INSTITUTO HIDROGRÁFICO

DIVISÃO DE OCEANOGRAFIA

PJ OC 52EO06
RELATÓRIO TÉCNICO PRELIMINAR
REL. TP-OC-26/2006

TRATAMENTO DE DADOS DE AGITAÇÃO MARÍTIMA AÇORES/S. MIGUEL - ABRIL A JUNHO 2006

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TÍTULO DO RELATÓRIO

Tratamento de dados de agitação marítima
Açores/S. Miguel, Abril a Junho de 2006

AUTOR(ES)
INSTITUTO HIDROGRÁFICO

TIPO DE RELATÓRIO	PERÍODO	DATA DO RELATÓRIO	Nº DE PÁGINAS
Técnico Preliminar	Abr a Jun 2006	04 de Setembro de 2006	100

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 de Ponta Delgada na ilha de S Miguel, relativos ao período de Abril a Junho 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 52EO06
RELATÓRIO TÉCNICO PRELIMINAR
REL. TP-OC-26/2006

TRATAMENTO DE DADOS DE AGITAÇÃO MARÍTIMA AÇORES/S. MIGUEL - ABRIL A JUNHO 2006

1. INTRODUÇÃO

Neste relatório apresenta-se o processamento dos dados de agitação marítima adquiridos pela estação ondógrafo direccional instalada ao largo de Ponta Delgada na ilha de S. Miguel, relativos ao período de Abril a Junho de 2006. A estação, composta pela bóia DIRECTIONAL WAVERIDER MKIII, receptor WAREC e computador PCPENTIUM, está situada na posição LATITUDE = 37° 43′ 53″ N, LONGITUDE= 25° 43′ 28″ W, Sonda Reduzida = 90 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 Março, esta só foi recolocada a 12 de Abril, pelo que não existem dados até ao dia 11 deste mês.

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 ≥ 3.0 metros.

Adjunto da Divisão de Oceanografia
Responsável pela Secção de Agitação Marítima
Mariana Simões Cruz
2006. Out. 18
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)
12	15-00	405	.96	1.19	1.47	1.55	.60	5.6	5.7	5.9	6.2	4.4	3.5	10.9
12	18-00	393	.99	1.20	1.59	1.79	.65	5.3	5.2	5.5	4.7	4.6	3.5	13.3
13	00-00	362	.95	1.16	1.34	1.35	.63	6.1	6.2	6.4	7.8	5.0	3.9	10.2
13	03-00	337	.77	.96	1.24	1.34	.48	6.6	6.6	6.0	6.2	5.3	3.9	11.7
13	06-00	342	.68	.84	1.02	1.05	.44	6.7	7.1	6.5	5.5	5.2	3.6	14.1
13	18-00	265	.59	.75	.92	1.04	.39	6.8	6.9	6.8	5.5	5.2	3.6	13.3
13	21-00	318	.51	.61	.75	.82	.34	7.3	7.1	6.8	7.0	5.6	3.9	14.8
14	00-00	343	.56	.71	.91	1.00	.35	6.9	7.6	8.1	10.9	5.2	3.8	12.5
14	03-00	280	.55	.67	.86	.94	.35	8.9	9.5	10.9	7.0	6.4	4.0	14.1
14	06-00	415	.51	.65	.87	.98	.33	6.7	8.7	11.1	10.2	4.3	2.7	15.6
14	09-00	316	.49	.62	.76	.81	.30	8.7	10.4	10.9	10.9	5.7	3.1	14.8
14	12-00	309	.49	.63	.81	.84	.30	8.8	10.1	10.2	10.2	5.8	3.2	13.3
14	15-00	258	.56	.72	.90	.90	.35	7.6	9.6	10.2	10.2	5.1	3.2	13.3
14	18-00	357	.55	.71	.98	1.09	.34	7.1	8.9	10.5	8.6	5.0	2.9	17.2
15	00-00	274	.61	.73	.83	.84	.37	10.0	11.0	10.4	11.7	6.5	3.7	14.8
15	03-00	264	.61	.76	.94	.99	.38	9.8	10.7	11.5	9.4	6.8	4.1	14.8
15	06-00	276	.58	.73	.91	.94	.36	9.4	10.2	10.4	10.2	6.5	3.8	15.6
15	09-00	246	.52	.65	.79	.80	.32	10.0	10.4	10.2	10.9	7.3	4.0	18.0
15	12-00	299	.59	.76	.96	.99	.37	8.4	9.6	9.4	9.4	6.0	3.5	14.8
15	15-00	272	.55	.71	.92	1.01	.33	9.7	10.1	8.3	7.0	6.6	3.4	17.2
15	18-00	289	.55	.72	.91	1.05	.33	9.3	10.3	10.2	8.6	6.2	3.3	13.3
15	21-00	215	.59	.74	.91	.92	.39	10.0	9.7	9.8	9.4	8.4	4.9	16.4
16	00-00	248	.58	.72	.94	.96	.36	9.5	9.7	10.9	10.9	7.2	4.2	15.6
16	03-00	237	.63	.80	1.11	1.12	.39	9.9	10.1	10.5	11.7	7.4	4.7	17.2
16	06-00	220	.56	.67	.89	.97	.37	10.1	9.8	9.0	8.6	8.1	4.4	18.0
16	09-00	228	.50	.62	.81	.85	.31	10.3	10.0	10.2	10.9	7.8	4.8	14.8
16	12-00	355	.47	.62	.75	.76	.29	7.6	9.3	9.6	8.6	5.1	2.7	17.2
16	15-00	421	.51	.64	.84	.92	.33	6.1	7.6	9.8	10.9	4.3	2.7	14.8
16	18-00	345	.46	.60	.77	.80	.29	7.9	9.7	10.4	9.4	5.2	2.9	15.6
16	21-00	367	.44	.58	.76	.84	.27	7.7	10.1	12.1	11.7	4.9	2.9	14.1
17	00-00	390	.45	.58	.80	.85	.29	6.9	9.0	10.7	9.4	4.6	2.7	14.1
17	03-00	380	.41	.52	.67	.71	.27	6.9	9.0	9.6	9.4	4.7	2.8	15.6
17	06-00	352	.46	.58	.74	.80	.30	7.8	9.7	10.4	10.9	5.1	3.0	14.8
17	09-00	366	.44	.58	.75	.85	.28	7.4	9.3	10.9	10.2	4.9	3.0	14.8
17	12-00	231	.43	.55	.88	.89	.27	5.5	7.3	10.5	9.4	4.1	2.9	12.5
17	15-00	424	.51	.66	.85	.87	.33	5.8	7.4	9.0	10.2	4.2	2.9	11.7
17	18-00	388	.56	.73	.92	1.08	.35	6.7	8.7	9.6	9.4	4.6	3.0	11.7
17	21-00	313	.62	.79	1.06	1.18	.38	8.8	9.9	9.9	9.4	5.7	3.2	14.8
18	00-00	256	.70	.83	1.05	1.16	.44	8.9	9.0	9.1	9.4	6.6	3.8	14.8
18	03-00	261	.79	1.00	1.37	1.46	.50	8.5	8.6	8.9	9.4	6.8	4.1	14.1
18	06-00	284	.73	.93	1.12	1.19	.46	8.4	8.6	8.6	8.6	6.3	4.1	14.1
18	09-00	283	.70	.87	1.02	1.03	.44	8.4	8.0	8.1	9.4	6.3	4.0	14.8
18	12-00	272	.69	.87	1.02	1.07	.42	8.5	8.7	9.4	7.8	6.6	4.2	13.3
18	15-00	322	.60	.77	1.04	1.09	.37	7.7	7.9	8.1	8.6	5.5	3.5	14.1
18	18-00	313	.65	.85	1.11	1.21	.40	7.8	8.2	8.3	7.8	5.7	3.6	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)
18	21-00	330	.62	.82	1.14	1.20	.39	7.4	7.7	7.6	7.8	5.4	3.6	10.2
19	00-00	340	.53	.68	.91	.92	.34	7.1	7.5	6.8	7.0	5.3	3.5	12.5
19	03-00	342	.59	.73	.92	.96	.36	7.0	7.6	7.8	8.6	5.2	3.6	11.7
19	06-00	383	.64	.82	1.07	1.13	.40	6.4	6.7	7.2	7.0	4.7	3.2	11.7
19	09-00	385	.73	.90	1.16	1.27	.47	6.0	6.5	7.0	3.9	4.7	3.4	12.5
19	15-00	395	1.03	1.30	1.73	2.06	.65	5.8	5.6	5.5	5.5	4.5	3.5	10.9
19	18-00	385	1.22	1.49	1.75	1.87	.79	6.0	6.2	5.5	4.7	4.6	3.6	10.2
19	21-00	376	1.20	1.47	1.90	1.91	.76	5.9	5.7	6.1	7.0	4.8	3.6	10.2
20	00-00	374	1.05	1.30	1.66	1.90	.68	6.0	6.5	5.5	6.2	4.8	3.7	10.9
20	03-00	357	1.05	1.28	1.65	1.83	.66	6.4	6.6	6.4	5.5	5.0	3.7	10.9
20	06-00	335	1.02	1.30	1.81	1.97	.66	6.9	7.0	7.0	5.5	5.3	3.9	12.5
20	09-00	324	1.08	1.38	1.66	1.75	.69	7.2	7.0	8.3	8.6	5.5	3.9	11.7
20	12-00	291	1.14	1.40	1.62	1.66	.72	7.9	8.7	8.1	7.0	6.2	4.1	13.3
20	15-00	308	1.01	1.23	1.49	1.56	.65	8.0	8.6	9.1	9.4	5.8	3.5	12.5
20	18-00	311	.96	1.18	1.43	1.51	.62	8.0	8.6	8.6	9.4	5.8	3.5	14.1
20	21-00	287	.91	1.15	1.51	1.58	.58	8.3	8.8	9.1	9.4	6.2	3.9	11.7
21	00-00	268	.90	1.10	1.46	1.55	.58	8.4	8.7	8.9	10.2	6.7	4.3	12.5
21	03-00	272	.90	1.13	1.41	1.44	.55	8.9	9.1	9.4	9.4	6.6	4.8	13.3
21	06-00	270	.82	.99	1.22	1.33	.52	8.7	8.9	9.4	9.4	6.6	4.6	14.1
21	09-00	255	.88	1.08	1.28	1.29	.56	8.7	8.9	8.3	8.6	7.0	4.7	12.5
21	12-00	285	.70	.87	1.04	1.08	.44	8.5	9.1	8.6	8.6	6.3	3.6	13.3
21	15-00	255	.77	.98	1.35	1.38	.46	9.3	9.4	9.9	9.4	7.0	4.2	13.3
21	18-00	246	.80	.99	1.28	1.30	.50	9.5	9.4	10.2	10.2	7.3	4.2	12.5
21	21-00	232	.93	1.16	1.46	1.52	.56	9.2	9.5	9.4	8.6	7.7	5.0	13.3
22	00-00	232	.67	.85	1.04	1.06	.42	9.3	9.0	9.4	10.2	7.7	4.9	14.1
22	03-00	241	.63	.79	1.04	1.06	.39	9.4	9.1	10.2	10.2	7.4	4.9	15.6
22	06-00	233	.74	.95	1.21	1.27	.45	9.4	9.5	9.4	9.4	7.7	5.2	16.4
22	09-00	218	.82	1.04	1.33	1.43	.50	9.9	9.7	10.2	10.2	8.2	5.1	14.8
22	12-00	196	.91	1.11	1.27	1.28	.57	11.1	11.0	10.5	10.9	9.1	4.9	15.6
22	15-00	192	.86	1.08	1.32	1.33	.56	10.4	10.4	10.5	10.9	9.3	5.3	15.6
22	18-00	164	.88	1.07	1.28	1.35	.56	10.3	10.3	10.2	10.9	8.9	5.0	13.3
22	21-00	224	.87	1.10	1.27	1.29	.53	10.1	10.0	10.2	9.4	8.0	4.3	14.1
23	00-00	222	.76	.95	1.23	1.32	.48	9.8	9.9	9.4	9.4	8.0	4.7	14.1
23	03-00	205	.81	1.03	1.33	1.39	.52	10.2	10.0	10.2	10.2	8.7	5.2	13.3
23	06-00	204	.88	1.10	1.27	1.28	.57	10.0	10.0	10.2	10.9	8.7	5.8	14.8
23	09-00	197	1.00	1.21	1.53	1.55	.65	9.8	9.9	9.8	10.2	9.1	6.1	14.1
23	12-00	207	.95	1.19	1.63	1.65	.60	9.9	9.8	10.2	9.4	8.6	5.9	14.1
23	15-00	205	.89	1.12	1.29	1.30	.58	9.8	9.7	9.4	9.4	8.7	6.2	16.4
23	18-00	209	.89	1.09	1.28	1.31	.59	9.5	9.4	9.0	9.4	8.5	4.7	15.6
23	21-00	212	.91	1.14	1.37	1.38	.60	9.5	9.5	8.6	9.4	8.4	5.2	17.2
24	00-00	205	.91	1.13	1.36	1.38	.59	9.5	9.3	9.4	10.2	8.7	5.7	14.8
24	03-00	214	.93	1.20	1.67	1.85	.60	9.7	9.7	9.0	8.6	8.4	5.6	14.8
24	06-00	217	.96	1.20	1.58	1.65	.59	10.2	10.7	10.5	10.2	8.3	4.6	14.8
24	09-00	220	1.00	1.26	1.57	1.58	.61	10.0	10.2	9.0	8.6	8.2	4.7	16.4
24	12-00	253	1.06	1.33	1.69	1.72	.63	10.0	9.6	10.7	10.9	7.0	3.6	14.8

