS TERCEIRA JAN 2006

T02 / HM0	< 3	3 4	4 5	5 6	6 7	7 8	8 9	9 10	10 11	11 12	12 13	13 14	14 15	15 16	16 17	17 18	>18	SOMA	%	MED
0.0- 0.5																				
0.5- 1.0					1													1	0.6	6.5
1.0- 1.5			11	6	12	1												30	18.8	5.7
1.5- 2.0			1	11	28	6	1											47	29.4	6.4
2.0- 2.5				3	15	7												25	15.6	6.7
2.5- 3.0					8	9		2										19	11.9	7.3
3.0- 3.5					8	9	4	2										23	14.4	7.5
3.5- 4.0						2	7	4	1									14	8.8	8.7
4.0- 4.5						1												1	0.6	7.4
4.5- 5.0																				
5.0- 5.5																				
5.5- 6.0																				
6.0- 6.5																				
6.5- 7.0																				
7.0- 7.5																				
7.5- 8.0																				
8.0- 8.5																				
8.5- 9.0																				
9.0- 9.5																				
9.5-10.0																				
10.0-10.5																				
10.5-11.0																				
11.0-11.5																				
11.5-12.0																				
12.0-12.5																				
12.5-13.0																				
13.0-13.5																				
13.5-14.0																				
14.0-14.5																				
14.5-15.0																				
>15.0																				
SOMA			12	20	72	35	12	8	1									160	100	
%			7.5	12.5	45.0	21.9	7.5	5.0	0.6									100		
MED			1.4	1.7	2.0	2.7	3.4	3.4	3.7											

T02

MED 6.8 MIN 4.2 MAX 10.0

DES.PAD 1.1 ASSIM 0.35 CURT 3.30

HM0

MED 2.25 MIN 0.98 MAX 4.05

DES.PAD 0.81 ASSIM 0.48 CURT 2.02

TABELA DE OCORRENCIAS CONJUNTAS TERCEIRA FEV 2006

T02 / HM0	< 3	3 4	4 5	5 6	6 7	7 8	8 9	9 10	10 11	11 12	12 13	13 14	14 15	15 16	16 17	17 18	>18	SOMA	%	MED
0.0- 0.5																				
0.5- 1.0																				
1.0- 1.5			1	9	3													13	7.1	5.5
1.5- 2.0			6	25	18	6	1											56	30.8	6.0
2.0- 2.5				6	12	16	6	4										44	24.2	7.3
2.5- 3.0					14	4	3	4	2									27	14.8	7.5
3.0- 3.5					8	1	7	6	2									24	13.2	8.2
3.5- 4.0					4		4	2										10	5.5	8.1
4.0- 4.5							1	4	1									6	3.3	9.4
4.5- 5.0								1	1									2	1.1	9.6
5.0- 5.5																				
5.5- 6.0																				
6.0- 6.5																				
6.5- 7.0																				
7.0- 7.5																				
7.5- 8.0																				
8.0- 8.5																				
8.5- 9.0																				
9.0- 9.5																				
9.5-10.0																				
10.0-10.5																				
10.5-11.0																				
11.0-11.5																				
11.5-12.0																				
12.0-12.5																				
12.5-13.0																				
13.0-13.5																				
13.5-14.0																				
14.0-14.5																				
14.5-15.0																				
>15.0																				
SOMA			7	40	59	27	22	21	6									182	100	
%			3.8	22.0	32.4	14.8	12.1	11.5	3.3									100		
MED			1.7	1.7	2.4	2.2	3.0	3.2	3.5											

T02

MED 7.0 MIN 4.6 MAX 10.4

DES.PAD 1.5 ASSIM 0.50 CURT 2.19

HM0

MED 2.41 MIN 1.01 MAX 4.79

DES.PAD 0.76 ASSIM 0.76 CURT 3.05

T02 / HM0	< 3	3 4	4 5	5 6	6 7	7 8	8 9	9 10	10 11	11 12	12 13	13 14	14 15	15 16	16 17	17 18	>18	SOMA	%	MED
0.0- 0.5																				
0.5- 1.0																				
1.0- 1.5			7	4	5	1												17	9.9	5.5
1.5- 2.0			4	15	23	21	2											65	37.8	6.5
2.0- 2.5				26	24	12	5											67	39.0	6.4
2.5- 3.0				4	5	9	1											19	11.0	6.8
3.0- 3.5						1	2	1										4	2.3	8.3
3.5- 4.0																				
4.0- 4.5																				
4.5- 5.0																				
5.0- 5.5																				
5.5- 6.0																				
6.0- 6.5																				
6.5- 7.0																				
7.0- 7.5																				
7.5- 8.0																				
8.0- 8.5																				
8.5- 9.0																				
9.0- 9.5																				
9.5-10.0																				
10.0-10.5																				
10.5-11.0																				
11.0-11.5																				
11.5-12.0																				
12.0-12.5																				
12.5-13.0																				
13.0-13.5																				
13.5-14.0																				
14.0-14.5																				
14.5-15.0																				
>15.0																				
SOMA			11	49	57	44	10	1										172	100	
%			6.4	28.5	33.1	25.6	5.8	0.6										100		
MED			1.5	2.0	2.0	2.1	2.3	3.2												

T02

MED 6.4 MIN 4.4 MAX 9.0

DES.PAD 1.0 ASSIM 0.19 CURT 2.23

HM0

MED 2.02 MIN 1.08 MAX 3.21

DES.PAD 0.42 ASSIM 0.37 CURT 3.09

TABELA DE OCORRENCIAS CONJUNTAS TERCEIRA JAN 2006

TP / HM0	< 3	3 4	4 5	5 6	6 7	7 8	8 9	9 10	10 11	11 12	12 13	13 14	14 15	15 16	16 17	17 18	>18	SOMA	%	MED
0.0- 0.5																				
0.5- 1.0										1								1	0.6	11.1
1.0- 1.5				2		1	3	5	5	11	1	2						30	18.8	10.1
1.5- 2.0						1	2	6	14	20	2	1	1					47	29.4	10.6
2.0- 2.5					1		3	1	2	9	2	6	1					25	15.6	11.2
2.5- 3.0								1	1	2	1	3	3	5	2		1	19	11.9	14.0
3.0- 3.5							3	2	2	2		1	8	2	2		1	23	14.4	12.9
3.5- 4.0										1		2	4	2	4		1	14	8.8	15.1
4.0- 4.5										1								1	0.6	11.8
4.5- 5.0																				
5.0- 5.5																				
5.5- 6.0																				
6.0- 6.5																				
6.5- 7.0																				
7.0- 7.5																				
7.5- 8.0																				
8.0- 8.5																				
8.5- 9.0																				
9.0- 9.5																				
9.5-10.0																				
10.0-10.5																				
10.5-11.0																				
11.0-11.5																				
11.5-12.0																				
12.0-12.5																				
12.5-13.0																				
13.0-13.5																				
13.5-14.0																				
14.0-14.5																				
14.5-15.0																				
>15.0																				
SOMA				2	1	2	11	15	24	47	6	15	17	9	8		3	160	100	
%				1.2	0.6	1.2	6.9	9.4	15.0	29.4	3.8	9.4	10.6	5.6	5.0		1.9	100		
MED				1.5	2.2	1.4	2.2	1.9	1.8	1.9	1.9	2.4	3.2	3.1	3.3		3.3			

TP

MED 11.8 MIN 5.5 MAX 18.2

DES.PAD 2.6 ASSIM 0.25 CURT 2.80

HM0

MED 2.25 MIN 0.98 MAX 4.05

DES.PAD 0.81 ASSIM 0.48 CURT 2.02

TABELA DE OCORRENCIAS CONJUNTAS TERCEIRA FEV 2006

TP / HM0	< 3	3 4	4 5	5 6	6 7	7 8	8 9	9 10	10 11	11 12	12 13	13 14	14 15	15 16	16 17	17 18	>18	SOMA	%	MED
0.0- 0.5																				
0.5- 1.0																				
1.0- 1.5						1	4	7		1								13	7.1	8.8
1.5- 2.0				2	1	3	4	5	19	12	3	4		1	2			56	30.8	10.5
2.0- 2.5					2		2	2	15	6	3	6	6		2			44	24.2	11.5
2.5- 3.0							2	10	4	2	1	2	1	3	2			27	14.8	11.3
3.0- 3.5								1	7	2	3	3	1	6	1			24	13.2	12.7
3.5- 4.0								2	2			4	2					10	5.5	12.1
4.0- 4.5												3	2	1				6	3.3	14.0
4.5- 5.0											1	1						2	1.1	12.9
5.0- 5.5																				
5.5- 6.0																				
6.0- 6.5																				
6.5- 7.0																				
7.0- 7.5																				
7.5- 8.0																				
8.0- 8.5																				
8.5- 9.0																				
9.0- 9.5																				
9.5-10.0																				
10.0-10.5																				
10.5-11.0																				
11.0-11.5																				
11.5-12.0																				
12.0-12.5																				
12.5-13.0																				
13.0-13.5																				
13.5-14.0																				
14.0-14.5																				
14.5-15.0																				
>15.0																				
SOMA				2	3	4	12	27	47	23	11	23	12	11	7			182	100	
%				1.1	1.6	2.2	6.6	14.8	25.8	12.6	6.0	12.6	6.6	6.0	3.8			100		
MED				1.7	2.0	1.7	1.8	2.3	2.3	2.1	2.6	2.9	2.9	3.0	2.4					

TP

MED 11.3 MIN 5.5 MAX 16.7

DES.PAD 2.5 ASSIM 0.23 CURT 2.53

HM0

MED 2.41 MIN 1.01 MAX 4.79

DES.PAD 0.76 ASSIM 0.76 CURT 3.05

TABELA DE OCORRENCIAS CONJUNTAS TERCEIRA MAR 2006

TP / HM0	< 3	3 4	4 5	5 6	6 7	7 8	8 9	9 10	10 11	11 12	12 13	13 14	14 15	15 16	16 17	17 18	>18	SOMA	%	MED
0.0- 0.5																				
0.5- 1.0																				
1.0- 1.5				1	3	1		1	2	7		1	1					17	9.9	9.9
1.5- 2.0					2	1	4	6	8	18	16	7	3					65	37.8	11.2
2.0- 2.5						3	9	8	7	9	16	11	2		2			67	39.0	11.2
2.5- 3.0						2	2	4	5	4	2							19	11.0	9.9
3.0- 3.5										2	2							4	2.3	12.0
3.5- 4.0																				
4.0- 4.5																				
4.5- 5.0																				
5.0- 5.5																				
5.5- 6.0																				
6.0- 6.5																				
6.5- 7.0																				
7.0- 7.5																				
7.5- 8.0																				
8.0- 8.5																				
8.5- 9.0																				
9.0- 9.5																				
9.5-10.0																				
10.0-10.5																				
10.5-11.0																				
11.0-11.5																				
11.5-12.0																				
12.0-12.5																				
12.5-13.0																				
13.0-13.5																				
13.5-14.0																				
14.0-14.5																				
14.5-15.0																				
>15.0																				
SOMA				1	5	7	15	19	22	40	36	19	6		2			172	100	
%				0.6	2.9	4.1	8.7	11.0	12.8	23.3	20.9	11.0	3.5		1.2			100		
MED				1.3	1.5	2.1	2.1	2.2	2.0	2.0	2.1	2.0	1.8		2.3					

TP

MED 11.0 MIN 5.5 MAX 16.7

DES.PAD 2.2 ASSIM -0.38 CURT 2.73

HM0

MED 2.02 MIN 1.08 MAX 3.21

DES.PAD 0.42 ASSIM 0.37 CURT 3.09

TABELA DE OCORRENCIAS CONJUNTAS TERCEIRA JAN 2006

THTP1 / HM0	0 30	30 60	60 90	90 120	120 150	150 180	180 210	210 240	240 270	270 300	300 330	330 360	SOMA	%	MED
.0- .5															
.5- 1.0												1	1	.6	347
1.0- 1.5	8	2	3	1		2					2	12	30	18.8	8
1.5- 2.0	9	3	4	1	2	1					2	25	47	29.4	1
2.0- 2.5	3	1	2	1	3						1	14	25	15.6	4
2.5- 3.0	5											14	19	11.9	351
3.0- 3.5	3											20	23	14.4	347
3.5- 4.0	1											13	14	8.8	347
4.0- 4.5												1	1	.6	353
4.5- 5.0															
5.0- 5.5															
5.5- 6.0															
6.0- 6.5															
6.5- 7.0															
7.0- 7.5															
7.5- 8.0															
8.0- 8.5															
8.5- 9.0															
9.0- 9.5															
9.5-10.0															
10.0-10.5															
10.5-11.0															
11.0-11.5															
11.5-12.0															
12.0-12.5															
12.5-13.0															
13.0-13.5															
13.5-14.0															
14.0-14.5															
14.5-15.0															
>15.0															
SOMA	29	6	9	3	5	3					5	100	160	100	
%	18.1	3.8	5.6	1.9	3.1	1.9					3.1	62.5	100		
MED	2.0	1.6	1.7	1.6	2.1	1.6					1.8	2.5			

THTP1				HM0			
MED 357	MIN 1	MAX 358		MED 2.25	MIN .98	MAX 4.05	
DES.PAD .66	ASSIM -2.33	CURT 6.65		DES.PAD .81	ASSIM .48	CURT 2.02	