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)
24	15-00	244	1.16	1.44	1.66	1.73	.72	9.9	10.3	10.5	10.2	7.3	3.9	14.1
24	18-00	263	1.26	1.63	2.49	2.85	.75	9.7	10.3	9.4	10.2	6.8	4.1	12.5
24	21-00	270	1.33	1.67	2.21	2.32	.81	9.4	10.0	10.4	10.9	6.6	3.8	14.1
25	00-00	302	1.23	1.55	1.90	2.07	.75	8.9	9.1	9.9	10.2	5.9	3.6	14.1
25	03-00	292	1.47	1.85	2.53	2.60	.92	8.5	9.6	8.9	10.2	6.1	4.1	12.5
25	06-00	319	1.39	1.77	2.23	2.45	.86	7.7	8.2	7.8	7.0	5.6	3.6	12.5
25	09-00	329	1.43	1.77	2.15	2.21	.91	7.3	7.6	8.3	7.0	5.4	3.7	11.7
25	12-00	337	1.41	1.81	2.48	2.61	.90	7.0	7.9	8.1	7.8	5.3	3.8	13.3
25	21-00	313	1.54	1.88	2.43	2.72	.98	7.6	7.5	7.3	7.0	5.7	3.9	13.3
26	09-00	331	1.24	1.53	1.85	1.97	.77	7.3	7.8	7.6	7.8	5.4	3.8	12.5
26	15-00	331	1.25	1.55	2.00	2.06	.79	7.2	7.9	7.0	7.8	5.4	3.8	13.3
26	18-00	314	1.31	1.67	1.97	2.08	.81	7.8	8.2	8.1	10.2	5.7	3.8	13.3
27	00-00	341	1.35	1.66	2.12	2.15	.86	7.0	7.1	8.1	8.6	5.2	3.8	11.7
27	03-00	331	1.19	1.47	1.86	1.89	.75	7.1	7.4	8.6	10.2	5.4	3.7	13.3
27	06-00	311	1.12	1.37	1.68	1.73	.72	7.5	7.7	8.1	7.0	5.7	3.7	13.3
27	09-00	321	1.10	1.38	1.82	2.15	.71	7.1	7.9	8.6	7.8	5.6	3.6	14.8
27	12-00	339	1.13	1.38	1.75	1.85	.74	6.6	7.3	7.6	6.2	5.3	3.8	10.9
27	15-00	333	1.08	1.35	1.78	1.92	.66	7.3	7.8	7.3	6.2	5.4	3.6	11.7
27	18-00	312	.88	1.09	1.47	1.56	.55	7.4	8.1	7.3	7.8	5.7	4.0	11.7
27	21-00	304	.82	.99	1.17	1.21	.54	7.6	7.5	8.1	7.8	5.9	4.0	10.9
28	00-00	315	.87	1.09	1.27	1.33	.55	7.4	8.0	7.6	8.6	5.7	3.8	11.7
28	03-00	323	.80	1.00	1.24	1.30	.52	7.3	8.0	7.8	7.0	5.5	3.9	12.5
28	06-00	290	.79	.99	1.30	1.44	.50	7.9	8.3	8.9	7.8	6.2	4.2	14.1
28	09-00	291	.67	.81	1.00	1.10	.42	8.0	8.3	9.6	9.4	6.1	4.1	13.3
28	12-00	397	.76	.92	1.15	1.26	.49	5.7	6.3	6.8	8.6	4.5	3.3	11.7
28	15-00	378	.73	.89	1.11	1.13	.49	5.9	6.4	6.6	6.2	4.7	3.4	10.9
28	18-00	410	.70	.90	1.16	1.26	.45	5.5	5.4	4.9	5.5	4.4	3.3	11.7
28	21-00	358	.62	.75	.93	1.02	.41	6.3	6.6	7.2	5.5	5.0	3.6	12.5
29	00-00	352	.58	.71	.86	.91	.37	6.2	6.6	6.8	9.4	5.1	3.8	11.7
29	03-00	358	.63	.77	.94	.95	.41	6.2	6.2	6.4	5.5	5.0	3.7	11.7
29	06-00	368	.57	.70	.93	1.08	.37	6.1	6.3	5.7	6.2	4.9	3.6	11.7
29	09-00	402	.66	.79	.99	1.07	.45	5.4	6.0	6.2	5.5	4.5	3.2	12.5
29	12-00	434	.80	1.01	1.29	1.46	.51	5.1	5.2	5.7	4.7	4.1	3.1	8.6
29	15-00	413	.94	1.15	1.39	1.45	.61	5.3	5.4	5.9	6.2	4.3	3.4	8.6
30	00-00	363	.64	.80	.99	1.02	.40	6.1	6.1	6.6	6.2	4.9	3.6	11.7
30	03-00	348	.63	.76	.94	1.04	.42	6.1	6.2	6.2	7.8	5.1	3.6	12.5
30	06-00	344	.60	.74	.99	1.08	.39	6.6	6.4	6.0	7.8	5.2	3.6	11.7
30	09-00	362	.56	.69	.83	.84	.36	6.3	6.7	6.1	6.2	4.9	3.5	12.5
30	12-00	382	.57	.71	.84	.86	.37	6.6	7.1	7.2	7.8	4.7	3.1	12.5
30	15-00	413	.55	.69	.83	.87	.34	6.3	6.9	6.4	7.0	4.3	2.8	12.5
30	18-00	340	.60	.75	.90	.97	.37	7.1	7.1	6.0	6.2	5.3	3.4	12.5
30	21-00	321	.54	.65	.78	.80	.34	7.6	8.1	9.4	10.9	5.6	3.7	14.8

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)
01	00-00	325	.56	.73	1.00	1.10	.34	7.7	8.5	8.9	7.8	5.5	3.6	14.8
01	03-00	311	.61	.76	.89	.90	.39	7.6	8.2	7.8	7.8	5.8	3.7	11.7
01	06-00	278	.64	.80	.92	.94	.42	8.6	8.7	9.1	10.2	6.5	4.0	13.3
01	09-00	284	.61	.77	.97	1.09	.38	8.7	8.7	8.1	8.6	6.3	4.2	12.5
01	12-00	320	.59	.74	.94	1.03	.36	8.3	9.3	9.1	9.4	5.6	3.1	13.3
01	15-00	396	.68	.86	1.10	1.28	.42	6.5	7.7	8.6	8.6	4.5	2.9	11.7
01	18-00	364	.70	.88	1.10	1.16	.43	7.5	8.4	9.2	9.4	4.9	3.1	13.3
01	21-00	336	.62	.82	1.18	1.28	.39	7.9	8.9	9.1	8.6	5.3	3.3	15.6
02	00-00	323	.67	.88	1.15	1.18	.40	8.3	9.4	8.6	8.6	5.5	3.2	14.8
02	03-00	319	.57	.73	.87	.89	.36	7.9	8.8	9.9	7.0	5.6	3.4	15.6
02	06-00	386	.83	1.04	1.29	1.39	.54	6.4	7.6	7.0	9.4	4.6	3.2	16.4
02	09-00	368	.86	1.07	1.33	1.39	.56	6.0	6.9	7.0	5.5	4.9	3.5	11.7
02	12-00	344	.81	1.01	1.22	1.25	.53	6.7	6.9	6.0	5.5	5.2	3.7	12.5
02	15-00	330	.89	1.11	1.42	1.48	.56	6.6	6.6	6.8	5.5	5.4	4.0	12.5
02	18-00	348	.82	.99	1.18	1.21	.54	6.5	7.0	7.0	7.0	5.1	3.7	10.9
02	21-00	324	.79	.98	1.31	1.42	.50	7.3	7.1	7.6	5.5	5.5	3.9	13.3
03	00-00	282	1.02	1.32	1.70	1.88	.64	8.0	8.1	8.1	7.8	6.3	4.5	11.7
03	03-00	285	1.10	1.36	1.76	1.91	.69	7.6	7.8	7.0	7.0	6.3	4.4	14.8
03	06-00	349	1.07	1.32	1.60	1.75	.68	7.0	7.2	8.3	7.0	5.1	3.4	12.5
03	09-00	303	1.08	1.35	1.75	1.85	.67	8.3	8.9	8.9	8.6	5.9	3.6	13.3
03	12-00	323	1.19	1.52	1.97	2.03	.74	7.9	8.9	9.9	9.4	5.5	3.6	14.1
03	15-00	358	1.13	1.39	1.65	1.71	.72	6.9	7.5	8.6	9.4	5.0	3.5	12.5
03	18-00	358	1.29	1.60	1.91	1.94	.84	6.4	6.5	6.1	4.7	5.0	3.6	11.7
03	21-00	325	1.50	1.82	2.26	2.28	.94	7.0	6.9	7.0	6.2	5.5	3.9	12.5
04	00-00	325	1.34	1.66	2.07	2.24	.85	7.0	7.0	7.3	7.8	5.5	3.9	12.5
04	03-00	273	1.53	1.81	2.29	2.53	.99	8.6	8.9	8.6	9.4	6.6	3.9	14.1
04	06-00	326	1.44	1.76	2.16	2.27	.89	7.5	8.3	8.3	9.4	5.5	3.8	14.1
04	09-00	330	1.42	1.74	2.08	2.09	.90	7.2	7.3	7.0	6.2	5.4	3.9	13.3
04	12-00	309	1.58	1.94	2.32	2.42	.99	7.7	7.5	6.0	6.2	5.8	4.0	15.6
04	15-00	291	1.38	1.70	2.27	2.39	.85	8.1	8.3	9.1	9.4	6.1	4.0	18.0
04	18-00	268	1.33	1.64	1.86	1.89	.81	9.0	9.4	10.2	11.7	6.6	4.1	18.8
05	00-00	334	1.24	1.54	2.00	2.08	.77	7.1	7.5	7.8	10.9	5.4	3.8	13.3
05	03-00	310	1.16	1.42	1.79	1.83	.75	7.7	8.2	7.3	7.8	5.8	3.8	14.1
05	06-00	276	1.16	1.43	1.83	2.01	.74	8.8	8.8	7.3	6.2	6.5	3.9	15.6
05	09-00	286	1.12	1.38	1.68	1.70	.70	8.2	8.6	7.8	7.8	6.3	4.2	15.6
05	12-00	253	1.22	1.52	1.94	2.05	.78	9.4	10.0	9.6	10.2	7.1	4.3	14.8
05	15-00	246	1.03	1.28	1.66	1.71	.67	9.3	10.5	11.7	13.3	7.3	4.5	14.8
05	18-00	265	.87	1.10	1.42	1.57	.56	8.9	9.3	9.6	8.6	6.7	4.4	16.4
05	21-00	290	.83	1.05	1.31	1.34	.53	8.2	8.7	9.6	8.6	6.2	4.0	13.3
06	00-00	248	.90	1.10	1.48	1.62	.58	9.8	10.7	9.4	9.4	7.2	4.7	18.0
06	03-00	260	.82	1.01	1.16	1.18	.52	9.4	9.6	9.9	12.5	6.9	4.2	14.8
06	06-00	262	.88	1.07	1.31	1.36	.54	9.8	10.3	12.0	13.3	6.8	3.9	16.4
06	09-00	264	.83	1.04	1.25	1.42	.53	10.0	10.4	12.2	14.1	6.8	3.9	17.2
06	12-00	256	.81	.99	1.28	1.53	.53	9.1	10.4	10.9	10.9	7.0	4.4	14.8
06	15-00	232	.77	.95	1.34	1.51	.48	10.7	10.9	10.9	10.2	7.7	4.5	17.2

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	276	.75	.95	1.19	1.25	.44	10.0	10.9	11.2	11.7	6.5	3.3	16.4
06	21-00	337	.66	.85	1.08	1.13	.42	8.2	9.6	11.2	12.5	5.3	3.2	15.6
07	00-00	360	.78	.97	1.15	1.24	.50	7.0	9.1	10.4	10.9	5.0	3.2	14.8
07	03-00	410	.94	1.17	1.54	1.67	.62	5.7	5.8	8.2	3.9	4.4	3.2	12.5
07	06-00	380	.80	.98	1.26	1.32	.52	6.2	7.1	10.2	13.3	4.7	3.4	13.3
07	09-00	367	.74	.90	1.16	1.22	.48	6.8	6.9	6.6	5.5	4.9	3.4	13.3
07	12-00	341	.78	.97	1.27	1.42	.51	7.4	8.9	11.5	10.2	5.3	3.5	14.8
07	15-00	341	.77	.95	1.14	1.17	.49	7.5	8.2	9.6	9.4	5.3	3.6	13.3
07	18-00	322	.73	.91	1.10	1.16	.47	7.5	8.7	9.6	10.9	5.6	3.6	15.6
07	21-00	298	.72	.91	1.23	1.32	.46	8.1	9.1	7.8	5.5	6.0	3.7	14.1
08	00-00	295	.77	.93	1.12	1.18	.51	7.9	8.0	8.1	7.8	6.1	3.9	14.1
08	03-00	306	.69	.84	1.05	1.08	.43	7.6	7.8	8.9	8.6	5.9	3.9	14.8
08	06-00	325	.71	.87	1.06	1.13	.43	8.0	8.5	9.4	7.8	5.5	3.2	14.1
08	09-00	386	.81	1.00	1.21	1.35	.52	6.3	6.8	8.6	8.6	4.6	3.3	13.3
08	15-00	371	1.38	1.79	2.29	2.38	.89	6.0	5.9	6.2	5.5	4.8	3.8	10.9
08	18-00	346	1.68	2.14	2.93	3.35	1.06	6.4	6.9	6.8	6.2	5.2	3.9	10.9
08	21-00	326	1.87	2.30	2.81	2.90	1.19	6.6	6.6	7.0	4.7	5.5	4.3	10.9
09	00-00	321	2.03	2.54	3.40	3.63	1.29	7.0	6.9	6.2	5.5	5.6	4.5	11.7
09	03-00	324	1.94	2.43	3.12	3.32	1.23	6.7	6.7	7.0	7.0	5.5	4.3	11.7
09	06-00	314	1.72	2.21	2.87	3.03	1.06	7.2	7.4	8.9	8.6	5.7	4.1	11.7
09	09-00	322	1.65	2.06	2.61	2.78	1.02	6.9	7.1	6.8	8.6	5.6	4.4	10.9
09	12-00	309	1.49	1.81	2.27	2.55	.99	7.0	7.0	6.8	7.0	5.8	4.2	10.9
09	15-00	311	1.31	1.62	2.00	2.10	.85	6.9	6.8	5.7	5.5	5.7	4.2	10.9
09	18-00	321	1.20	1.49	2.05	2.33	.76	6.9	7.0	7.0	7.8	5.6	4.1	10.9
09	21-00	291	1.07	1.29	1.70	1.93	.70	7.0	7.1	6.8	7.0	6.1	4.4	11.7
10	00-00	310	1.11	1.38	1.88	1.97	.72	6.6	6.7	7.0	7.8	5.8	4.5	10.2
10	03-00	321	.97	1.21	1.55	1.66	.63	6.5	6.3	7.3	6.2	5.6	4.3	12.5
10	06-00	352	.94	1.20	1.65	2.01	.60	6.4	6.3	6.8	6.2	5.1	3.7	10.2
10	09-00	385	.91	1.14	1.49	1.79	.58	6.0	6.2	5.9	5.5	4.7	3.5	10.2
10	12-00	367	.91	1.13	1.47	1.60	.57	6.2	6.3	5.9	4.7	4.9	3.5	10.9
10	15-00	390	1.04	1.27	1.70	1.84	.68	5.5	5.8	6.4	7.0	4.5	3.4	10.2
10	18-00	387	1.24	1.55	1.92	1.97	.79	5.8	5.9	5.9	4.7	4.6	3.6	10.2
10	21-00	363	1.30	1.63	1.98	2.15	.83	6.0	5.9	5.5	4.7	4.9	3.7	10.9
11	00-00	338	1.50	1.89	2.39	2.57	.97	6.4	6.4	6.8	7.8	5.3	4.2	10.9
11	03-00	354	1.43	1.75	2.17	2.27	.93	6.2	6.3	5.5	5.5	5.1	3.8	9.4
11	06-00	356	1.44	1.77	2.17	2.34	.93	6.3	6.4	5.9	7.0	5.0	3.8	10.9
11	09-00	337	1.63	1.96	2.47	2.69	1.06	6.4	6.5	6.8	4.7	5.3	3.7	11.7
11	12-00	335	1.78	2.20	3.00	3.37	1.17	6.4	6.4	6.5	6.2	5.3	4.0	10.9
11	15-00	333	2.05	2.53	3.29	4.03	1.35	6.4	6.5	6.0	6.2	5.4	4.2	10.2
11	18-00	326	1.93	2.48	3.14	3.35	1.24	6.6	6.6	5.5	5.5	5.5	4.0	10.9
11	21-00	315	1.93	2.42	3.13	3.44	1.24	6.8	6.8	7.0	7.0	5.7	4.1	10.9
12	00-00	316	2.00	2.46	3.33	3.46	1.25	6.9	7.0	6.8	7.0	5.7	4.3	11.7
12	03-00	322	2.04	2.53	3.28	3.73	1.29	6.8	6.8	7.8	7.8	5.6	4.3	10.2
12	06-00	326	1.96	2.41	2.95	3.02	1.24	6.7	6.9	6.5	6.2	5.5	4.2	10.2
12	09-00	322	1.75	2.15	2.68	2.75	1.14	6.7	6.7	6.5	6.2	5.6	4.0	10.2