TABELA DE OCORRENCIAS CONJUNTAS TERCEIRA FEV 2006

THTP1 / HM0	0 30	30 60	60 90	90 120	120 150	150 180	180 210	210 240	240 270	270 300	300 330	330 360	SOMA	%	MED
.0- .5															
.5- 1.0															
1.0- 1.5	3	1	5	1			1		1			1	13	7.1	53
1.5- 2.0	6	9	2	5		4	4					26	56	30.8	14
2.0- 2.5	7	3	1	5		3	2					23	44	24.2	13
2.5- 3.0	6	2	1	10			2					6	27	14.8	54
3.0- 3.5	8	1		3								12	24	13.2	9
3.5- 4.0	3			3								4	10	5.5	28
4.0- 4.5	6												6	3.3	3
4.5- 5.0	1											1	2	1.1	2
5.0- 5.5															
5.5- 6.0															
6.0- 6.5															
6.5- 7.0															
7.0- 7.5															
7.5- 8.0															
8.0- 8.5															
8.5- 9.0															
9.0- 9.5															
9.5-10.0															
10.0-10.5															
10.5-11.0															
11.0-11.5															
11.5-12.0															
12.0-12.5															
12.5-13.0															
13.0-13.5															
13.5-14.0															
14.0-14.5															
14.5-15.0															
>15.0															
SOMA	40	16	9	27		7	9		1			73	182	100	
%	22.0	8.8	4.9	14.8		3.8	4.9		.5			40.1	100		
MED	2.9	2.0	1.8	2.6		2.0	2.0		1.4			2.4			

THTP1				HM0			
MED 20	MIN 0	MAX 359		MED 2.41	MIN 1.01	MAX 4.79	
DES.PAD 1.02	ASSIM -1.34	CURT 1.44		DES.PAD .76	ASSIM .76	CURT 3.05	

TABELA DE OCORRENCIAS CONJUNTAS TERCEIRA MAR 2006

THTP1 / HM0	0 30	30 60	60 90	90 120	120 150	150 180	180 210	210 240	240 270	270 300	300 330	330 360	SOMA	%	MED
.0- .5															
.5- 1.0															
1.0- 1.5	4		2		1		4					6	17	9.9	18
1.5- 2.0	17	7	5	1		1	6				1	27	65	37.8	9
2.0- 2.5	27	5				3	11	2	2	2	1	14	67	39.0	352
2.5- 3.0	3	6	1			1	2					6	19	11.0	19
3.0- 3.5	2	1										1	4	2.3	11
3.5- 4.0															
4.0- 4.5															
4.5- 5.0															
5.0- 5.5															
5.5- 6.0															
6.0- 6.5															
6.5- 7.0															
7.0- 7.5															
7.5- 8.0															
8.0- 8.5															
8.5- 9.0															
9.0- 9.5															
9.5-10.0															
10.0-10.5															
10.5-11.0															
11.0-11.5															
11.5-12.0															
12.0-12.5															
12.5-13.0															
13.0-13.5															
13.5-14.0															
14.0-14.5															
14.5-15.0															
>15.0															
SOMA	53	19	8	1	1	5	23	2	2	2	2	54	172	100	
%	30.8	11.0	4.7	.6	.6	2.9	13.4	1.2	1.2	1.2	1.2	31.4	100		
MED	2.1	2.2	1.7	1.8	1.5	2.2	2.0	2.1	2.1	2.1	2.0	2.0			

THTP1				HM0			
MED	6	MIN 0	MAX 359	MED	2.02	MIN 1.08	MAX 3.21
DES.PAD	1.11	ASSIM .11	CURT 2.74	DES.PAD	.42	ASSIM .37	CURT 3.09

TABELA DE OCORRENCIAS CONJUNTAS TERCEIRA JAN 2006

THTP1 / TP	0 30	30 60	60 90	90 120	120 150	150 180	180 210	210 240	240 270	270 300	300 330	330 360	SOMA	%	MED
.0- 1.0															
1.0- 2.0															
2.0- 3.0															
3.0- 4.0															
4.0- 5.0															
5.0- 6.0						2							2	1.3	177
6.0- 7.0												1	1	.6	342
7.0- 8.0				1		1							2	1.3	125
8.0- 9.0		1	2		5							3	11	6.9	83
9.0-10.0	8	2	1	1								3	15	9.4	20
10.0-11.0	12	1	3	1								7	24	15.0	11
11.0-12.0	6	2	3								3	33	47	29.4	352
12.0-13.0	2											4	6	3.8	352
13.0-14.0											2	13	15	9.4	342
14.0-15.0	1											16	17	10.6	342
15.0-16.0												9	9	5.6	347
16.0-17.0												8	8	5.0	344
17.0-18.0															
>18.0												3	3	1.9	350
SOMA	29	6	9	3	5	3					5	100	160	100	
%	18.1	3.8	5.6	1.9	3.1	1.9					3.1	62.5	100		
MED	10.5	9.8	9.9	8.7	8.0	6.0					12.1	12.8			

THTP1				TP			
MED 357	MIN 1	MAX 358		MED 11.8	MIN 5.5	MAX 18.2	
DES.PAD .66	ASSIM -2.33	CURT 6.65		DES.PAD 2.60	ASSIM .25	CURT 2.80	

TABELA DE OCORRENCIAS CONJUNTAS TERCEIRA FEV 2006

THTP1 / TP	0 30	30 60	60 90	90 120	120 150	150 180	180 210	210 240	240 270	270 300	300 330	330 360	SOMA	%	MED
.0- 1.0															
1.0- 2.0															
2.0- 3.0															
3.0- 4.0															
4.0- 5.0															
5.0- 6.0						1	1						2	1.1	176
6.0- 7.0						3							3	1.6	172
7.0- 8.0	1						3						4	2.2	189
8.0- 9.0	1		1	2		3	4		1				12	6.6	163
9.0-10.0	3	1	7	12			1					3	27	14.8	79
10.0-11.0	8	10		13								16	47	25.8	34
11.0-12.0	6	5	1									11	23	12.6	7
12.0-13.0	3											8	11	6.0	357
13.0-14.0	11											12	23	12.6	359
14.0-15.0	4											8	12	6.6	356
15.0-16.0	3											8	11	6.0	356
16.0-17.0												7	7	3.8	351
17.0-18.0															
>18.0															
SOMA	40	16	9	27		7	9		1			73	182	100	
%	22.0	8.8	4.9	14.8		3.8	4.9		.5			40.1	100		
MED	12.0	10.6	9.3	9.5		6.9	7.5		8.0			12.8			

THTP1			TP		
MED 20	MIN 0	MAX 359	MED 11.3	MIN 5.5	MAX 16.7
DES.PAD 1.02	ASSIM -1.34	CURT 1.44	DES.PAD 2.51	ASSIM .23	CURT 2.53

TABELA DE OCORRENCIAS CONJUNTAS TERCEIRA MAR 2006

THTP1 / TP	0 30	30 60	60 90	90 120	120 150	150 180	180 210	210 240	240 270	270 300	300 330	330 360	SOMA	%	MED
.0- 1.0															
1.0- 2.0															
2.0- 3.0															
3.0- 4.0															
4.0- 5.0															
5.0- 6.0							1						1	.6	180
6.0- 7.0							5						5	2.9	189
7.0- 8.0					1	4	2						7	4.1	176
8.0- 9.0		1				1	8	1	1	1		2	15	8.7	213
9.0-10.0	4	2	4	1			5	1			1	1	19	11.0	49
10.0-11.0	2	7	3				2		1	1		6	22	12.8	19
11.0-12.0	13	5	1									21	40	23.3	5
12.0-13.0	22	4										10	36	20.9	6
13.0-14.0	10										1	8	19	11.0	359
14.0-15.0	2											4	6	3.5	356
15.0-16.0															
16.0-17.0												2	2	1.2	350
17.0-18.0															
>18.0															
SOMA	53	19	8	1	1	5	23	2	2	2	2	54	172	100	
%	30.8	11.0	4.7	.6	.6	2.9	13.4	1.2	1.2	1.2	1.2	31.4	100		
MED	12.1	10.7	9.9	9.1	7.0	7.2	7.9	8.6	9.0	9.0	11.2	12.1			

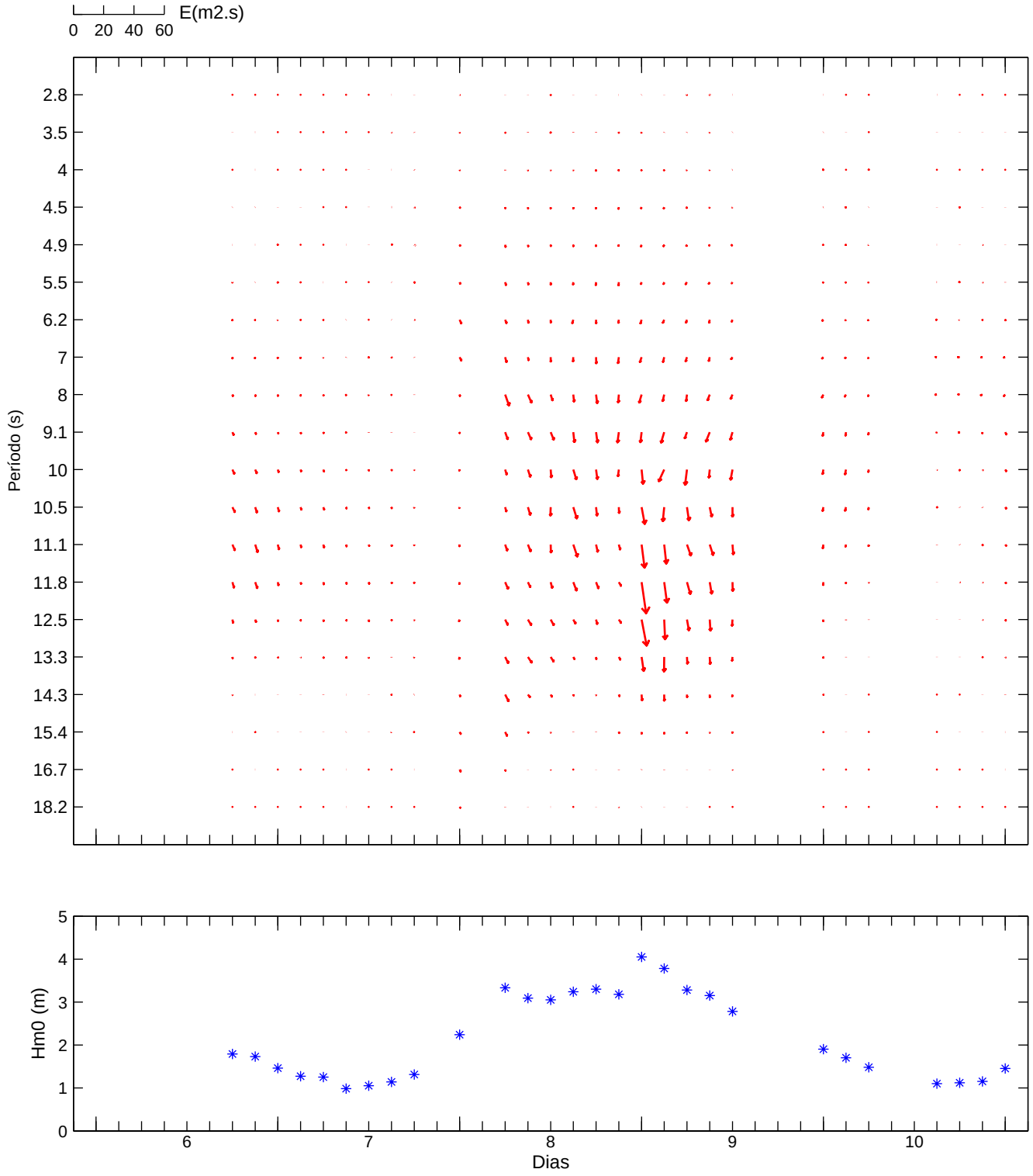
THTP1				TP			
MED	6	MIN	0	MAX	359	MED	11.0	MIN	5.5	MAX	16.7
DES.PAD	1.11	ASSIM	.11	CURT	2.74	DES.PAD	2.16	ASSIM	-.38	CURT	2.73

ANEXO G

Evolução temporal da distribuição de energia e da direcção média por banda de frequência