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)
12	12-00	323	1.89	2.34	2.81	2.90	1.21	6.9	7.0	7.6	7.8	5.6	4.3	10.9
12	15-00	344	1.59	2.01	2.50	2.56	1.01	6.3	6.2	6.8	6.2	5.2	4.1	10.9
12	18-00	332	1.60	2.00	2.74	2.95	1.02	6.5	6.6	6.5	7.0	5.4	4.0	11.7
12	21-00	324	1.64	1.95	2.33	2.52	1.07	6.7	6.9	7.0	6.2	5.5	4.1	11.7
13	00-00	338	1.61	1.94	2.31	2.35	1.04	6.6	6.6	6.2	5.5	5.3	4.0	11.7
13	03-00	333	1.71	2.20	2.78	2.94	1.07	6.4	6.4	6.0	5.5	5.4	4.2	10.2
13	06-00	320	1.49	1.84	2.25	2.47	.98	6.7	6.5	6.0	6.2	5.6	4.1	10.9
13	09-00	361	1.72	2.07	2.46	2.63	1.14	5.6	5.7	5.7	5.5	5.0	3.9	10.2
13	12-00	311	2.07	2.63	3.58	3.85	1.32	6.8	6.9	7.3	6.2	5.7	4.3	10.9
13	15-00	272	2.54	3.25	4.43	4.76	1.57	7.7	8.0	7.8	7.8	6.6	5.0	11.7
13	18-00	253	2.32	2.89	3.72	3.96	1.46	8.2	8.3	8.1	7.8	7.1	5.3	13.3
13	21-00	267	2.00	2.49	3.05	3.27	1.26	7.8	7.9	7.6	7.0	6.7	5.1	10.9
14	00-00	270	2.10	2.71	3.30	3.40	1.33	7.7	7.7	7.8	7.8	6.6	4.9	11.7
14	03-00	285	1.99	2.43	2.85	2.95	1.28	7.5	7.5	8.6	7.8	6.3	4.5	10.9
14	06-00	285	1.68	2.05	2.62	2.66	1.07	7.7	7.7	7.6	7.0	6.3	4.3	12.5
14	09-00	308	1.74	2.22	3.17	3.37	1.11	7.4	7.7	8.1	7.8	5.8	4.1	11.7
14	12-00	311	1.82	2.30	3.14	3.53	1.15	7.1	7.2	7.3	7.8	5.8	4.1	11.7
14	15-00	321	1.76	2.17	2.64	2.66	1.11	6.9	6.5	6.5	7.0	5.6	4.1	10.9
14	18-00	312	1.90	2.30	2.98	3.34	1.23	6.6	6.6	6.2	5.5	5.7	4.4	10.9
14	21-00	320	1.82	2.24	2.82	2.99	1.16	6.7	6.6	6.2	5.5	5.6	4.2	10.9
15	00-00	328	1.79	2.24	2.93	3.05	1.13	6.8	7.0	6.8	5.5	5.4	4.0	10.9
15	03-00	314	1.91	2.32	2.95	3.00	1.21	7.1	6.9	7.6	8.6	5.7	4.3	10.9
15	06-00	309	1.82	2.25	2.95	3.49	1.17	7.0	6.9	7.3	7.8	5.8	4.4	10.9
15	09-00	307	1.92	2.44	3.22	3.50	1.20	7.3	7.2	6.8	6.2	5.8	4.3	11.7
15	12-00	315	1.95	2.42	3.42	3.55	1.20	7.2	7.1	7.6	7.8	5.6	4.3	10.9
15	15-00	304	1.99	2.46	3.09	3.41	1.28	7.1	7.1	7.3	7.0	5.9	4.4	11.7
15	18-00	310	1.95	2.40	2.92	3.05	1.23	7.1	7.2	7.8	8.6	5.8	4.4	10.9
15	21-00	320	1.89	2.37	3.03	3.06	1.19	7.2	7.0	8.1	7.0	5.6	4.2	12.5
16	00-00	331	1.90	2.42	2.99	3.05	1.20	6.7	6.8	7.6	7.8	5.4	4.3	10.2
16	03-00	308	2.23	2.83	3.69	4.07	1.47	6.6	6.8	6.2	4.7	5.8	4.5	10.2
16	06-00	292	2.15	2.71	3.16	3.19	1.38	7.0	7.0	6.8	7.0	6.1	4.6	11.7
16	09-00	281	1.80	2.21	2.74	3.10	1.17	7.4	7.3	7.3	7.8	6.4	5.0	11.7
16	12-00	323	1.50	1.83	2.28	2.47	.97	6.8	7.3	7.6	7.8	5.6	4.0	10.2
16	15-00	316	1.66	2.05	2.48	2.53	1.07	7.1	7.0	6.8	7.8	5.7	4.0	12.5
16	18-00	322	1.81	2.25	2.87	2.93	1.17	6.9	7.0	7.3	6.2	5.6	4.0	10.9
16	21-00	307	1.88	2.27	2.83	2.87	1.22	7.0	6.8	6.5	7.0	5.8	4.4	12.5
17	00-00	317	1.64	2.06	2.55	2.85	1.02	6.8	7.1	6.2	7.0	5.6	4.3	10.2
17	03-00	317	1.64	2.04	2.76	3.07	1.01	7.0	7.0	6.8	6.2	5.6	4.2	11.7
17	06-00	310	1.57	1.92	2.43	2.48	1.00	7.0	7.3	7.0	7.0	5.8	4.0	10.9
17	12-00	308	1.38	1.67	2.00	2.09	.92	7.0	7.0	6.5	7.0	5.8	4.5	12.5
17	15-00	302	1.33	1.65	1.99	2.21	.87	7.0	6.8	6.5	6.2	5.9	4.4	10.9
17	18-00	327	1.24	1.59	2.00	2.05	.77	6.8	6.8	7.0	7.0	5.5	4.0	12.5
17	21-00	320	1.18	1.50	1.81	1.83	.75	6.9	6.9	6.2	6.2	5.6	4.2	14.1
18	00-00	300	1.14	1.42	1.84	1.92	.73	7.2	7.7	7.0	7.8	6.0	4.5	14.1
18	03-00	287	1.06	1.34	1.74	1.91	.67	7.5	7.9	8.1	7.8	6.2	4.4	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)
18	06-00	283	1.05	1.28	1.64	1.72	.68	7.3	7.1	7.8	7.8	6.3	4.6	13.3
18	09-00	289	1.04	1.27	1.67	1.84	.68	7.4	7.6	8.1	7.8	6.2	4.6	12.5
18	12-00	295	.93	1.12	1.37	1.38	.60	7.2	7.1	6.5	7.0	6.0	4.3	15.6
18	18-00	304	.88	1.07	1.37	1.46	.55	7.5	8.1	7.8	7.8	5.9	4.2	13.3
18	21-00	296	.79	.99	1.31	1.36	.52	7.2	7.4	7.8	9.4	6.0	4.3	11.7
19	00-00	282	.81	1.06	1.37	1.44	.52	7.5	7.6	8.1	7.8	6.3	4.2	14.1
19	03-00	327	.74	.93	1.27	1.35	.46	7.4	7.6	7.8	7.0	5.5	3.7	13.3
19	06-00	334	.76	.93	1.15	1.23	.49	7.1	7.8	8.6	7.8	5.4	3.5	13.3
19	09-00	337	.77	.91	1.08	1.13	.50	6.8	7.2	6.0	6.2	5.3	3.7	11.7
19	12-00	357	.78	.95	1.16	1.29	.51	6.7	7.4	6.6	7.0	5.0	3.5	11.7
19	15-00	427	.77	.97	1.26	1.34	.50	5.4	5.9	5.1	3.9	4.2	3.2	10.9
19	18-00	372	.78	.97	1.26	1.35	.50	6.1	6.2	7.0	7.0	4.8	3.5	11.7
19	21-00	353	.74	.90	1.11	1.23	.48	6.5	6.8	6.4	7.0	5.1	3.5	12.5
20	00-00	361	.85	1.06	1.37	1.59	.55	6.4	6.9	6.6	7.0	5.0	3.5	12.5
20	03-00	390	1.08	1.33	1.67	1.92	.70	5.8	5.6	5.7	5.5	4.6	3.6	11.7
20	06-00	396	1.30	1.59	2.21	2.46	.84	5.5	5.5	5.5	4.7	4.5	3.6	10.2
20	09-00	365	1.60	2.00	2.55	3.14	1.02	5.9	6.1	5.9	5.5	4.9	3.9	10.2
20	12-00	342	1.75	2.17	2.69	2.90	1.11	6.3	6.5	6.5	5.5	5.2	4.0	10.9
20	15-00	321	2.00	2.50	3.56	3.88	1.28	6.7	6.8	7.0	6.2	5.6	4.2	12.5
20	18-00	316	2.25	2.78	3.39	3.71	1.44	6.8	6.8	6.8	5.5	5.7	4.3	10.9
20	21-00	305	2.08	2.58	3.22	3.71	1.33	7.3	7.2	7.8	7.8	5.9	4.3	10.2
21	00-00	270	2.06	2.52	3.23	3.55	1.34	8.4	8.7	9.4	9.4	6.6	4.7	12.5
21	03-00	256	1.93	2.48	3.19	3.36	1.20	8.6	8.8	8.6	7.8	7.0	4.8	14.1
21	06-00	253	1.75	2.13	2.67	3.06	1.14	8.4	8.4	7.6	7.0	7.1	4.9	14.1
21	09-00	236	2.02	2.51	3.33	3.35	1.26	9.4	9.8	9.4	10.2	7.6	4.9	14.8
21	12-00	247	2.05	2.58	3.33	3.37	1.26	9.8	9.9	10.2	9.4	7.2	4.6	13.3
21	15-00	229	1.75	2.09	2.71	2.95	1.11	9.8	9.7	10.5	9.4	7.8	4.3	14.8
21	18-00	253	1.68	2.12	2.84	3.38	1.05	9.3	9.6	9.1	8.6	7.1	4.5	12.5
22	00-00	217	1.65	2.07	2.47	2.48	1.06	10.0	10.0	10.5	10.2	8.3	5.0	14.8
22	03-00	222	1.50	1.86	2.58	2.59	.97	9.8	10.3	10.5	11.7	8.1	5.4	14.8
22	06-00	215	1.38	1.67	2.37	2.78	.89	10.0	10.5	10.5	10.2	8.3	5.5	14.1
22	09-00	230	1.53	1.93	2.39	2.55	.94	9.6	9.4	8.6	9.4	7.8	5.3	13.3
22	12-00	253	1.31	1.65	2.16	2.38	.77	9.5	9.8	9.6	9.4	7.1	4.8	14.8
22	15-00	219	1.18	1.47	1.85	1.91	.76	10.0	10.1	9.4	8.6	8.2	4.9	14.8
22	18-00	240	.96	1.18	1.56	1.67	.61	9.1	9.1	9.8	9.4	7.4	5.0	13.3
22	21-00	248	.90	1.12	1.44	1.46	.58	8.9	9.0	8.6	9.4	7.2	5.2	14.8
23	00-00	250	.89	1.10	1.28	1.29	.56	9.2	9.3	9.6	9.4	7.2	4.8	14.8
23	03-00	242	.84	1.03	1.33	1.38	.51	9.6	9.6	9.0	9.4	7.4	4.8	14.1
23	06-00	301	.78	.97	1.27	1.29	.47	9.1	9.9	9.4	8.6	5.9	3.6	13.3
23	09-00	296	.87	1.13	1.46	1.74	.54	8.7	9.2	8.6	8.6	6.0	3.5	13.3
23	12-00	313	.87	1.12	1.38	1.42	.52	8.0	8.7	10.7	10.2	5.7	3.6	13.3
23	15-00	337	.77	.94	1.13	1.21	.50	7.3	8.3	8.3	8.6	5.3	3.5	14.8
23	18-00	346	.76	.95	1.25	1.52	.49	7.3	8.2	7.6	8.6	5.2	3.5	13.3
23	21-00	343	.86	1.08	1.35	1.41	.55	7.2	8.0	7.8	5.5	5.2	3.6	14.8
24	00-00	367	.90	1.13	1.32	1.42	.57	6.5	7.1	8.4	8.6	4.9	3.5	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)
24	03-00	360	.78	.98	1.30	1.45	.50	6.5	7.0	7.8	8.6	5.0	3.6	12.5
24	06-00	301	.81	1.00	1.25	1.29	.52	8.6	9.7	8.6	8.6	6.0	3.7	14.1
24	09-00	309	.77	.96	1.32	1.63	.49	8.5	8.9	9.6	7.8	5.8	3.7	17.2
24	12-00	324	.73	.88	1.07	1.15	.46	8.0	8.7	10.9	10.9	5.5	3.8	14.8
24	15-00	311	.71	.91	1.17	1.26	.44	8.1	8.6	9.1	9.4	5.8	3.7	14.1
24	18-00	279	.66	.84	1.10	1.19	.42	8.8	9.4	7.3	7.8	6.4	4.0	15.6
24	21-00	326	.61	.76	1.00	1.03	.38	7.9	8.4	9.4	10.9	5.5	3.6	14.1
25	00-00	311	.67	.84	1.10	1.15	.41	8.0	8.6	9.6	8.6	5.8	3.8	14.1
25	03-00	310	.68	.87	1.10	1.29	.42	8.3	9.1	9.9	8.6	5.8	3.9	15.6
25	06-00	274	.59	.75	.97	1.04	.38	8.6	9.0	9.4	10.2	6.5	4.0	15.6
25	09-00	265	.64	.81	1.01	1.05	.41	8.6	8.3	7.8	7.0	6.7	4.2	15.6
25	12-00	299	.65	.81	.99	1.00	.40	8.1	8.6	8.6	10.2	6.0	3.8	14.8
25	15-00	278	.65	.80	1.07	1.16	.42	8.7	9.2	8.3	8.6	6.4	3.8	15.6
25	18-00	275	.57	.71	.81	.83	.35	8.9	9.2	10.4	10.2	6.5	4.0	15.6
25	21-00	255	.63	.78	.93	.95	.39	9.3	9.2	9.1	8.6	7.0	4.3	15.6
26	00-00	240	.74	.89	1.08	1.09	.47	9.5	9.3	8.2	7.0	7.5	4.8	14.1
26	03-00	222	.89	1.09	1.45	1.53	.59	9.5	9.3	10.2	8.6	8.1	5.3	14.8
26	06-00	218	.86	1.08	1.42	1.48	.55	9.6	9.6	9.8	9.4	8.2	5.7	15.6
26	09-00	211	.86	1.07	1.55	1.73	.54	9.3	9.8	9.4	8.6	7.9	5.6	17.2
26	12-00	249	.85	1.06	1.44	1.44	.53	9.4	9.7	9.8	9.4	7.2	4.5	14.8
26	15-00	253	1.05	1.32	1.71	1.74	.64	9.7	10.1	11.5	10.9	7.1	4.7	12.5
26	21-00	254	1.08	1.38	1.62	1.67	.67	9.0	9.0	9.4	9.4	7.0	4.0	13.3
27	00-00	272	1.09	1.34	1.62	1.69	.68	8.7	8.8	9.4	7.8	6.6	4.1	13.3
27	03-00	271	1.10	1.40	1.74	1.89	.69	8.5	8.7	8.1	9.4	6.6	4.2	12.5
27	06-00	272	1.14	1.46	1.79	1.90	.71	9.0	8.9	9.1	9.4	6.6	4.0	12.5
27	09-00	281	.89	1.11	1.47	1.61	.57	8.3	8.4	9.1	10.2	6.4	4.4	12.5
27	12-00	297	1.01	1.23	1.58	1.62	.64	7.6	8.0	9.1	8.6	6.0	3.9	11.7
27	15-00	284	.99	1.28	1.64	1.70	.61	8.0	8.1	8.3	9.4	6.3	4.1	11.7
27	18-00	282	.93	1.18	1.55	1.80	.57	8.0	8.1	7.3	7.8	6.3	4.5	12.5
27	21-00	267	.92	1.12	1.57	1.71	.58	8.3	8.5	8.3	8.6	6.7	4.5	14.8
28	00-00	283	.86	1.08	1.36	1.52	.55	7.8	7.8	7.8	8.6	6.3	4.4	12.5
28	03-00	296	.83	1.03	1.38	1.51	.53	7.9	8.2	7.6	7.0	6.1	4.2	12.5
28	06-00	298	.80	.98	1.23	1.32	.50	7.8	8.1	8.9	8.6	6.0	4.0	11.7
28	09-00	295	.75	.95	1.25	1.34	.49	7.7	8.0	7.8	7.0	6.1	4.2	14.1
28	12-00	276	.81	1.02	1.26	1.41	.51	8.0	8.0	8.1	6.2	6.5	4.8	12.5
28	15-00	287	.97	1.22	1.50	1.54	.58	8.4	8.5	8.1	7.0	6.3	4.0	12.5
28	18-00	294	.83	1.05	1.33	1.49	.51	8.0	8.2	8.6	8.6	6.1	3.9	11.7
28	21-00	271	.73	.89	1.12	1.12	.47	8.2	8.2	8.3	7.8	6.6	4.4	12.5
29	00-00	282	.76	.96	1.24	1.31	.47	8.4	8.2	8.1	7.8	6.3	4.2	12.5
29	03-00	282	.90	1.16	1.36	1.37	.56	7.9	8.0	8.1	7.8	6.4	4.7	11.7
29	06-00	271	.90	1.15	1.40	1.52	.55	8.2	8.2	8.3	7.8	6.6	4.6	11.7
29	09-00	273	.63	.77	.94	1.02	.40	8.3	8.3	8.6	8.6	6.6	3.9	14.1
29	12-00	288	.68	.88	1.13	1.21	.41	8.2	8.4	8.1	8.6	6.2	3.9	14.8
29	15-00	285	.89	1.10	1.32	1.37	.57	7.8	8.0	8.3	7.0	6.3	4.4	12.5
29	18-00	287	.75	.95	1.13	1.26	.48	7.7	8.0	7.8	7.8	6.2	4.2	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)
29	21-00	266	.67	.86	1.07	1.14	.43	8.3	8.1	8.1	7.8	6.7	4.3	13.3
30	00-00	280	.61	.76	.95	.98	.38	8.4	8.1	8.1	8.6	6.4	4.2	15.6
30	03-00	277	.83	1.08	1.34	1.37	.52	8.1	8.1	8.3	7.8	6.5	4.4	11.7
30	06-00	290	.63	.77	.96	1.00	.41	8.4	8.5	8.9	10.2	6.2	4.1	15.6
30	09-00	268	.53	.66	.79	.81	.34	8.8	9.5	8.9	7.0	6.7	4.2	17.2
30	12-00	255	.58	.73	.85	.89	.36	9.6	11.2	9.9	8.6	7.0	4.0	18.0
30	15-00	281	.72	.91	1.17	1.38	.46	8.2	8.7	8.1	7.8	6.4	4.0	15.6
30	18-00	339	.72	.89	1.06	1.08	.47	6.9	7.7	9.4	11.7	5.3	3.5	17.2
30	21-00	309	.61	.76	.90	.92	.39	7.9	8.4	8.3	9.4	5.8	3.8	14.8
31	00-00	289	.63	.78	.96	1.01	.40	8.4	9.8	7.6	5.5	6.2	4.0	18.8
31	03-00	293	.66	.82	1.03	1.10	.43	7.7	8.3	8.1	9.4	6.1	4.1	15.6
31	06-00	276	.63	.78	.96	.97	.41	9.0	9.6	10.9	10.9	6.5	3.9	18.8
31	09-00	266	.60	.78	.94	.95	.37	9.8	12.3	13.3	14.8	6.7	3.8	19.5
31	12-00	349	.59	.75	.99	1.05	.37	7.4	9.2	10.4	7.8	5.1	3.2	19.5
31	15-00	381	.70	.87	1.08	1.18	.46	6.2	7.0	8.8	11.7	4.7	3.1	14.8
31	18-00	384	.73	.89	1.17	1.23	.48	6.2	6.5	8.2	7.0	4.7	3.2	13.3
31	21-00	332	.65	.81	1.10	1.17	.42	7.2	8.3	11.2	12.5	5.4	3.7	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)
01	00-00	297	.60	.72	.88	.92	.39	8.2	9.6	10.2	11.7	6.0	3.7	14.8
01	03-00	293	.59	.73	.94	.99	.38	8.5	9.6	12.2	12.5	6.1	3.9	14.8
01	06-00	279	.62	.77	1.00	1.12	.40	8.9	9.5	12.5	12.5	6.4	4.3	15.6
01	09-00	290	.61	.76	.95	1.00	.40	8.1	9.0	7.3	7.8	6.2	4.2	16.4
01	12-00	262	.59	.73	.91	.93	.39	9.2	10.0	9.4	9.4	6.9	4.3	15.6
01	15-00	284	.65	.84	1.02	1.05	.39	9.1	10.1	8.6	8.6	6.3	4.0	16.4
01	18-00	270	.63	.79	.99	1.02	.40	9.4	10.3	11.2	13.3	6.6	3.9	14.1
01	21-00	157	.58	.75	.91	.95	.36	9.3	10.3	9.0	8.6	6.7	3.8	14.1
02	00-00	366	.59	.75	.95	.98	.36	7.4	8.8	9.2	7.8	4.9	2.8	13.3
02	03-00	407	.69	.91	1.17	1.20	.46	5.6	6.4	6.6	7.8	4.4	3.1	13.3
02	06-00	410	.84	1.05	1.35	1.39	.55	5.7	5.6	6.1	4.7	4.4	3.3	13.3
02	09-00	424	1.08	1.35	1.76	1.88	.71	4.7	4.5	4.7	4.7	4.2	3.4	10.9
02	12-00	404	1.50	1.90	2.50	2.60	.95	5.2	5.2	5.3	5.5	4.4	3.7	8.6
02	15-00	362	1.81	2.19	2.66	2.79	1.19	5.6	5.7	5.9	6.2	4.9	3.9	10.2
02	18-00	321	2.19	2.70	3.46	4.10	1.40	6.6	6.4	6.5	7.0	5.6	4.4	9.4
02	21-00	285	2.18	2.76	3.57	3.90	1.41	7.3	7.5	7.8	7.8	6.3	4.8	10.2
03	00-00	300	2.01	2.56	3.49	3.70	1.26	7.2	7.3	7.8	7.8	6.0	4.4	11.7
03	03-00	289	1.84	2.29	2.90	3.22	1.16	7.6	7.6	8.3	8.6	6.2	4.4	10.9
03	06-00	299	1.96	2.53	3.22	3.40	1.23	7.5	7.6	6.5	5.5	6.0	4.5	10.9
03	09-00	293	1.78	2.24	2.76	2.94	1.12	7.2	7.3	7.6	7.8	6.1	4.6	10.9
03	12-00	282	1.83	2.27	2.75	2.88	1.19	7.6	7.8	8.3	7.8	6.4	4.5	10.9
03	15-00	312	1.71	2.12	2.64	2.73	1.08	7.2	7.4	7.3	7.0	5.7	4.0	10.9
03	18-00	329	1.53	1.98	2.49	2.56	.96	6.8	7.4	7.8	7.8	5.4	4.0	13.3
03	21-00	334	1.69	2.12	2.45	2.49	1.10	6.6	6.8	6.2	6.2	5.4	4.1	11.7
04	00-00	335	1.74	2.12	2.69	2.97	1.13	6.4	6.4	5.5	5.5	5.3	4.0	10.2
04	03-00	295	2.37	2.82	3.43	3.76	1.56	7.2	7.3	8.1	7.8	6.1	4.4	12.5
04	06-00	298	2.85	3.55	4.43	4.88	1.75	7.4	7.6	7.8	7.8	6.0	4.6	10.9
04	09-00	269	2.93	3.60	4.30	4.76	1.84	8.1	8.1	6.8	6.2	6.7	4.8	12.5
04	12-00	282	2.56	3.21	4.06	4.95	1.58	8.1	8.4	7.3	7.0	6.3	4.6	12.5
04	18-00	292	1.74	2.10	2.44	2.54	1.11	7.7	7.7	7.8	7.8	6.2	4.1	11.7
04	21-00	276	1.64	2.04	2.65	3.03	1.03	8.1	8.0	7.8	7.8	6.5	4.5	10.9
05	00-00	276	1.74	2.16	2.81	3.08	1.10	7.8	7.9	7.3	7.0	6.5	4.5	11.7
05	03-00	321	1.77	2.21	2.95	2.97	1.09	7.1	7.1	6.5	7.8	5.6	4.2	10.9
05	06-00	307	1.71	2.12	2.59	2.68	1.11	6.7	6.5	6.8	7.8	5.8	4.2	10.9
05	09-00	321	1.47	1.80	2.14	2.18	.95	6.6	6.5	6.5	6.2	5.6	4.0	9.4
05	12-00	339	1.17	1.54	2.21	2.72	.72	6.8	7.2	7.0	7.0	5.3	3.7	10.2
05	15-00	332	1.11	1.36	1.61	1.67	.71	6.8	6.9	7.3	7.0	5.4	3.8	10.9
05	18-00	312	1.02	1.27	1.54	1.63	.65	6.7	6.7	7.3	7.0	5.7	3.9	10.9
05	21-00	348	1.00	1.27	1.69	1.84	.65	6.2	6.0	5.2	4.7	5.2	4.0	11.7
06	00-00	349	.93	1.17	1.61	1.64	.59	6.1	6.0	6.2	7.0	5.1	4.0	8.6
06	03-00	368	.83	1.06	1.33	1.42	.51	6.0	6.1	6.2	7.0	4.9	3.8	9.4
06	06-00	363	.67	.87	1.11	1.27	.42	6.1	5.8	5.9	6.2	4.9	3.7	10.9
06	09-00	383	.65	.82	1.04	1.12	.41	5.7	5.8	5.1	5.5	4.7	3.5	10.2
06	12-00	389	.60	.74	.93	1.03	.39	5.6	5.8	5.9	4.7	4.6	3.5	11.7
06	15-00	397	.66	.84	1.14	1.21	.42	5.8	5.6	6.4	6.2	4.5	3.3	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)
06	18-00	378	.62	.76	.94	1.06	.40	5.8	5.7	5.5	6.2	4.7	3.4	11.7
06	21-00	357	.61	.76	.95	.98	.40	5.9	5.9	6.1	6.2	5.0	4.0	14.1
07	00-00	324	.93	1.13	1.30	1.37	.60	6.6	6.6	6.0	5.5	5.5	4.1	13.3
07	03-00	388	.65	.82	1.06	1.16	.42	6.1	6.0	5.7	6.2	4.6	3.2	16.4
07	06-00	402	.62	.77	.91	1.02	.41	5.9	6.7	8.0	9.4	4.5	3.1	12.5
07	09-00	379	.63	.79	.98	1.07	.41	6.2	6.3	6.8	8.6	4.7	3.3	14.1
07	15-00	385	.75	.91	1.16	1.36	.49	5.8	5.8	5.9	6.2	4.6	3.5	10.9
07	18-00	378	.84	1.03	1.30	1.43	.56	5.8	6.2	5.5	4.7	4.7	3.5	9.4
07	21-00	384	.84	1.02	1.21	1.26	.55	5.9	6.1	5.9	5.5	4.7	3.4	13.3
08	00-00	369	.77	.93	1.11	1.19	.51	5.9	6.3	8.6	7.0	4.9	3.4	14.8
08	03-00	337	.72	.89	1.06	1.10	.47	7.3	8.5	12.2	10.9	5.3	3.7	16.4
08	06-00	335	.79	.98	1.25	1.39	.52	7.3	8.2	9.9	12.5	5.4	3.6	15.6
08	09-00	353	.77	.92	1.11	1.36	.50	6.6	7.6	6.8	5.5	5.1	3.5	15.6
08	12-00	374	.89	1.12	1.37	1.46	.59	5.8	6.6	8.6	10.9	4.8	3.5	16.4
08	15-00	370	.90	1.11	1.38	1.48	.58	6.7	7.9	11.1	10.9	4.9	3.3	16.4
08	18-00	322	.87	1.11	1.35	1.38	.55	8.5	12.2	14.8	14.8	5.6	3.2	18.0
08	21-00	311	.83	1.06	1.34	1.41	.53	8.3	11.6	13.5	14.1	5.7	3.4	18.0
09	00-00	265	.89	1.16	1.54	1.64	.56	10.2	12.5	15.1	16.4	6.7	3.8	20.3
09	03-00	295	.85	1.06	1.29	1.32	.56	8.9	12.3	13.0	11.7	6.0	3.5	21.9
09	06-00	281	.98	1.32	1.67	1.70	.60	10.0	14.9	17.4	18.8	6.4	3.4	18.8
09	09-00	229	1.27	1.70	2.07	2.16	.73	13.9	16.8	16.8	17.2	7.8	3.6	19.5
09	12-00	290	1.30	1.67	2.14	2.20	.84	9.8	14.1	17.4	18.8	6.2	3.5	18.8
09	15-00	282	1.62	2.11	2.99	3.04	1.02	8.9	10.8	13.8	6.2	6.3	3.9	19.5
09	18-00	313	1.73	2.16	2.97	3.28	1.11	7.2	7.9	8.1	6.2	5.7	4.1	16.4
09	21-00	312	1.92	2.42	3.10	3.52	1.23	7.2	7.8	7.3	6.2	5.7	4.2	18.8
10	00-00	287	1.93	2.43	3.01	3.43	1.26	8.3	8.0	9.4	7.8	6.2	4.1	18.0
10	03-00	294	1.65	2.12	2.59	2.63	1.03	7.6	8.7	8.3	8.6	6.1	4.1	14.8
10	06-00	254	1.74	2.21	2.79	3.03	1.09	9.0	10.8	9.4	9.4	7.1	4.5	18.0
10	09-00	252	1.63	2.04	2.54	2.76	1.04	9.3	10.3	10.7	8.6	7.1	5.0	18.0
10	12-00	209	1.70	2.11	2.63	2.75	1.09	12.4	14.1	16.0	16.4	8.5	4.7	18.8
10	15-00	234	1.52	1.88	2.61	2.68	.98	10.3	11.2	9.8	13.3	7.6	4.6	18.0
10	18-00	244	1.33	1.71	2.30	2.48	.83	10.4	13.2	11.3	14.1	7.3	4.7	18.0
10	21-00	202	1.59	2.00	2.71	2.87	.99	12.2	13.9	15.2	14.1	8.9	5.1	18.0
11	00-00	207	1.55	1.99	2.65	2.69	.95	12.5	13.7	15.2	13.3	8.7	5.3	18.8
11	03-00	205	1.49	1.93	2.74	2.85	.90	12.4	14.4	14.1	13.3	8.7	5.0	18.0
11	06-00	238	1.18	1.48	1.82	1.84	.71	11.0	12.2	15.6	15.6	7.5	4.6	18.0
11	09-00	205	1.39	1.74	2.16	2.21	.84	12.7	14.4	14.8	14.8	8.7	4.8	18.0
11	12-00	289	1.13	1.42	1.76	1.91	.70	9.4	11.4	13.8	13.3	6.2	3.5	18.0
11	15-00	262	1.13	1.46	1.94	2.18	.72	9.9	11.6	14.6	14.1	6.8	3.6	17.2
11	18-00	250	1.10	1.36	1.66	1.71	.65	11.8	13.0	13.5	14.8	7.2	3.6	18.8
11	21-00	236	1.08	1.40	1.79	1.82	.65	11.2	12.4	12.5	12.5	7.6	4.1	18.0
12	00-00	230	.97	1.26	1.51	1.56	.60	11.2	13.5	12.5	12.5	7.8	4.6	18.0
12	03-00	250	1.03	1.29	1.66	1.85	.62	10.5	11.7	12.2	12.5	7.1	4.0	16.4
12	06-00	256	1.08	1.39	1.79	2.09	.66	10.7	13.3	15.4	14.1	7.0	3.9	18.0
12	09-00	269	.97	1.25	1.70	1.85	.59	9.9	10.9	12.2	12.5	6.7	3.7	16.4

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)
12	12-00	262	.92	1.18	1.53	1.78	.56	10.0	11.4	11.5	11.7	6.8	3.5	16.4
12	15-00	263	.99	1.24	1.57	1.85	.63	9.8	10.7	12.2	12.5	6.8	3.8	16.4
12	18-00	185	.85	1.09	1.41	1.46	.53	9.8	11.0	10.9	10.2	6.7	3.8	15.6
12	21-00	248	.81	1.00	1.22	1.25	.51	10.3	11.4	13.3	13.3	7.2	4.1	16.4
13	00-00	253	.70	.92	1.16	1.21	.44	10.0	11.3	11.2	8.6	7.1	4.2	16.4
13	03-00	269	.70	.86	1.12	1.19	.44	9.4	10.7	10.9	9.4	6.7	4.0	15.6
13	09-00	235	.65	.83	.99	1.02	.40	9.6	9.9	10.9	10.2	6.9	3.6	14.8
13	12-00	304	.66	.83	.99	1.04	.40	8.6	9.5	10.7	9.4	5.9	3.4	14.8
13	15-00	302	.59	.73	.89	.92	.36	8.5	9.1	10.2	10.2	5.9	3.7	13.3
13	18-00	314	.59	.75	.95	1.07	.37	8.4	10.1	10.7	10.9	5.7	3.3	15.6
13	21-00	301	.58	.72	.85	.86	.36	9.2	10.7	10.9	9.4	5.9	3.2	14.8
14	00-00	304	.58	.72	.97	1.06	.36	8.1	8.7	9.9	9.4	5.9	3.9	15.6
14	03-00	289	.57	.70	.89	.93	.37	7.9	8.1	8.9	8.6	6.2	4.1	13.3
14	06-00	290	.58	.74	.91	.94	.36	8.7	9.6	10.2	9.4	6.2	3.9	13.3
14	09-00	300	.58	.71	.84	.89	.36	9.1	9.7	10.4	10.2	6.0	3.2	14.1
14	12-00	328	.56	.71	.93	1.05	.35	8.1	9.2	7.8	8.6	5.5	3.0	15.6
14	15-00	296	.58	.71	.91	1.06	.35	8.0	8.2	7.6	7.0	5.7	3.4	14.1
15	00-00	276	.58	.73	.97	1.06	.37	8.5	8.6	9.1	10.2	6.5	4.3	17.2
15	03-00	277	.62	.77	.94	1.00	.39	8.2	8.4	7.8	8.6	6.5	4.4	14.8
15	06-00	287	.56	.70	.89	1.00	.37	8.1	8.4	9.9	9.4	6.2	4.3	14.1
15	09-00	268	.53	.65	.79	.82	.33	9.0	9.2	8.1	7.0	6.7	4.1	13.3
15	12-00	257	.55	.69	.85	.88	.35	9.6	10.2	9.9	10.9	7.0	3.9	15.6
15	15-00	245	.59	.70	.95	.97	.39	9.0	9.4	9.4	8.6	7.3	4.4	14.8
15	18-00	274	.66	.83	1.07	1.12	.41	9.1	9.1	9.9	10.9	6.5	3.9	14.1
15	21-00	267	.75	.97	1.19	1.32	.45	9.4	9.8	9.9	9.4	6.7	3.9	12.5
16	00-00	235	.73	.90	1.19	1.19	.46	9.7	9.5	9.0	8.6	7.6	4.8	13.3
16	03-00	232	.69	.86	1.11	1.16	.44	9.5	9.5	9.0	9.4	7.7	4.7	15.6
16	06-00	239	.75	.92	1.13	1.18	.48	9.2	9.6	9.8	8.6	7.4	5.0	14.1
16	09-00	223	.80	.99	1.18	1.21	.51	9.5	9.5	9.0	9.4	8.0	5.1	14.1
16	12-00	220	.82	1.01	1.25	1.25	.53	9.5	9.4	9.4	9.4	8.2	4.7	14.1
16	15-00	252	.82	1.01	1.21	1.22	.51	8.9	9.2	9.9	10.9	7.1	4.0	14.8
16	18-00	318	.78	.97	1.20	1.27	.48	7.9	8.6	8.3	6.2	5.6	3.2	11.7
16	21-00	251	.77	.96	1.21	1.31	.48	9.1	9.1	9.4	9.4	7.1	4.1	13.3
17	00-00	300	.64	.82	1.01	1.05	.40	8.3	8.8	9.4	7.0	6.0	3.3	14.1
17	03-00	255	.67	.84	1.04	1.07	.42	8.7	8.6	8.6	7.8	7.0	4.1	13.3
17	06-00	270	.68	.89	1.19	1.21	.42	8.6	9.1	8.3	6.2	6.6	4.5	12.5
17	09-00	294	.63	.80	1.04	1.13	.38	8.6	9.2	9.9	8.6	6.1	3.7	12.5
17	12-00	331	.64	.81	1.08	1.09	.39	8.1	9.0	8.6	8.6	5.4	3.2	12.5
17	15-00	349	.73	.94	1.24	1.41	.45	7.5	8.6	8.3	8.6	5.1	3.0	11.7
17	18-00	333	.69	.87	1.14	1.33	.44	7.2	7.7	7.6	7.8	5.4	3.6	14.1
17	21-00	359	.63	.82	1.06	1.14	.39	7.2	8.2	8.0	8.6	5.0	3.4	13.3
18	00-00	299	.60	.73	.98	.99	.36	8.4	8.9	8.9	8.6	6.0	3.6	12.5
18	03-00	294	.62	.79	1.04	1.28	.38	8.1	8.2	7.6	7.8	6.1	3.8	14.1
18	06-00	301	.67	.85	1.09	1.21	.41	8.3	9.9	13.0	13.3	6.0	3.5	19.5
18	09-00	289	.67	.84	1.02	1.08	.42	9.3	10.8	6.5	7.0	6.2	3.5	21.1