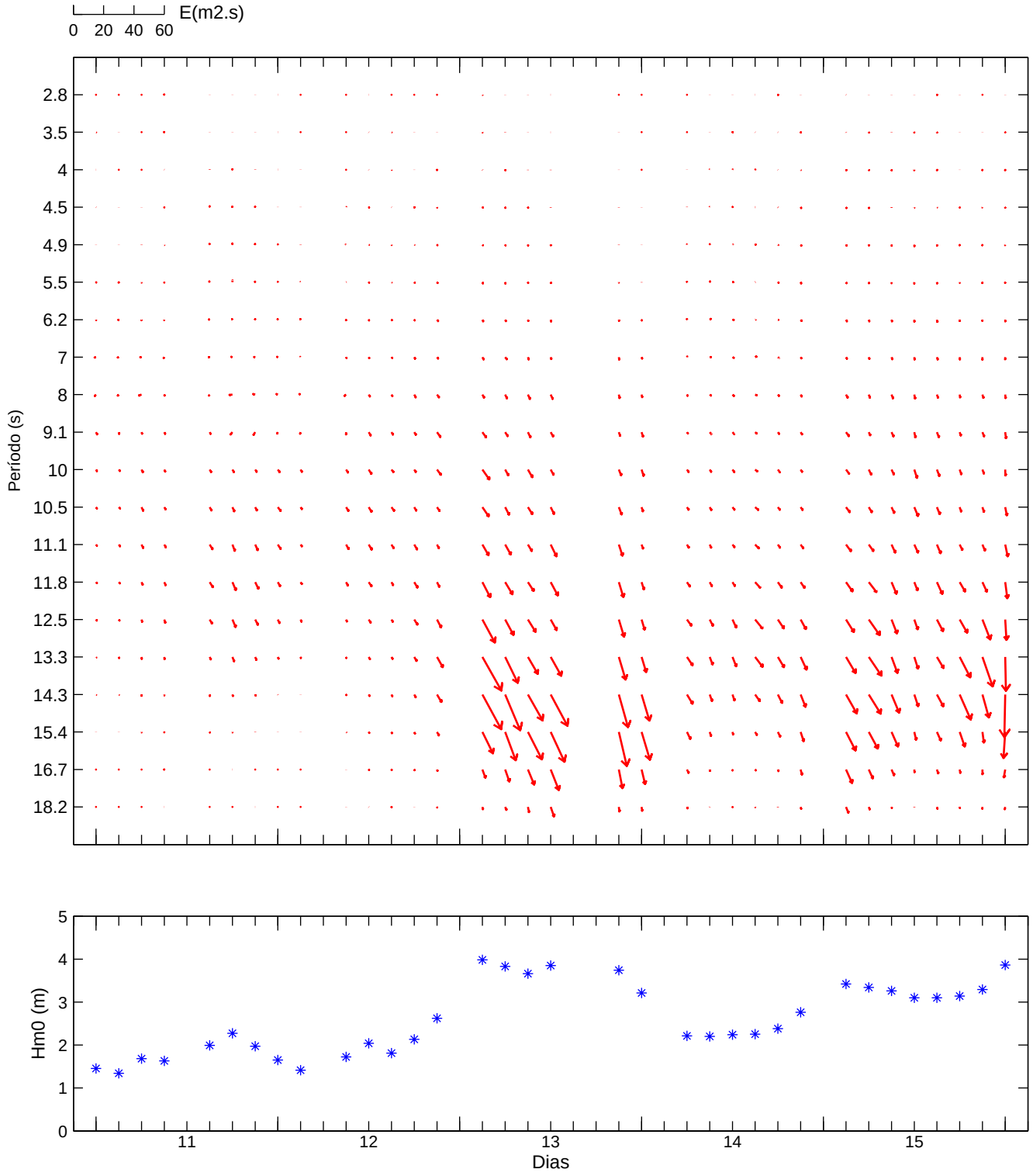
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − TERCEIRA 2006 JAN 6−10



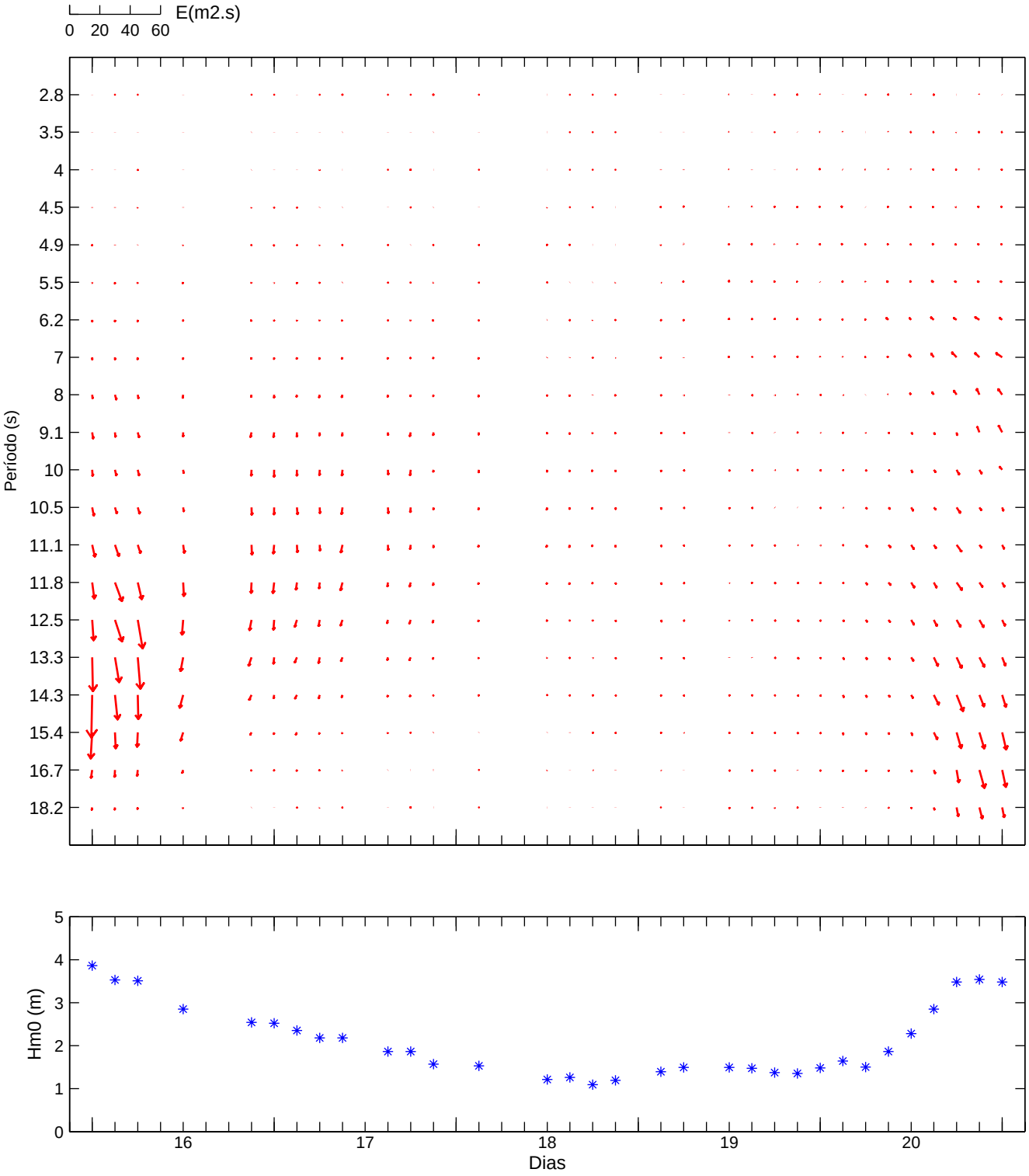
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − TERCEIRA 2006 JAN 11−15



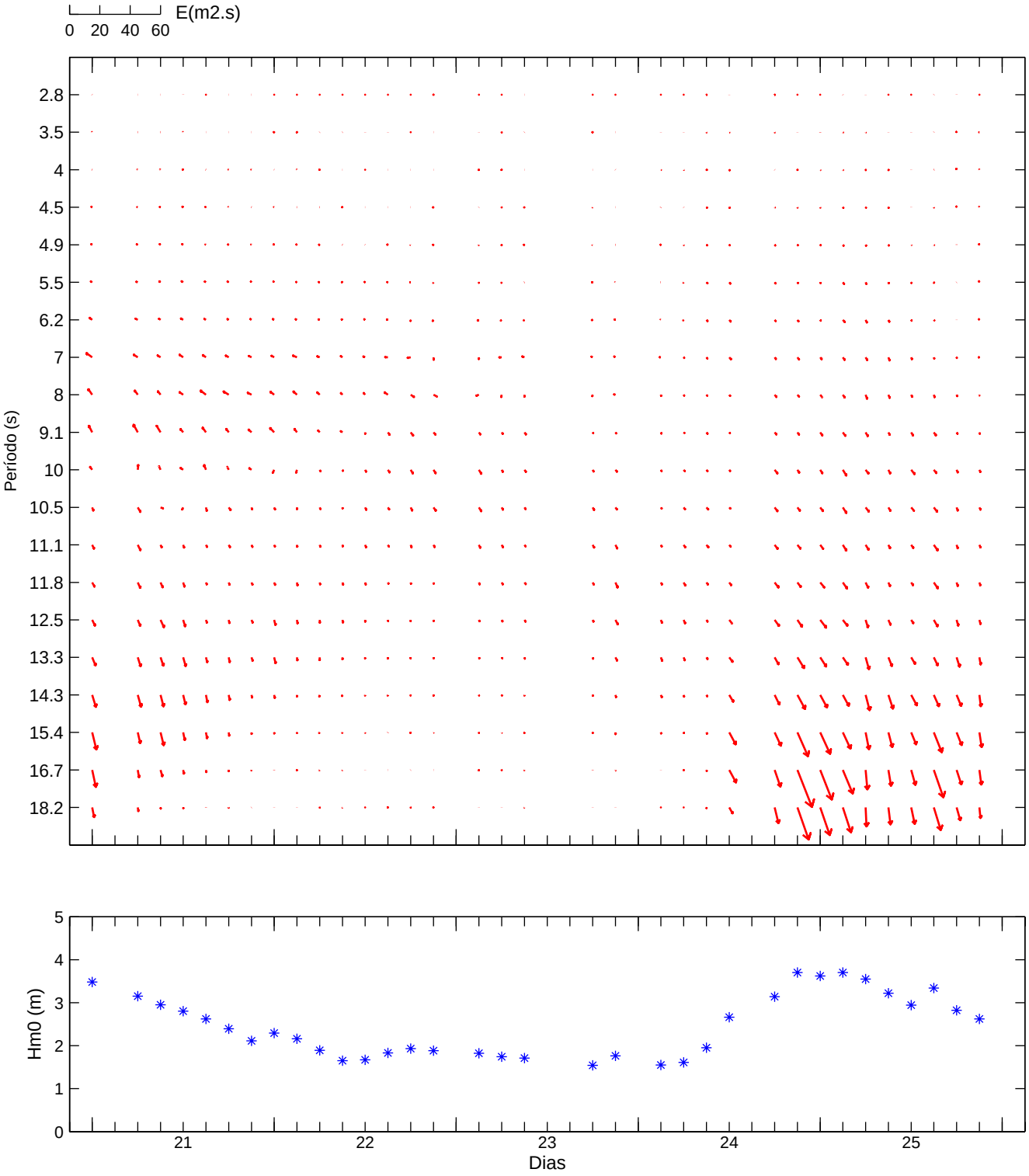
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − TERCEIRA 2006 JAN 16−20



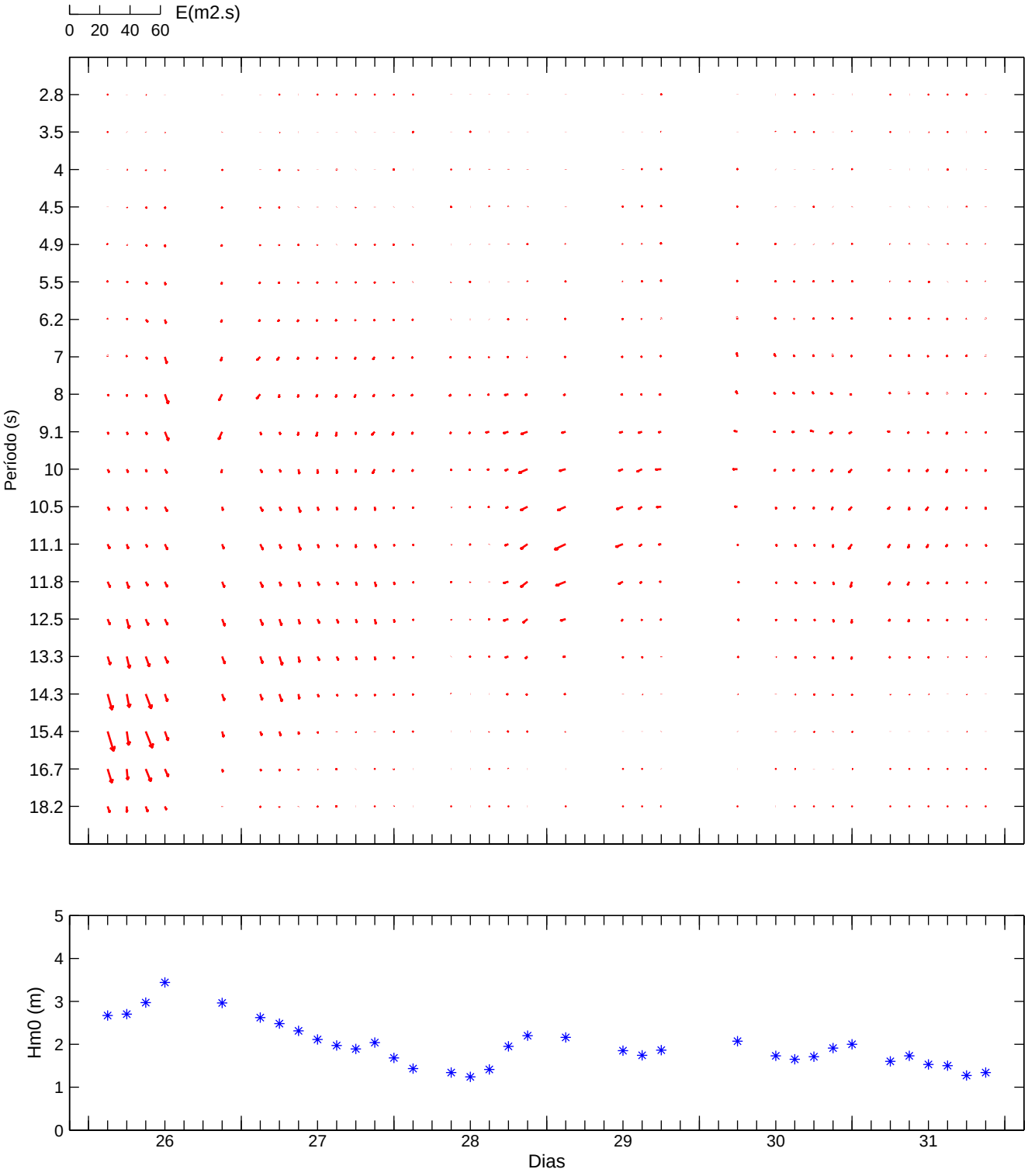
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − TERCEIRA 2006 JAN 21−25