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)
18	12-00	275	.63	.80	.99	1.02	.40	9.2	11.3	13.0	14.8	6.5	3.4	18.0
18	15-00	189	.82	1.01	1.22	1.24	.51	14.2	15.5	15.2	14.8	9.5	4.1	18.0
19	03-00	246	.87	1.19	1.71	1.84	.49	11.7	14.1	14.5	14.8	7.3	3.6	16.4
19	06-00	206	.94	1.17	1.51	1.59	.57	12.5	12.9	12.1	11.7	8.6	4.6	18.0
19	09-00	225	.90	1.14	1.54	1.68	.53	11.6	12.2	11.7	10.2	8.0	4.2	17.2
19	12-00	259	.93	1.18	1.43	1.54	.56	10.5	11.5	11.5	10.2	6.9	3.3	14.8
19	15-00	201	1.32	1.61	1.88	1.88	.83	11.1	10.9	10.9	11.7	8.9	4.8	15.6
19	18-00	259	1.08	1.33	1.56	1.60	.67	9.8	9.9	9.1	8.6	6.9	3.5	15.6
20	18-00	316	.65	.85	1.24	1.49	.40	8.3	9.2	9.4	9.4	5.7	3.6	13.3
20	21-00	287	.71	.90	1.17	1.26	.44	8.3	8.6	8.3	8.6	6.2	3.9	12.5
21	00-00	270	.68	.86	1.12	1.29	.43	8.7	8.8	9.4	9.4	6.6	4.3	13.3
21	03-00	153	.63	.78	.99	.99	.39	9.1	8.9	9.0	9.4	7.3	4.7	14.8
21	06-00	261	.54	.69	.87	.91	.35	8.4	8.6	8.9	8.6	6.9	4.6	13.3
21	09-00	273	.50	.62	.79	.83	.32	8.4	8.8	9.1	9.4	6.6	4.5	15.6
21	12-00	252	.51	.63	.84	.89	.33	9.0	9.3	8.3	8.6	7.1	4.5	15.6
21	15-00	390	.52	.67	.85	.92	.33	6.7	8.1	7.2	8.6	4.6	3.0	13.3
21	18-00	434	.51	.65	.85	.90	.33	5.8	7.5	9.4	8.6	4.1	2.7	10.9
21	21-00	320	.50	.65	.83	1.02	.30	8.4	9.1	8.9	10.9	5.6	2.9	16.4
22	03-00	253	.41	.50	.60	.61	.26	8.5	9.3	10.2	10.2	6.0	3.8	14.1
22	06-00	285	.47	.58	.77	.84	.29	8.4	8.6	7.3	7.8	6.3	3.7	14.1
22	09-00	313	.40	.49	.64	.68	.26	8.0	9.4	9.4	7.8	5.7	3.7	15.6
22	12-00	335	.42	.52	.64	.67	.27	7.1	8.2	7.8	7.8	5.3	3.4	14.1
22	15-00	350	.48	.60	.71	.77	.30	7.6	8.6	8.2	8.6	5.1	3.0	12.5
22	18-00	250	.46	.57	.68	.70	.29	7.5	8.6	10.2	8.6	5.5	3.4	12.5
22	21-00	271	.39	.49	.59	.66	.26	7.3	7.3	7.0	7.0	5.4	3.6	14.1
23	00-00	328	.42	.52	.68	.76	.27	7.2	7.4	8.9	9.4	5.4	3.6	12.5
23	03-00	374	.40	.50	.61	.69	.26	6.7	7.6	7.2	10.2	4.8	3.3	10.9
23	06-00	332	.40	.48	.62	.63	.26	6.9	7.1	7.3	7.8	5.4	3.8	12.5
23	09-00	367	.36	.44	.54	.56	.23	6.1	6.4	7.0	4.7	4.9	3.5	13.3
23	12-00	350	.40	.51	.61	.66	.25	6.5	6.7	6.2	5.5	5.1	3.6	12.5
23	15-00	347	.38	.47	.61	.67	.25	6.5	6.7	7.6	7.0	5.2	3.5	14.1
23	18-00	388	.36	.44	.58	.69	.23	6.1	6.0	6.2	5.5	4.6	3.5	12.5
23	21-00	369	.37	.45	.54	.61	.24	6.5	7.1	8.2	9.4	4.9	3.5	11.7
24	00-00	365	.36	.42	.52	.54	.24	6.1	6.3	6.1	6.2	4.9	3.6	13.3
24	03-00	205	.33	.43	.58	.58	.22	6.3	6.5	5.9	5.5	5.0	3.6	11.7
24	06-00	345	.34	.40	.52	.54	.23	6.7	6.6	7.0	8.6	5.2	3.7	15.6
24	09-00	386	.39	.48	.59	.67	.24	6.1	5.6	5.5	5.5	4.7	3.5	14.8
24	12-00	381	.39	.49	.60	.62	.25	5.9	6.3	5.7	5.5	4.7	3.4	11.7
24	15-00	384	.36	.47	.66	.78	.24	6.1	6.8	8.6	8.6	4.7	3.4	11.7
24	18-00	380	.35	.43	.59	.67	.24	6.1	6.9	7.6	6.2	4.7	3.3	14.1
24	21-00	185	.36	.44	.58	.59	.24	6.3	6.6	6.6	8.6	5.0	3.5	12.5
25	00-00	301	.34	.41	.53	.58	.22	6.6	8.0	12.2	14.1	5.0	3.3	14.8
25	03-00	331	.33	.42	.55	.58	.22	7.2	8.3	13.3	14.1	5.4	3.5	16.4
25	06-00	232	.37	.47	.56	.56	.24	7.1	8.7	10.2	10.2	5.4	3.5	14.1
25	09-00	332	.36	.47	.65	.68	.23	7.8	10.7	13.8	14.1	5.4	3.4	17.2

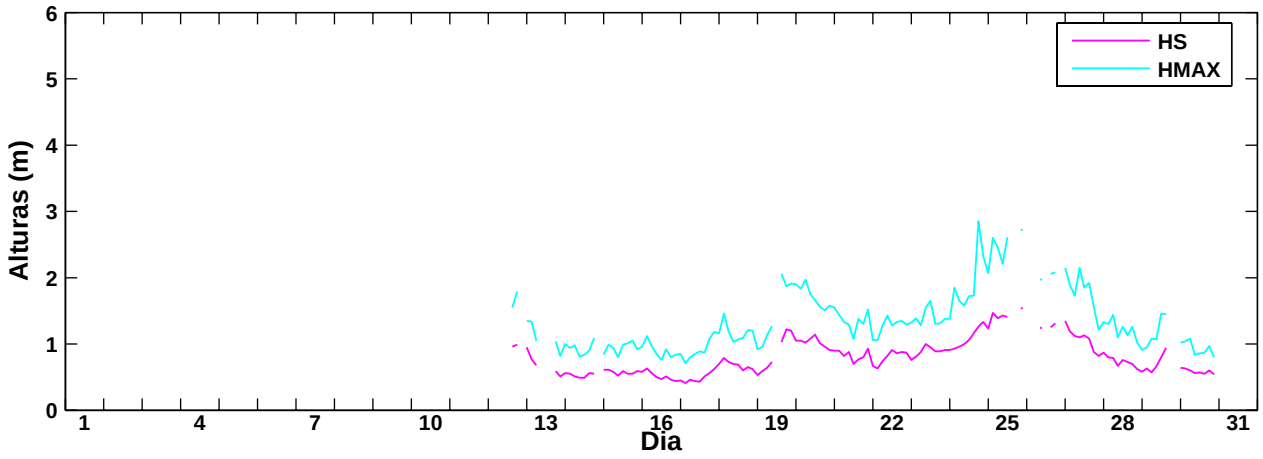
DIA	HORA	NA	HS (m)	H10 (m)	H100 (m)	HMAX (m)	HMED (m)	THS (s)	TH10 (s)	TH100 (s)	THMAX (s)	TZ (s)	TC (s)	TMAX (s)
25	12-00	326	.36	.47	.60	.66	.23	8.8	11.1	10.9	10.9	5.5	2.8	17.2
25	15-00	317	.38	.51	.65	.65	.23	9.0	12.2	12.8	13.3	5.6	3.2	18.0
25	18-00	375	.42	.54	.67	.72	.27	7.4	10.3	13.5	13.3	4.8	2.7	15.6
25	21-00	269	.43	.56	.70	.77	.27	9.7	12.0	13.5	14.8	6.6	3.7	16.4
26	00-00	271	.46	.58	.67	.67	.29	10.1	12.0	13.0	14.1	6.6	3.3	16.4
26	03-00	285	.48	.61	.73	.80	.30	9.4	12.0	12.5	12.5	6.3	3.2	15.6
26	06-00	377	.46	.59	.81	.96	.30	6.6	9.1	9.4	7.0	4.8	3.2	14.1
26	09-00	343	.55	.73	.90	.92	.35	7.8	10.8	13.8	14.1	5.2	3.1	14.8
26	12-00	328	.53	.69	.95	1.07	.33	8.9	11.3	13.5	12.5	5.5	3.0	15.6
26	15-00	394	.48	.61	.76	.81	.31	6.6	7.9	10.5	10.9	4.6	3.0	14.8
26	18-00	394	.48	.59	.73	.78	.31	6.5	8.7	12.3	12.5	4.5	3.0	14.1
26	21-00	367	.53	.68	.96	1.09	.34	7.0	8.9	10.7	8.6	4.9	3.1	14.1
27	00-00	469	.58	.73	.95	1.20	.38	5.2	6.1	8.9	7.8	3.8	2.6	13.3
27	03-00	349	.47	.60	.87	.89	.31	7.5	9.7	12.2	11.7	5.1	3.1	14.8
27	06-00	362	.43	.55	.74	.87	.28	7.1	9.2	9.8	14.1	4.9	3.1	14.8
27	09-00	317	.45	.56	.72	.77	.28	8.6	10.8	13.5	13.3	5.6	3.4	14.8
27	12-00	362	.43	.54	.68	.73	.28	6.7	7.7	7.8	8.6	5.0	3.3	14.8
27	15-00	293	.48	.60	.72	.76	.30	9.0	10.5	11.7	11.7	6.1	3.5	16.4
27	18-00	315	.46	.61	.76	.85	.28	8.7	10.9	13.3	12.5	5.7	3.3	15.6
27	21-00	282	.46	.58	.78	.89	.29	9.1	11.0	12.5	13.3	6.4	4.0	15.6
28	00-00	334	.42	.53	.63	.64	.27	7.7	9.2	8.9	10.2	5.4	3.4	15.6
28	03-00	280	.45	.58	.73	.79	.29	9.2	11.2	9.9	13.3	6.4	3.8	14.8
28	06-00	300	.41	.52	.71	.78	.27	8.7	10.8	11.2	10.9	5.9	3.4	15.6
28	09-00	283	.42	.55	.68	.72	.26	9.7	11.5	12.8	12.5	6.3	3.7	14.8
28	15-00	353	.40	.52	.69	.71	.24	8.1	10.1	10.4	11.7	5.1	2.9	14.8
28	18-00	354	.35	.43	.57	.66	.23	5.5	5.9	6.8	8.6	4.0	2.7	14.1
28	21-00	343	.37	.48	.61	.63	.23	8.1	9.4	10.9	10.9	5.2	3.1	13.3
29	00-00	303	.41	.52	.67	.69	.26	8.3	9.7	11.5	11.7	5.9	3.6	13.3
29	03-00	286	.38	.49	.62	.64	.24	9.3	11.0	11.5	11.7	6.3	3.6	14.1
29	06-00	168	.34	.45	.58	.60	.22	7.8	9.8	10.2	10.9	5.6	3.6	14.8
29	09-00	307	.39	.49	.71	.85	.24	9.1	10.1	10.9	11.7	5.8	3.3	13.3
29	12-00	332	.42	.55	.71	.73	.25	8.7	10.3	9.6	9.4	5.4	2.9	13.3
29	15-00	337	.42	.53	.61	.63	.27	8.0	9.7	10.4	10.2	5.3	3.0	14.1
30	06-00	405	1.05	1.30	1.58	1.68	.68	5.1	5.2	6.1	5.5	4.4	3.7	9.4
30	09-00	380	1.36	1.70	2.39	2.67	.88	5.5	5.4	5.5	4.7	4.7	3.8	12.5
30	12-00	341	1.65	2.01	2.39	2.40	1.06	6.1	6.2	5.5	5.5	5.2	4.1	10.9
30	15-00	328	1.76	2.20	2.67	2.92	1.11	6.4	6.1	6.0	5.5	5.5	4.3	10.9
30	18-00	339	1.68	2.10	2.56	2.77	1.07	6.2	6.2	5.7	6.2	5.3	4.2	9.4
30	21-00	379	1.38	1.69	2.14	2.30	.86	5.7	5.8	5.7	5.5	4.7	3.7	8.6