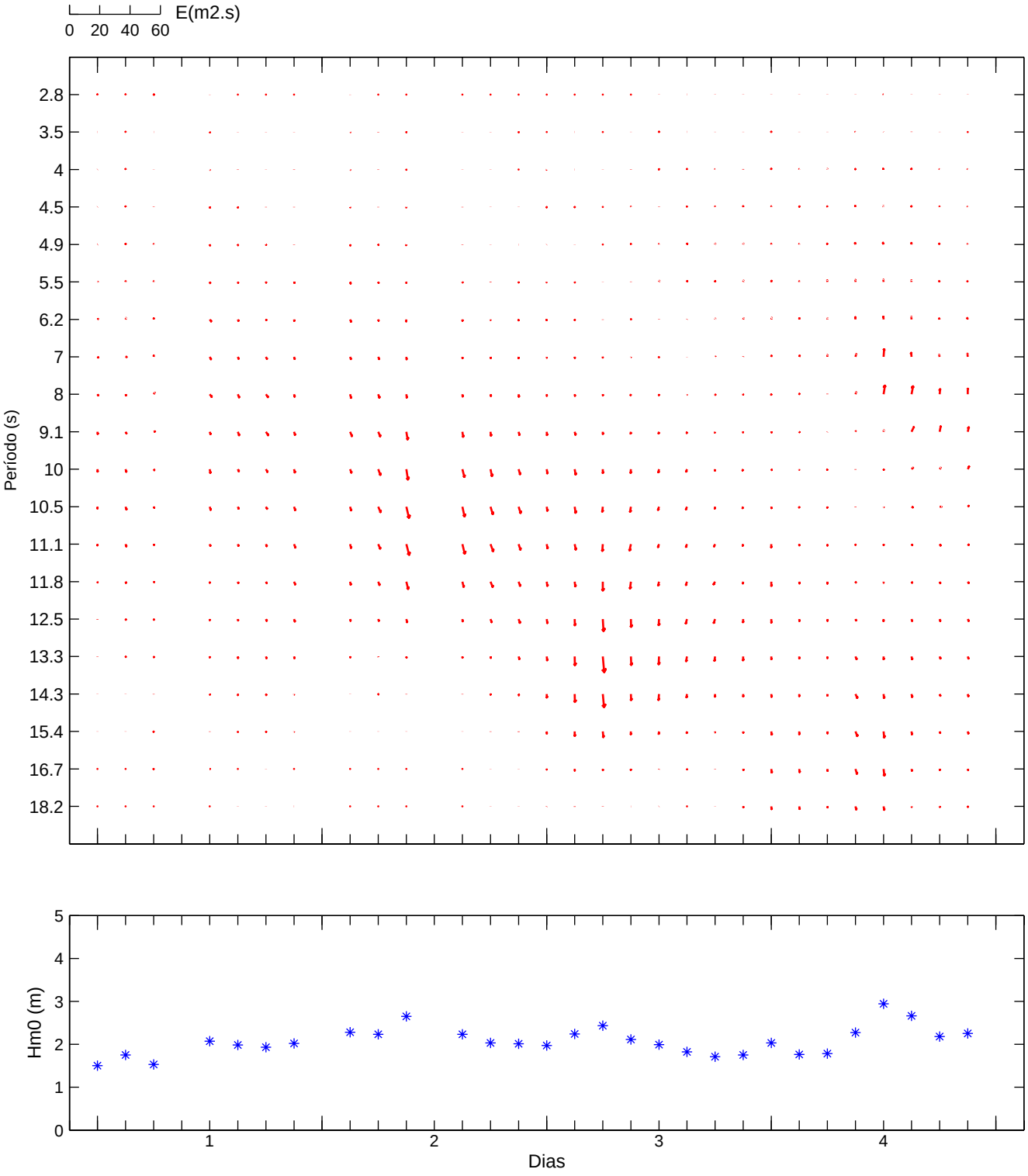
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − TERCEIRA 2006 JAN 26−31



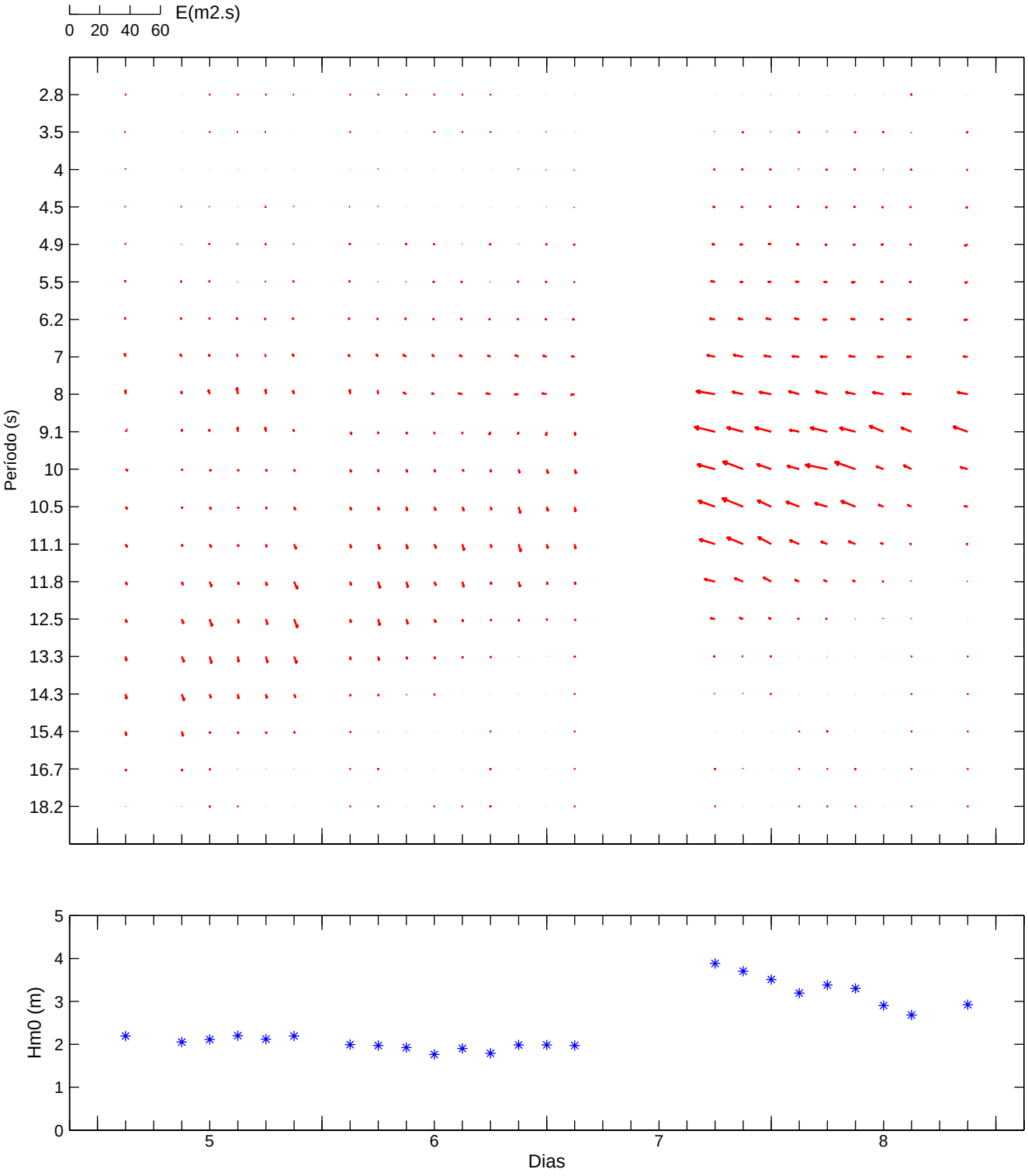
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − TERCEIRA 2006 FEV 1−4



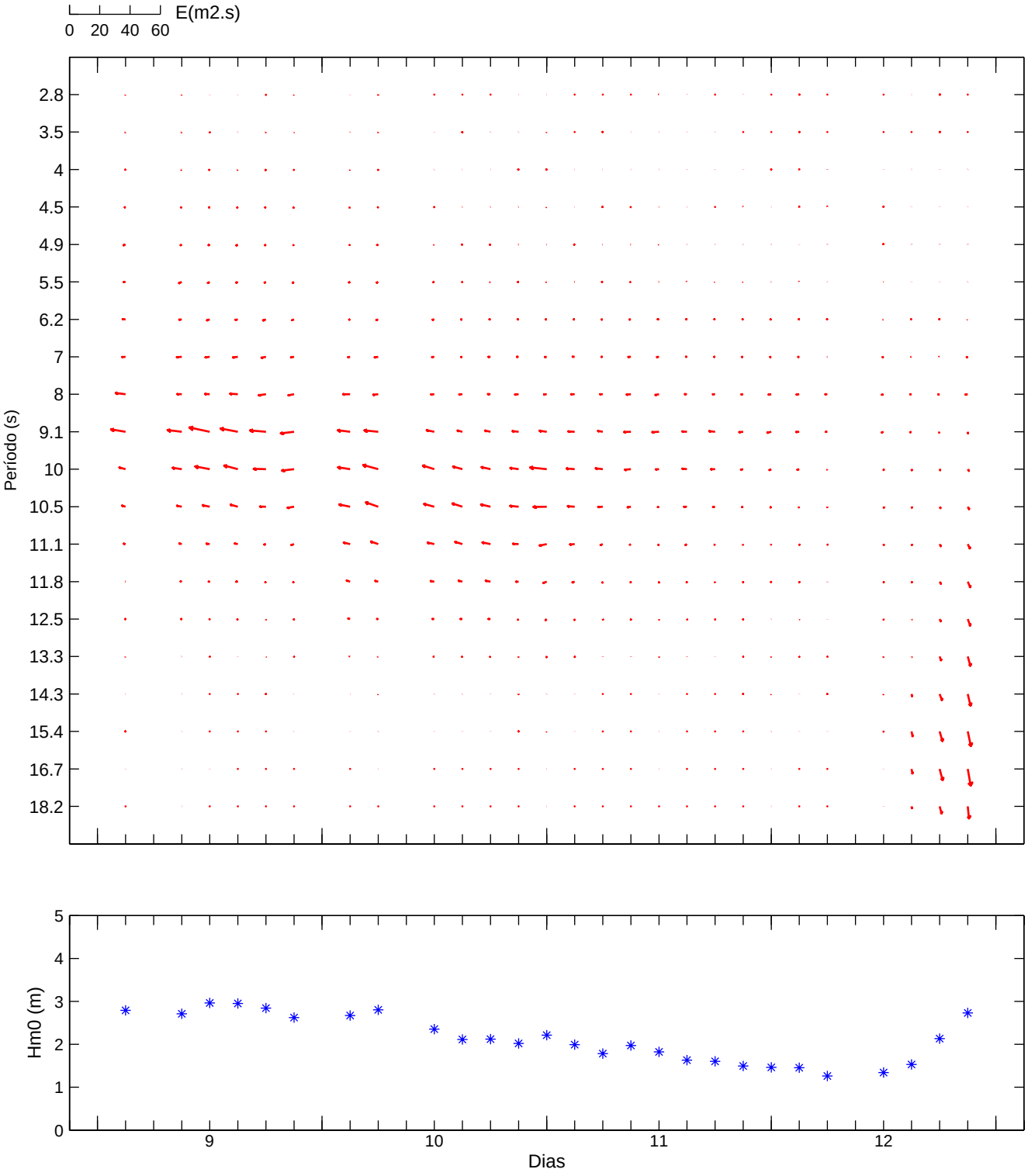
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − TERCEIRA 2006 FEV 5−8



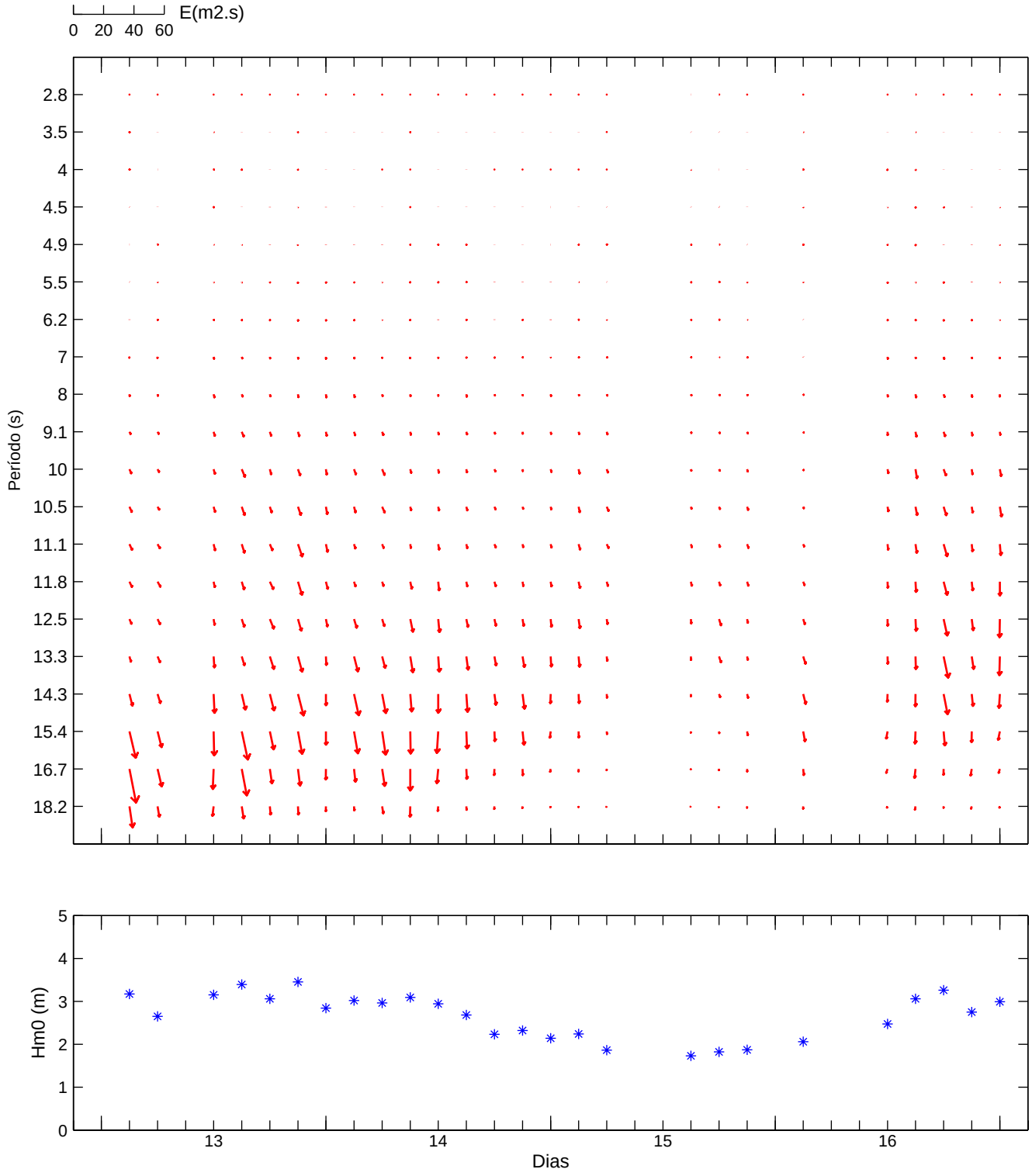
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − TERCEIRA 2006 FEV 9−12



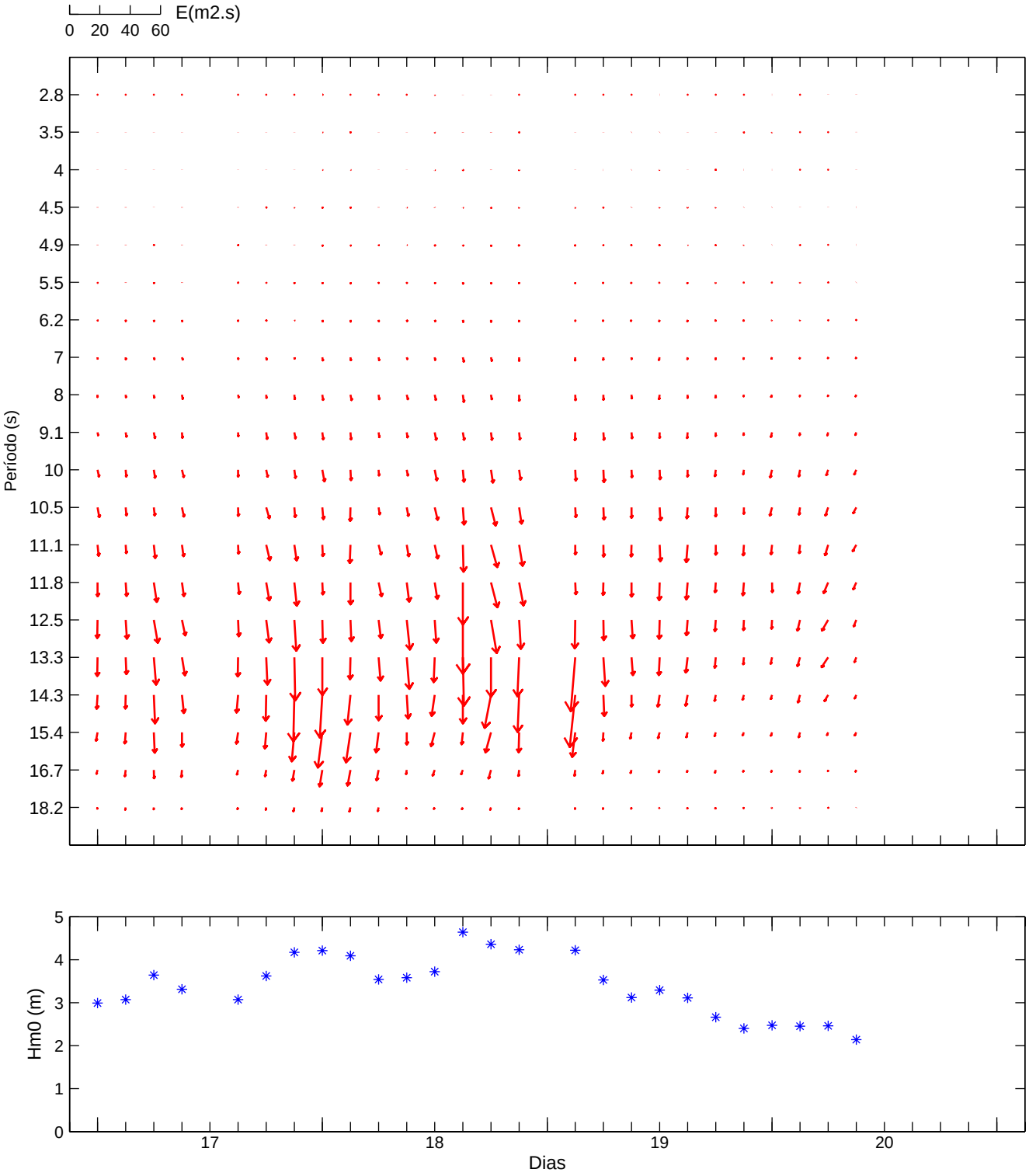
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − TERCEIRA 2006 FEV 13−16



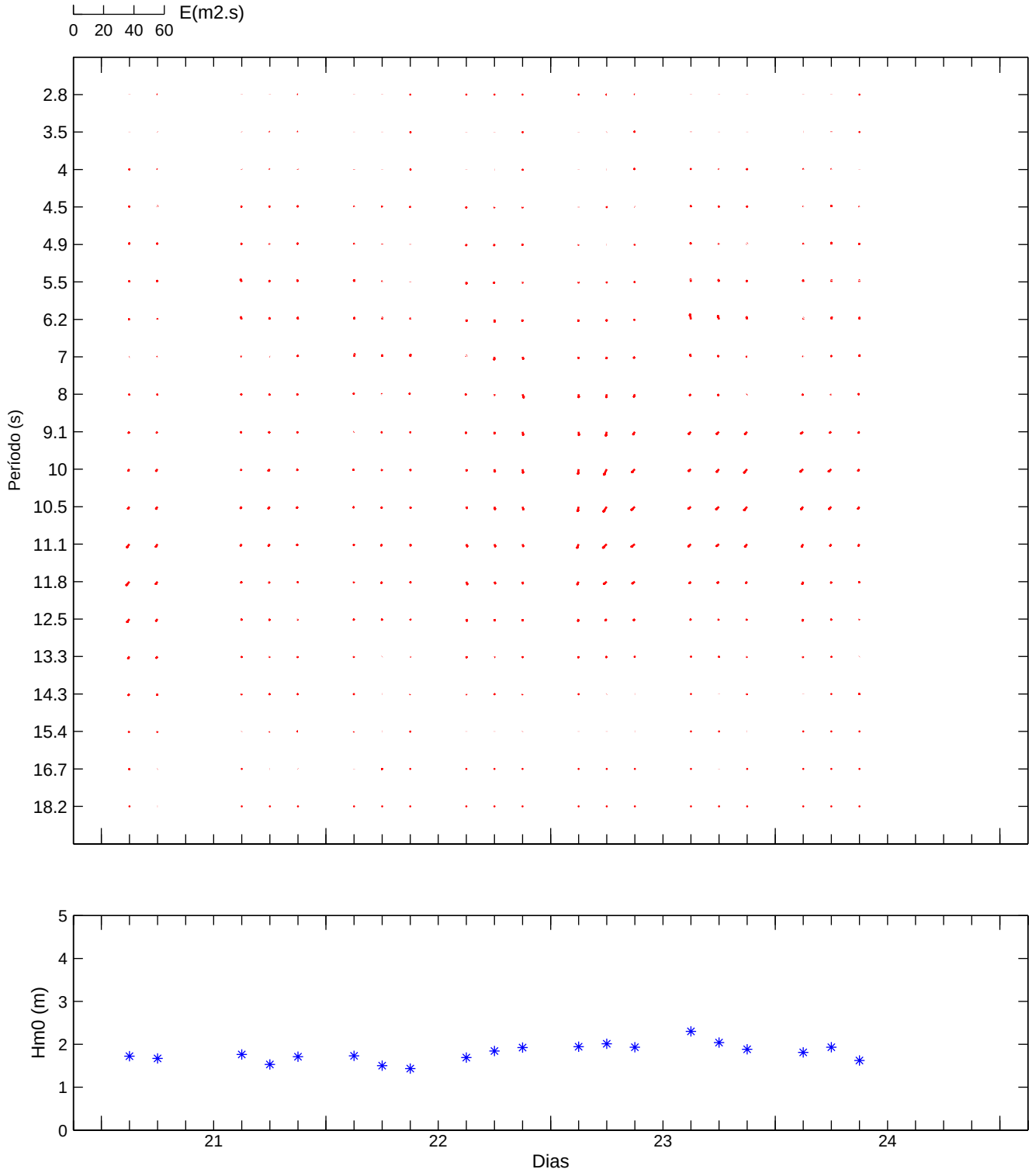
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − TERCEIRA 2006 FEV 17−20



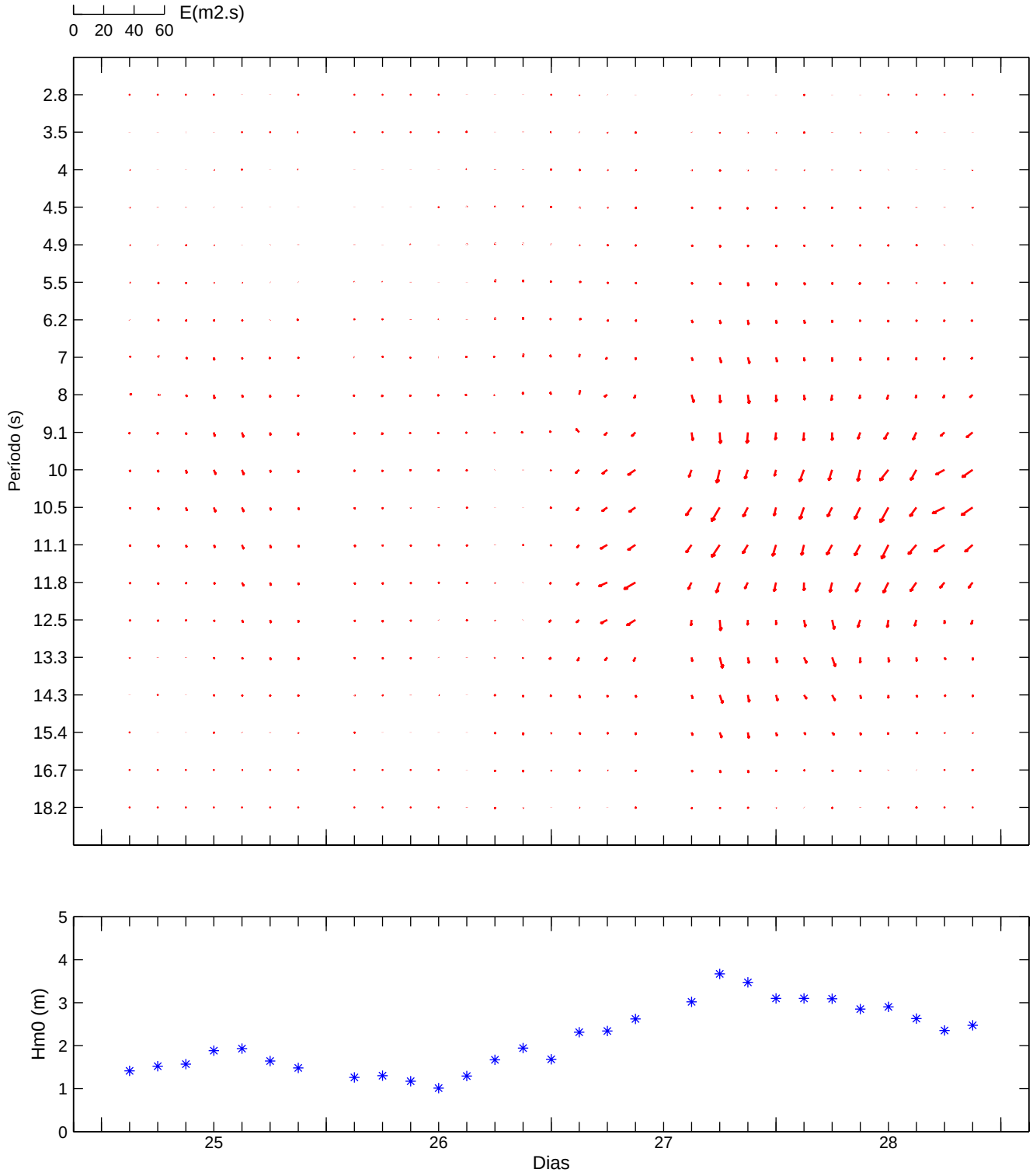
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − TERCEIRA 2006 FEV 21−24