ANEXO B

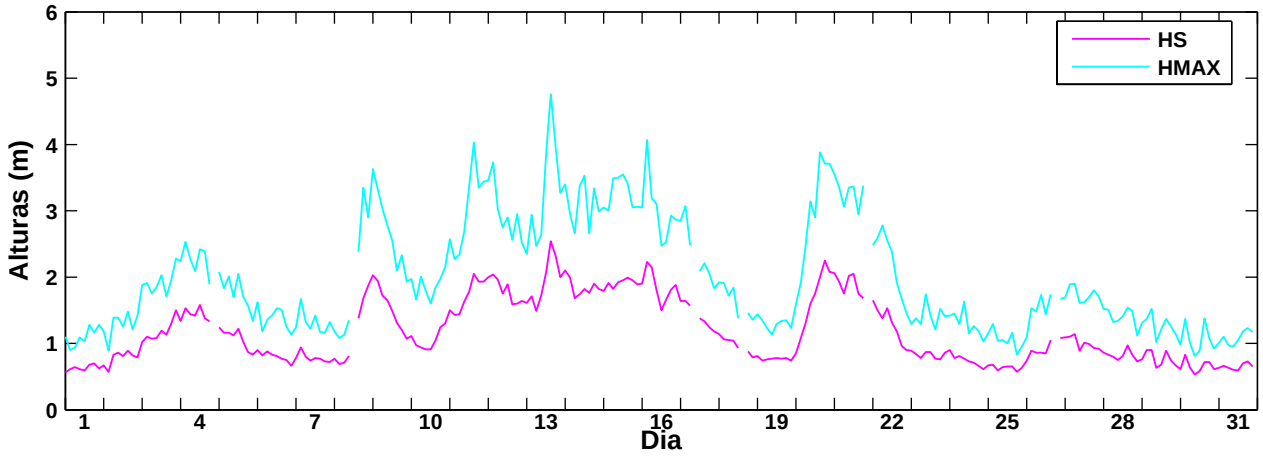
Gráficos temporais de HS, HMAX, TZ, TMAX, THS e THMAX