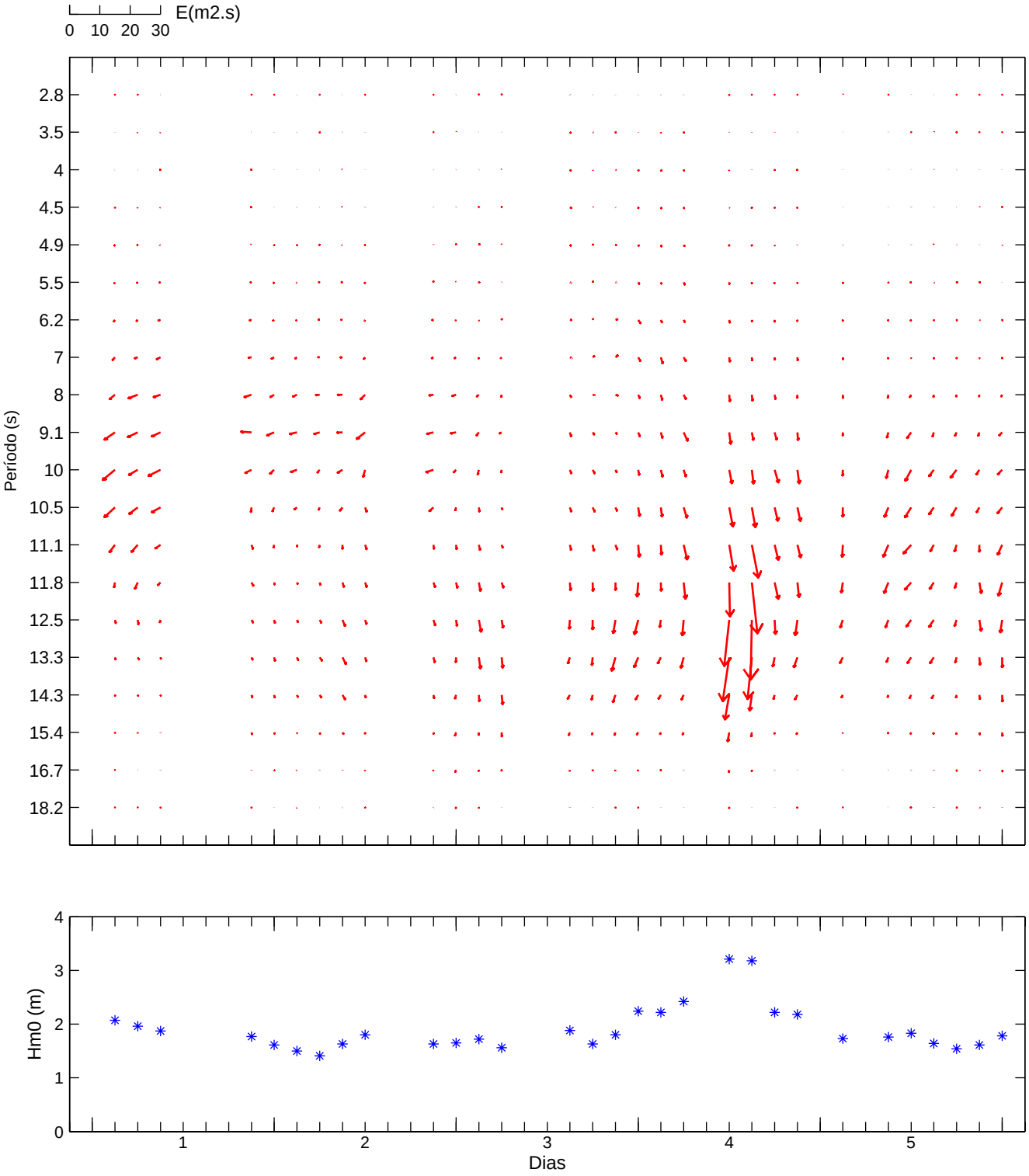
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − TERCEIRA 2006 FEV 25−28



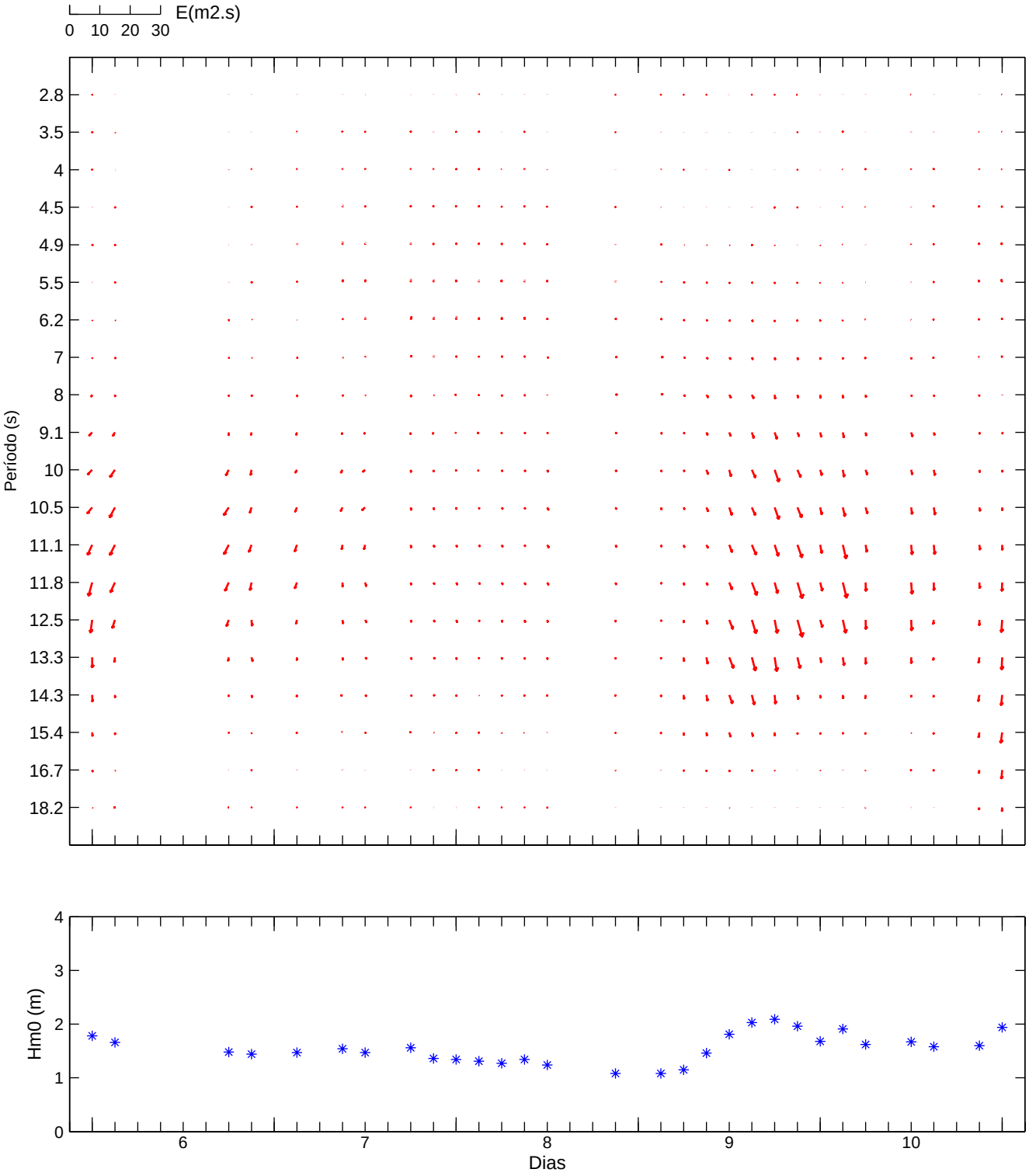
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − TERCEIRA 2006 MAR 1−5



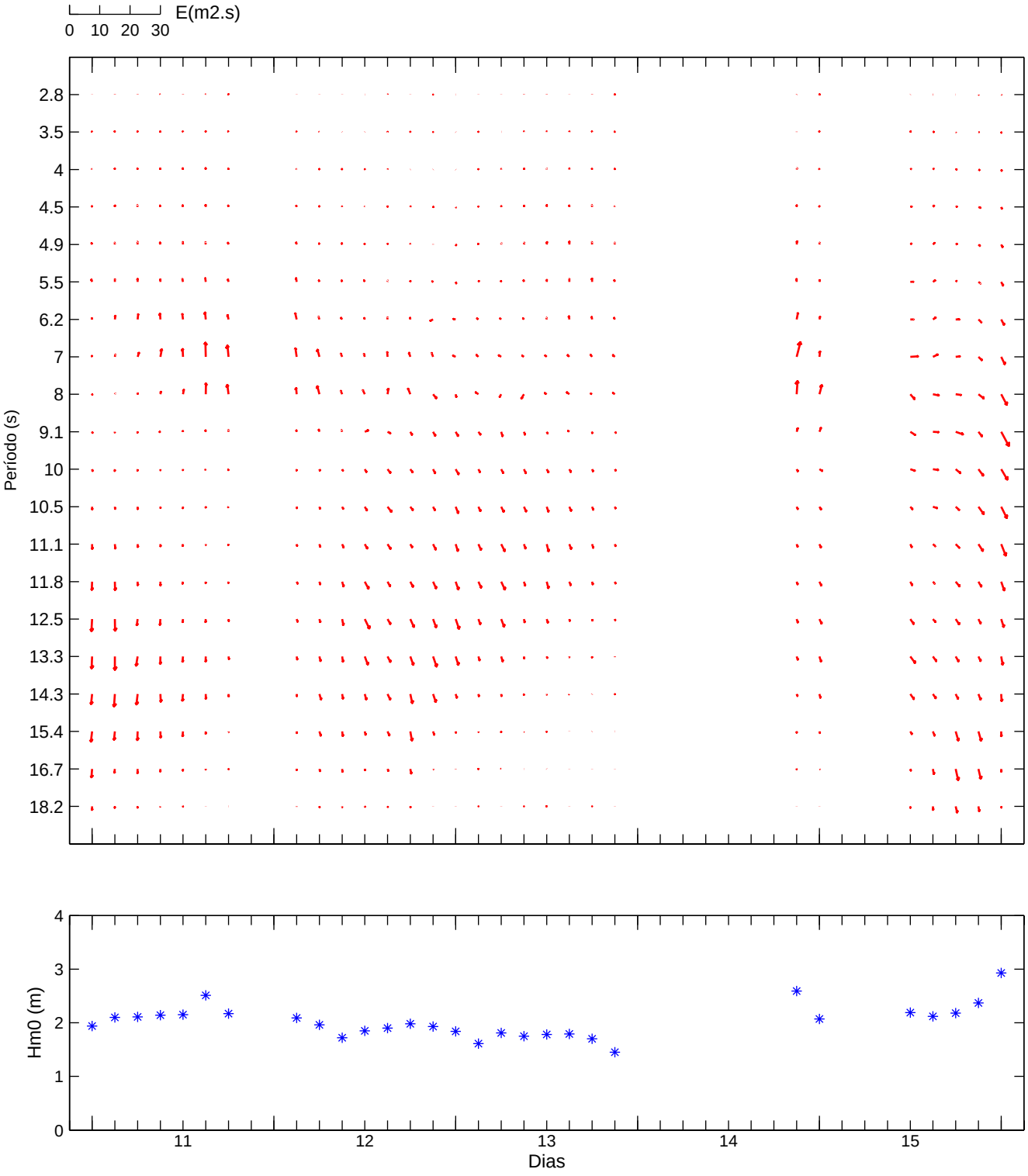
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − TERCEIRA 2006 MAR 6−10



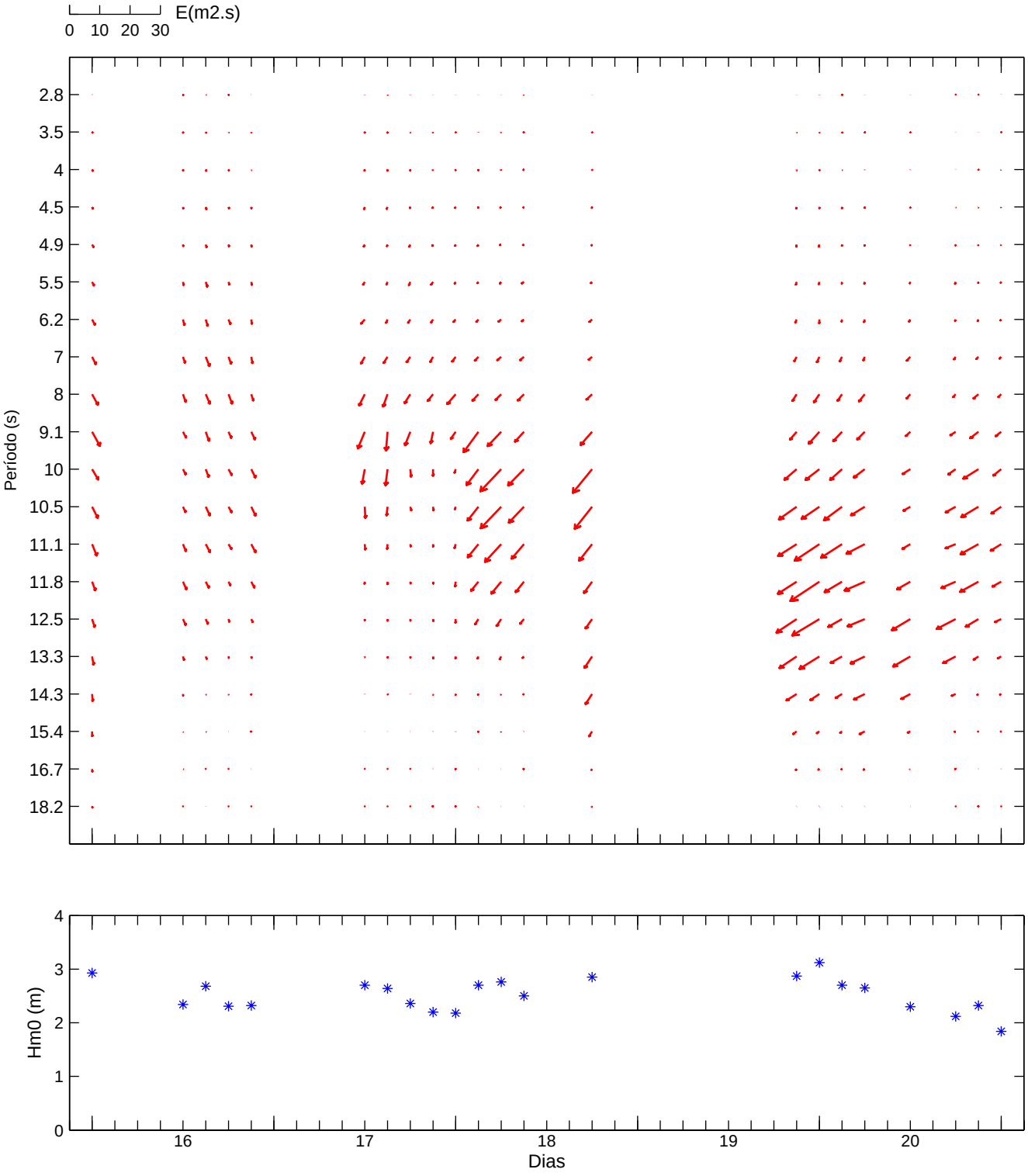
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − TERCEIRA 2006 MAR 11−15



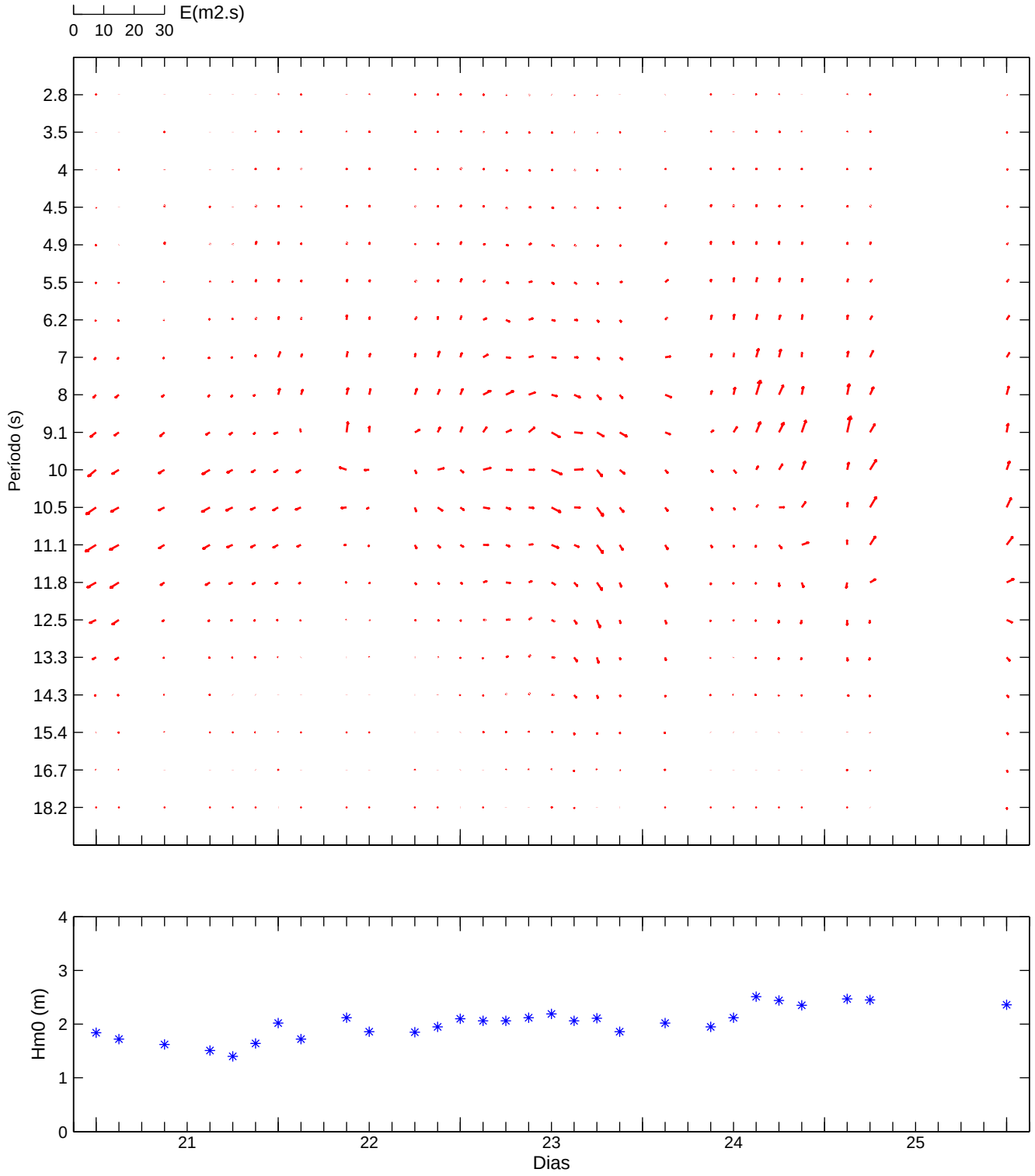
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − TERCEIRA 2006 MAR 16−20



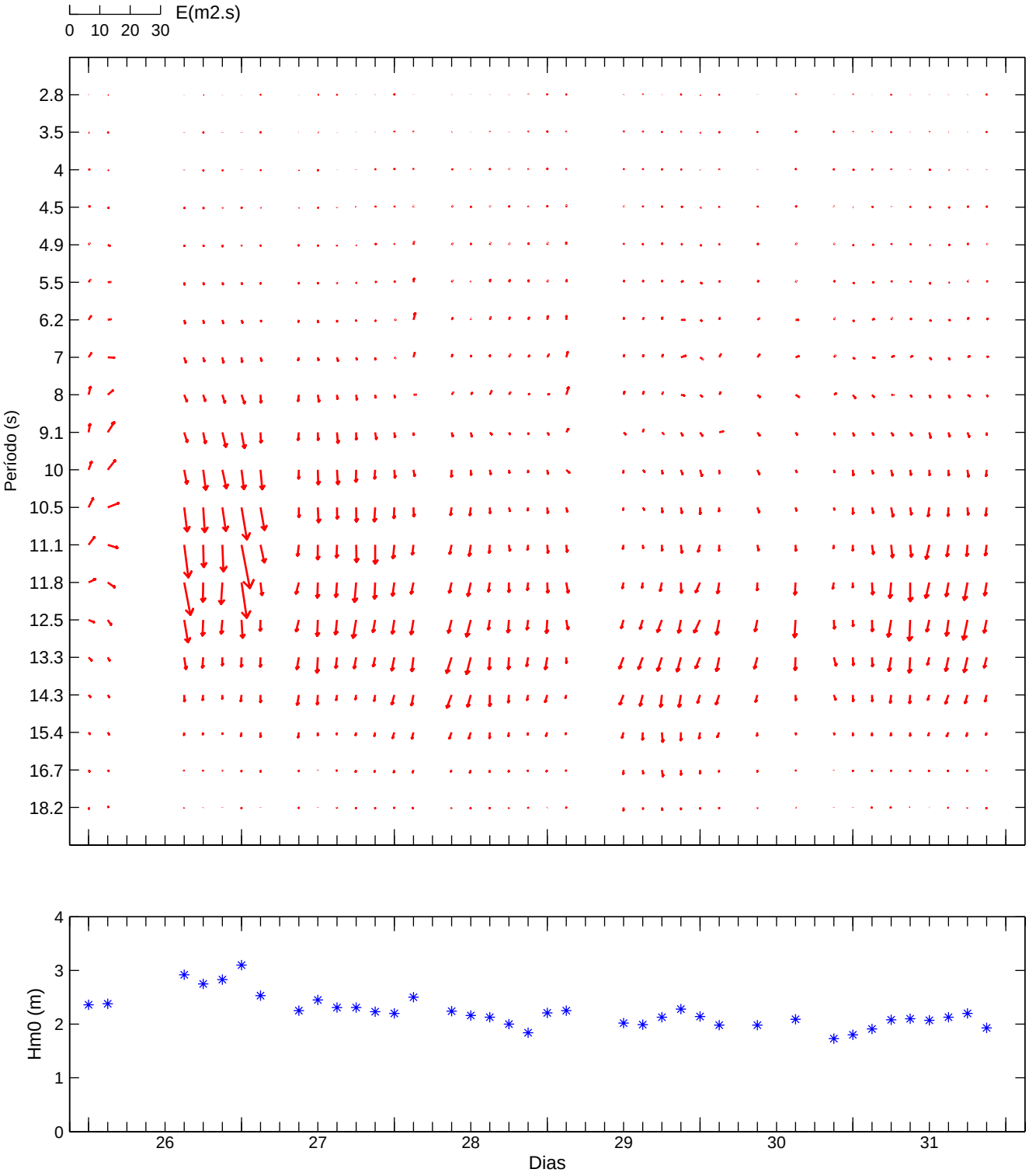
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − TERCEIRA 2006 MAR 21−25



EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − TERCEIRA 2006 MAR 26−31

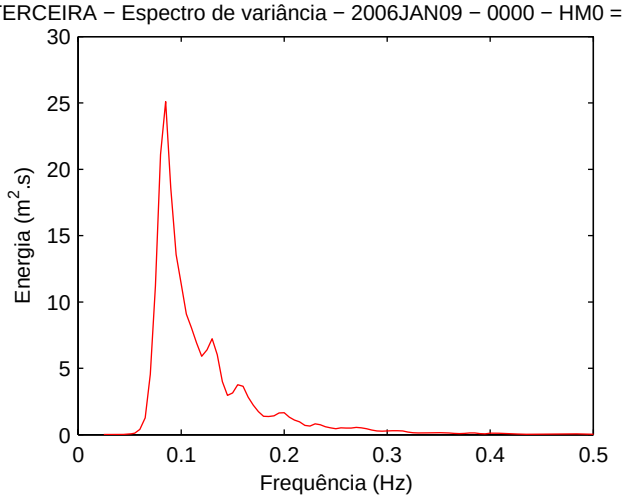


ANEXO H

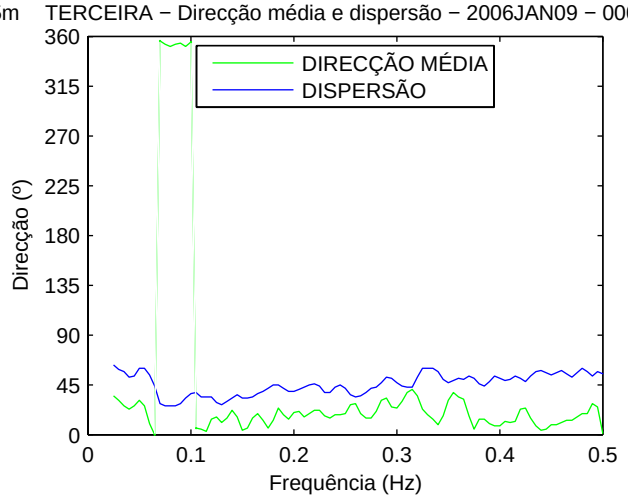
Gráficos de distribuição de energia, direcção média e dispersão,
para os registos em que HM0 ≥ 4.0 metros

NOTA: Em Março não se verificaram nenhumas ocorrências de HM0 ≥ 4.0 metros.

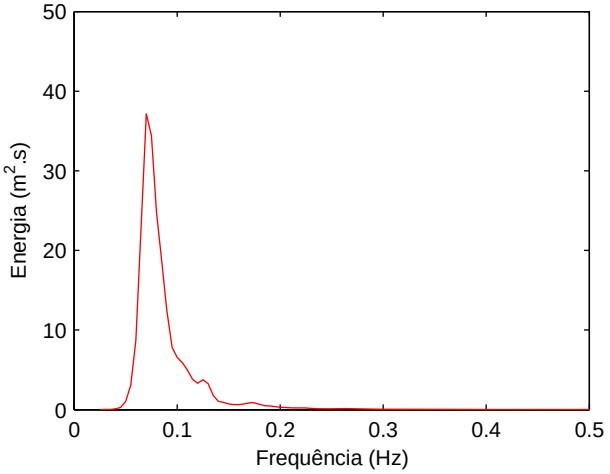
TERCEIRA − Espectro de variância − 2006JAN09 − 0000 − HM0 = 4.05m



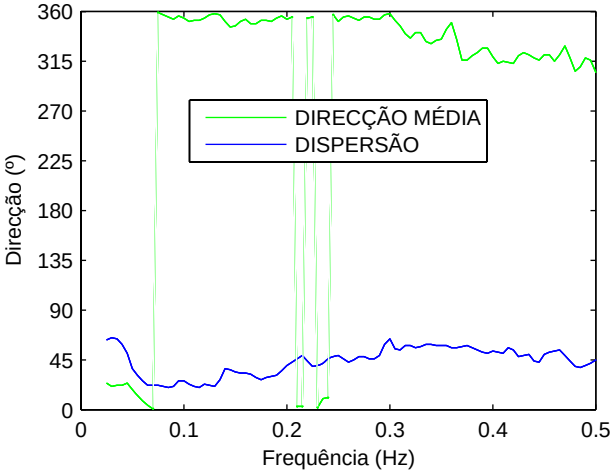
TERCEIRA − Direcção média e dispersão − 2006JAN09 − 0000



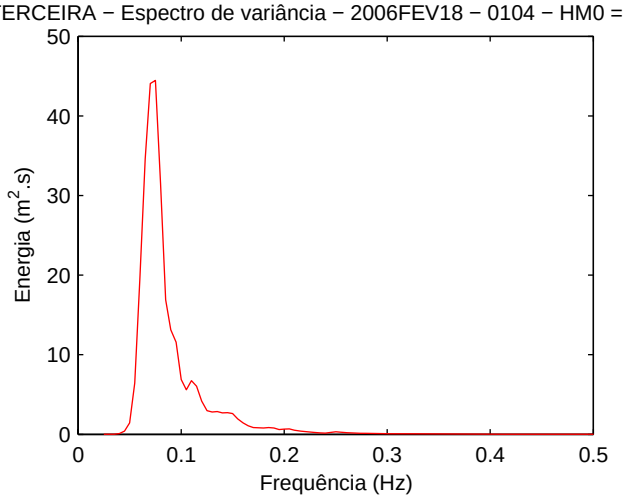
TERCEIRA − Espectro de variância − 2006FEV17 − 2100 − HM0 = 4.17m



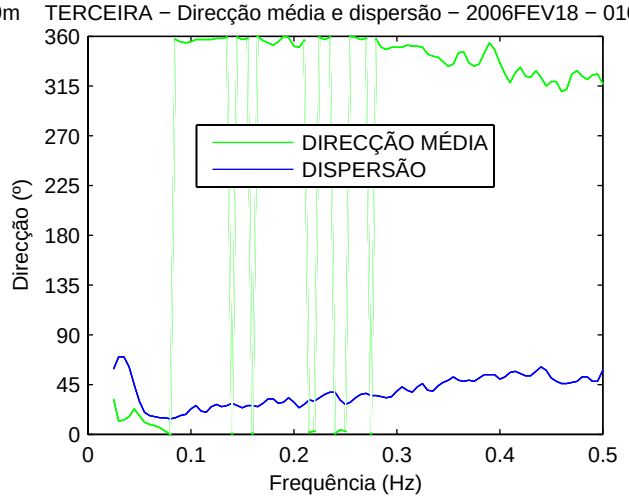
TERCEIRA − Direcção média e dispersão − 2006FEV17 − 2100



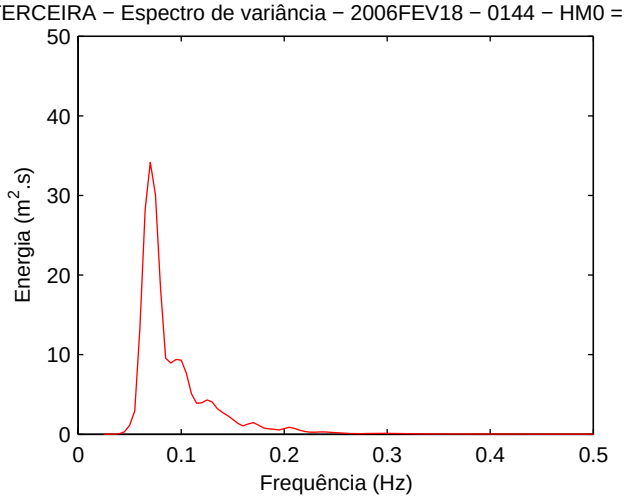
TERCEIRA − Espectro de variância − 2006FEV18 − 0104 − HM0 = 4.79m



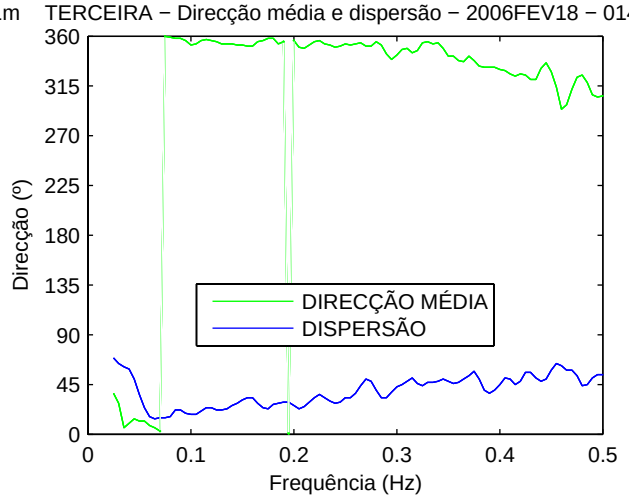
TERCEIRA − Direcção média e dispersão − 2006FEV18 − 0104



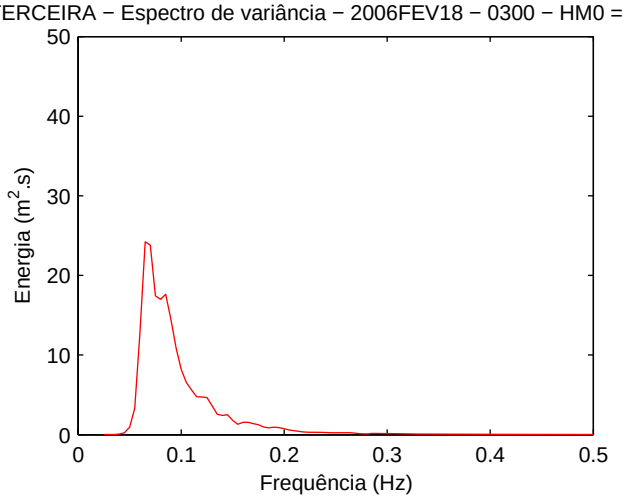
TERCEIRA − Espectro de variância − 2006FEV18 − 0144 − HM0 = 4.21m



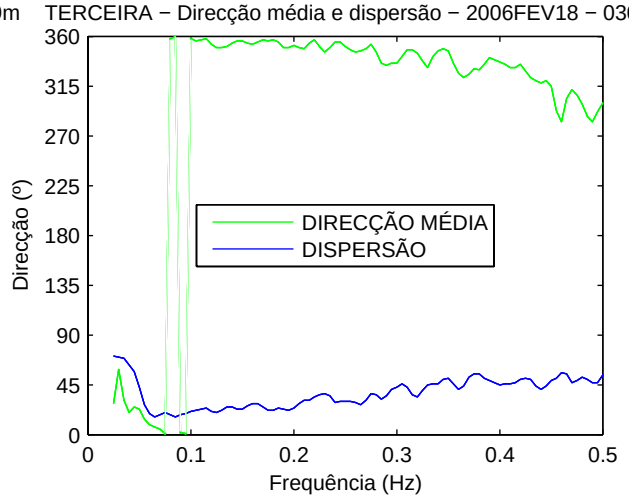
TERCEIRA − Direcção média e dispersão − 2006FEV18 − 0144



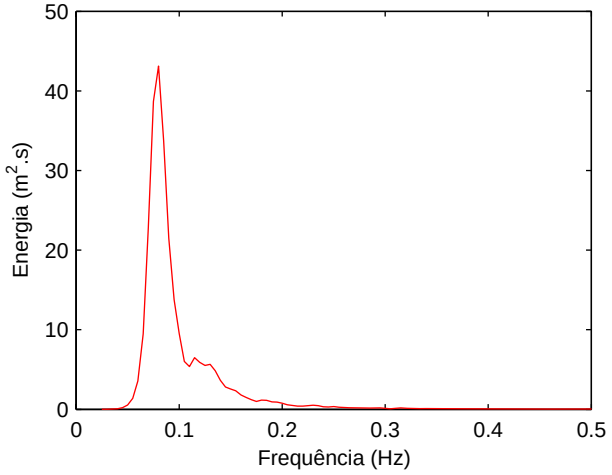
TERCEIRA − Espectro de variância − 2006FEV18 − 0300 − HM0 = 4.09m



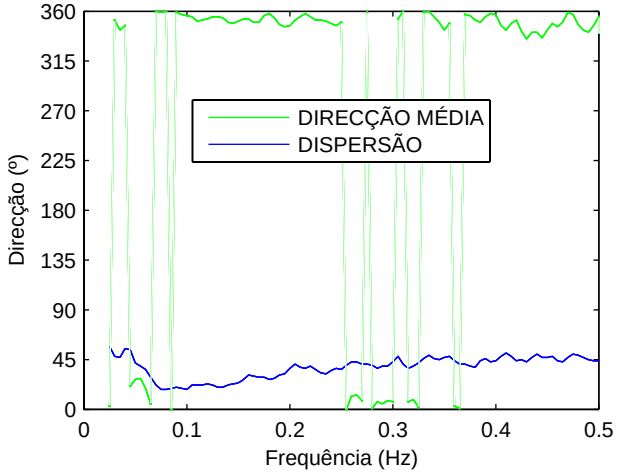
TERCEIRA − Direcção média e dispersão − 2006FEV18 − 0300



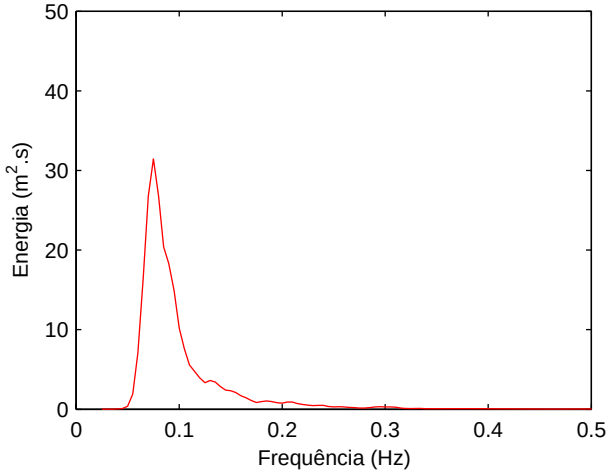
TERCEIRA − Espectro de variância − 2006FEV18 − 1500 − HM0 = 4.64m



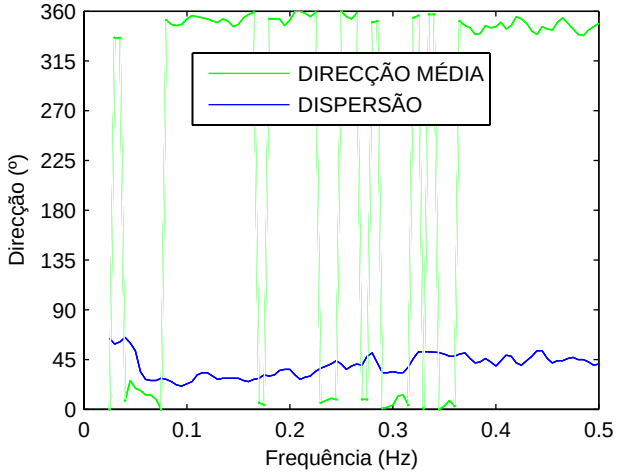
TERCEIRA − Direcção média e dispersão − 2006FEV18 − 1500



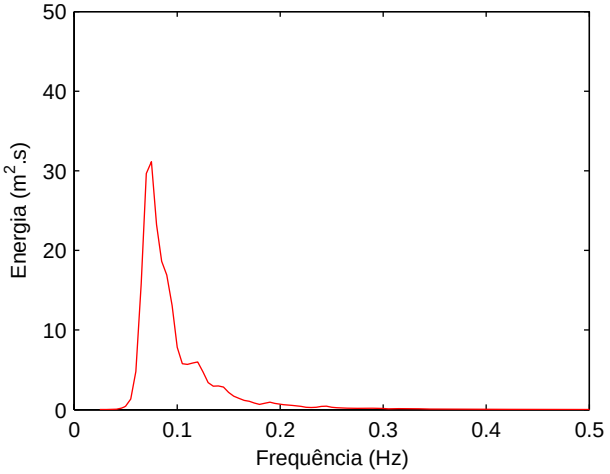
TERCEIRA − Espectro de variância − 2006FEV18 − 1753 − HM0 = 4.36m



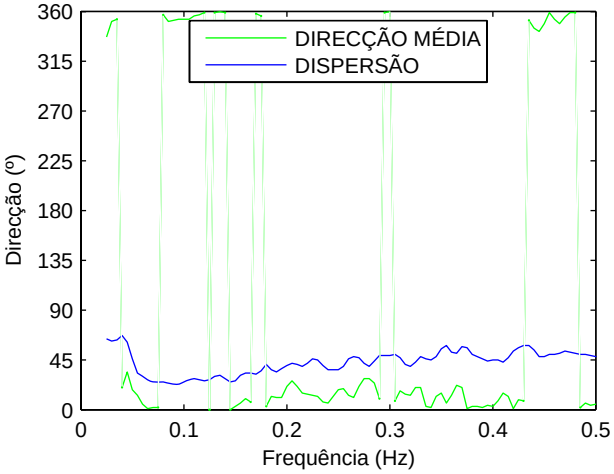
TERCEIRA − Direcção média e dispersão − 2006FEV18 − 1753



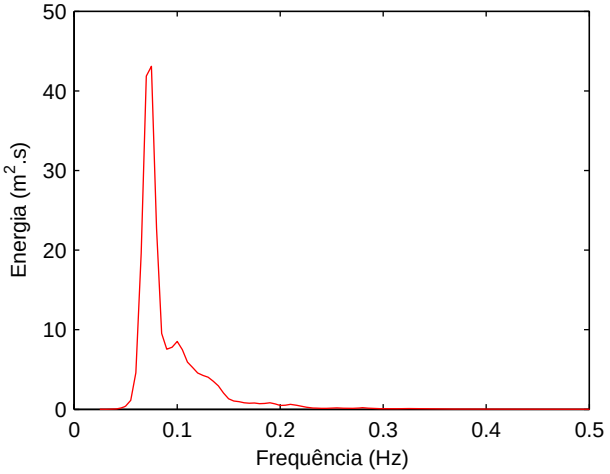
TERCEIRA − Espectro de variância − 2006FEV18 − 2100 − HM0 = 4.23m



TERCEIRA − Direcção média e dispersão − 2006FEV18 − 2100



TERCEIRA − Espectro de variância − 2006FEV19 − 0300 − HM0 = 4.22m



TERCEIRA − Direcção média e dispersão − 2006FEV19 − 0300