SMIGUEL

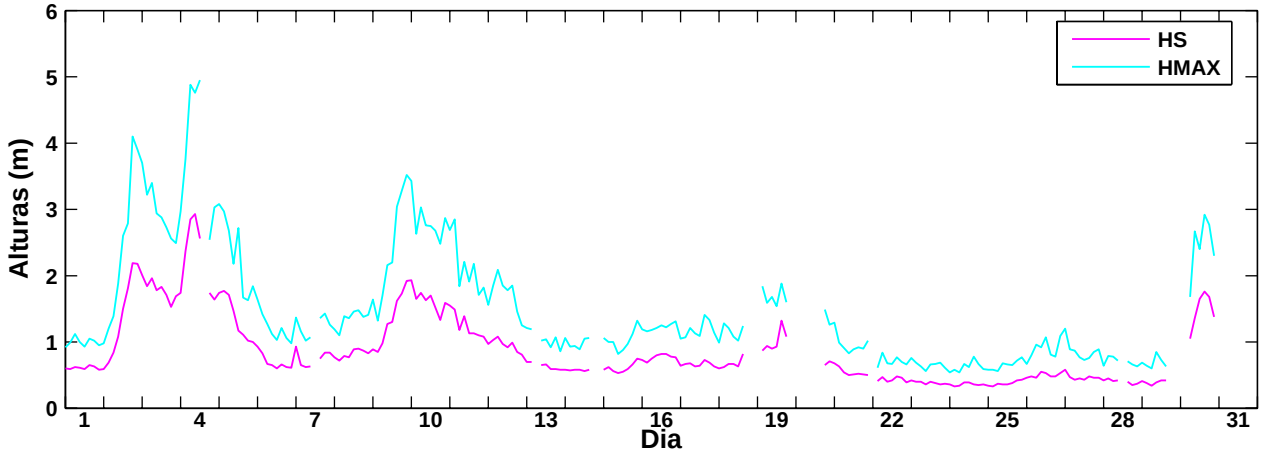
Séries temporais − Abril 2006

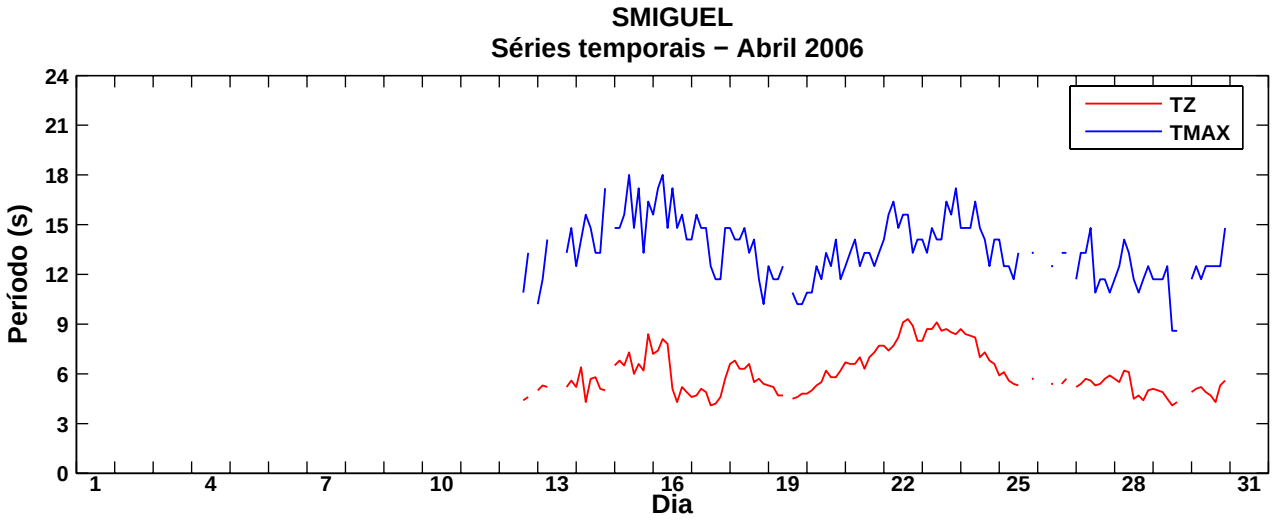


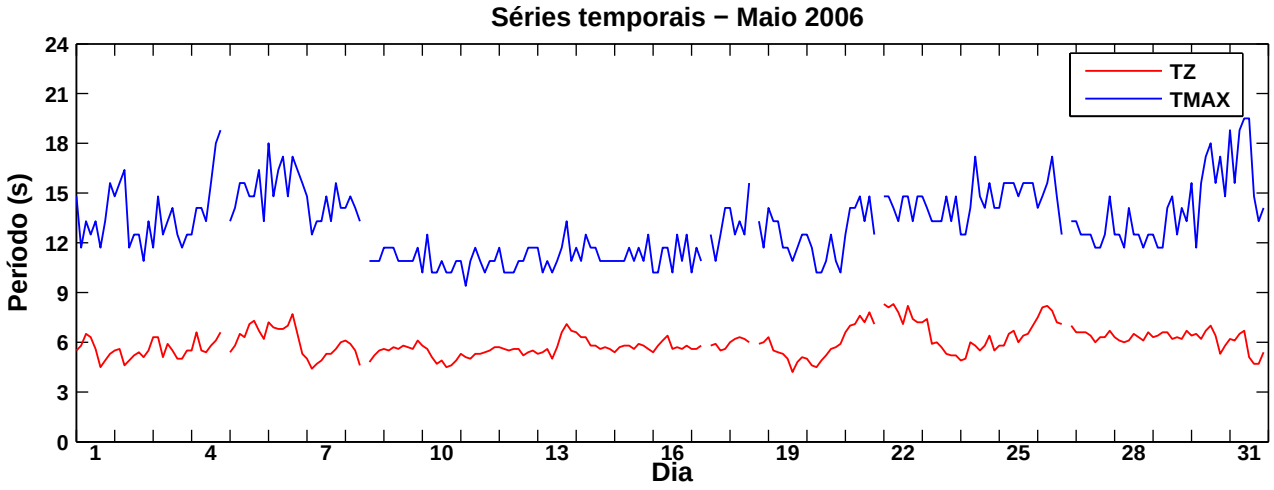
Séries temporais − Maio 2006

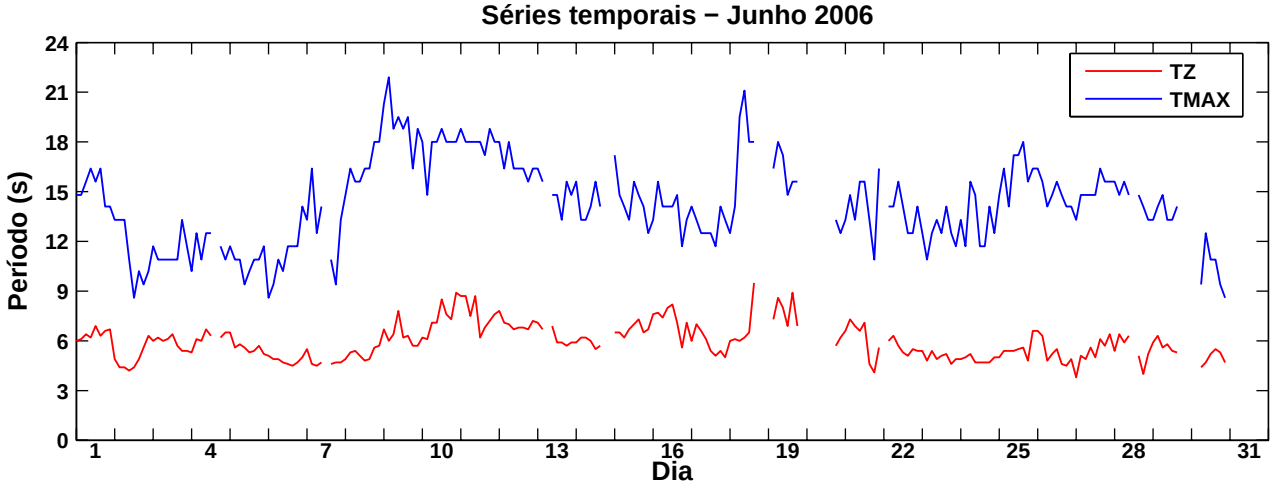


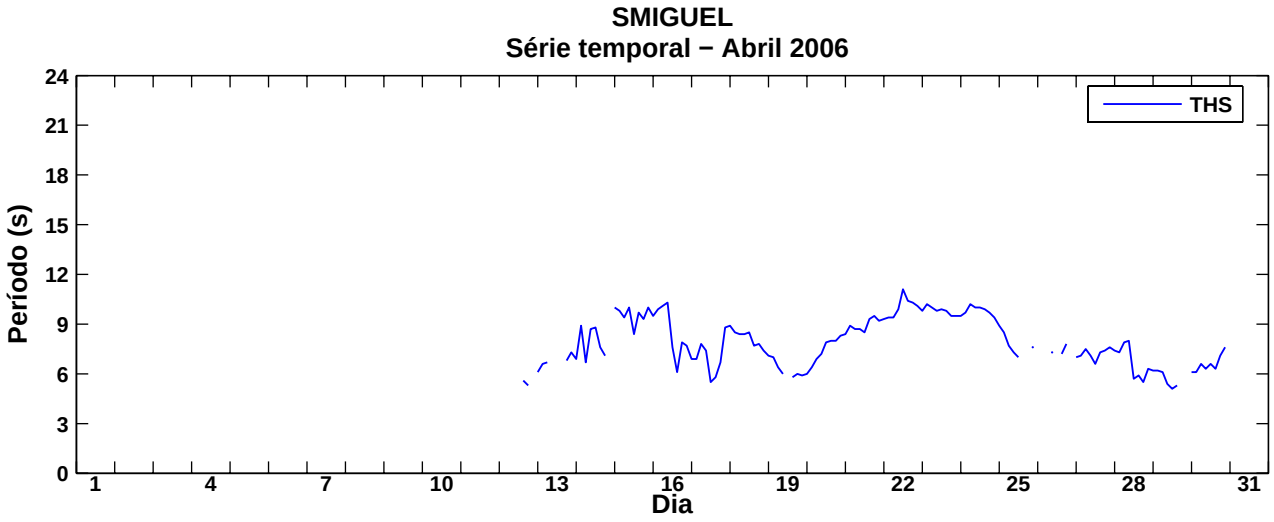
Séries temporais − Junho 2006

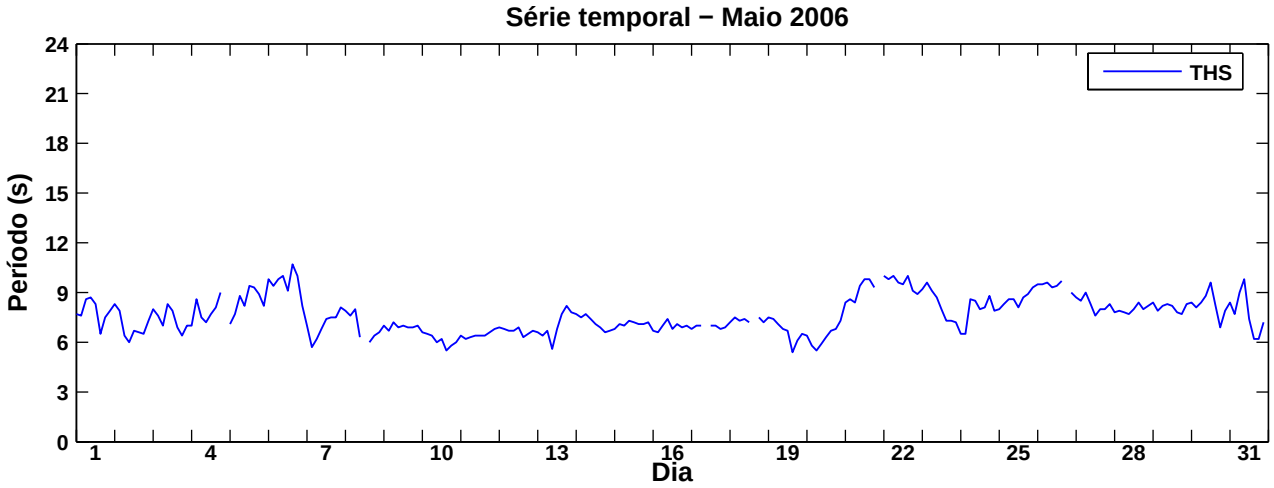


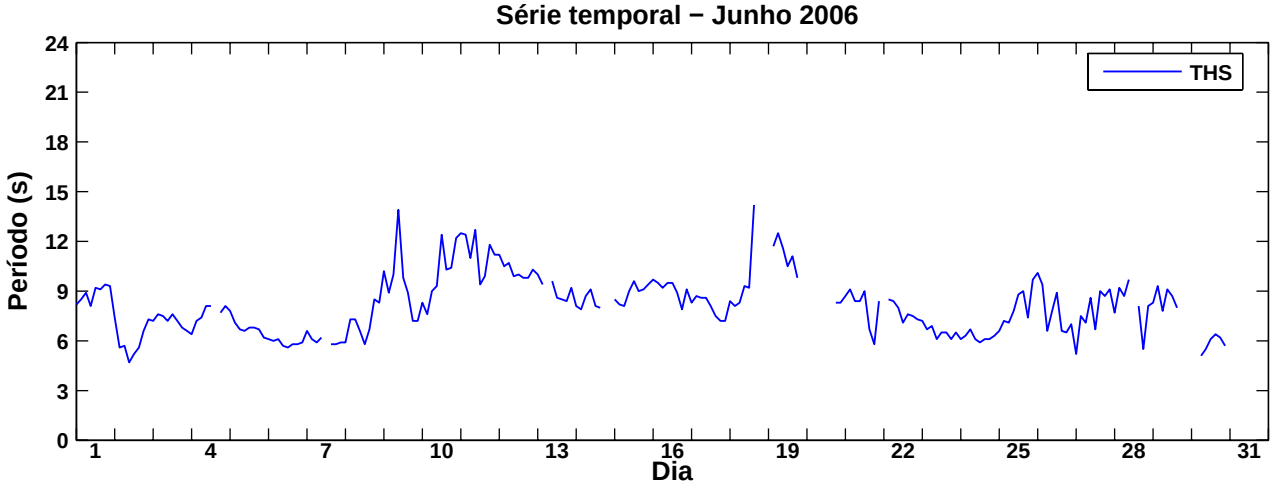

SMIGUEL
Séries temporais − Abril 2006
TZ
TMAX
Período (s)
Dia

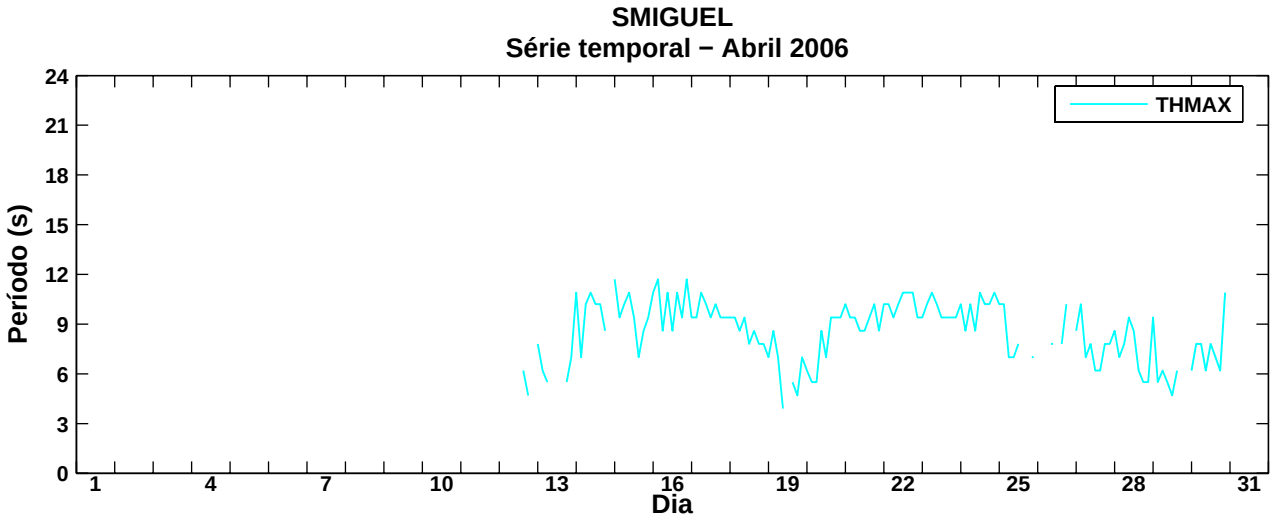

Séries temporais − Maio 2006
TZ
TMAX
Período (s)
Dia

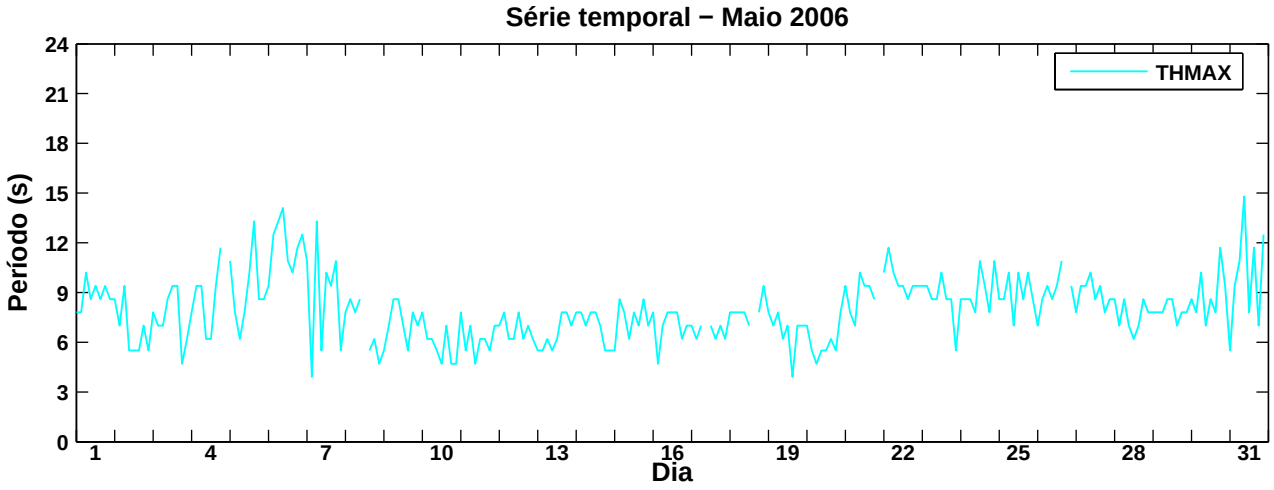

Séries temporais − Junho 2006
TZ
TMAX
Período (s)
Dia

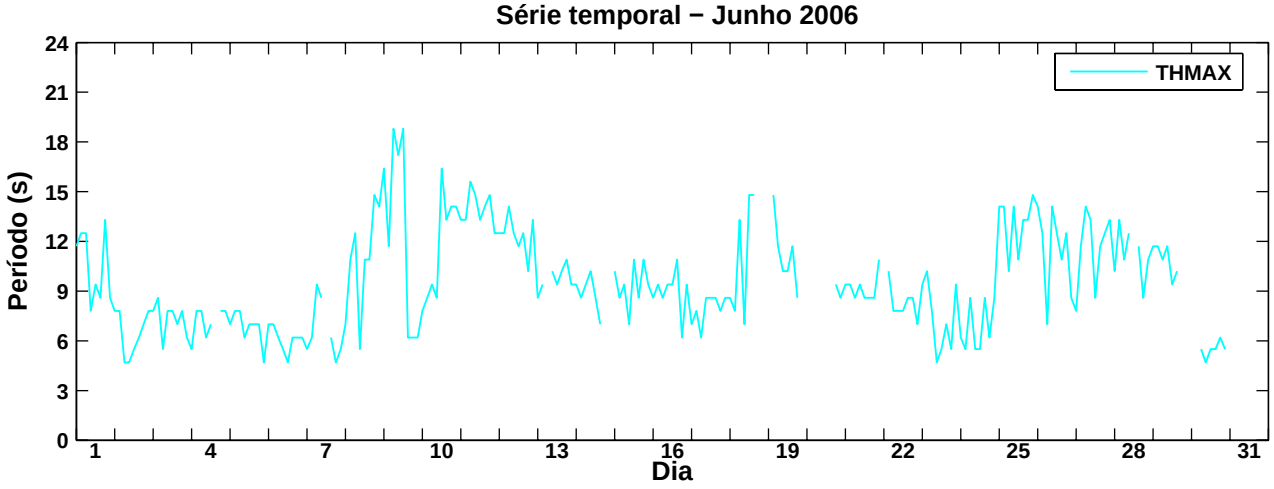

SMIGUEL
Série temporal − Abril 2006
THS
Período (s)
Dia
0
3
6
9
12
15
18
21
24
1
4
7
10
13
16
19
22
25
28
31


Série temporal − Maio 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 − Junho 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


SMIGUEL
Série temporal − Abril 2006
THMAX
Período (s)
Dia


Série temporal − Maio 2006
THMAX
Período (s)
Dia


Série temporal − Junho 2006
THMAX
Período (s)
Dia

ANEXO C

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

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- .5																				
.5- 1.0				1	2	5	3	8	13	2								34	25.8	9.3
1.0- 1.5		1	1	5	5	11	8	15	11	1								58	43.9	8.4
1.5- 2.0			2	2	4	5	4	4	6									27	20.5	8.0
2.0- 2.5				1		4	1		3									9	6.8	8.3
2.5- 3.0						2			2									4	3.0	8.8
3.0- 3.5																				
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	3	9	11	27	16	27	35	3								132	100	
%		.8	2.3	6.8	8.3	20.5	12.1	20.5	26.5	2.3								100		
MED		1.3	1.7	1.4	1.4	1.5	1.3	1.2	1.3	.9										

THMAX

MED 8.6 MIN 3.9 MAX 11.7

DES.PAD 1.8 ASSIM -.43 CURT 2.23

HMAX

MED 1.34 MIN .71 MAX 2.85

DES.PAD .46 ASSIM 1.05 CURT 3.67

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL MAI 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- .5																				
.5- 1.0						3	3	1	3				1					11	4.5	9.4
1.0- 1.5		1		8	2	26	19	12	9	3	3	2	1					86	35.5	8.6
1.5- 2.0		1	3	2	2	19	10	7	4	1		1						50	20.7	8.1
2.0- 2.5			2	4	7	7		4	3									27	11.2	7.2
2.5- 3.0			2	4	4	10	1	3	1	1								26	10.7	7.2
3.0- 3.5				4	4	14	4	1	1									28	11.6	7.3
3.5- 4.0				2	3	5		1										11	4.5	7.1
4.0- 4.5			1		1													2	.8	5.4
4.5- 5.0						1												1	.4	7.8
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	8	24	23	85	37	29	21	5	3	3	2					242	100	
%		.8	3.3	9.9	9.5	35.1	15.3	12.0	8.7	2.1	1.2	1.2	.8					100		
MED		1.5	2.5	2.3	2.6	2.1	1.6	1.8	1.5	1.6	1.2	1.5	1.2							

THMAX

MED 8.0 MIN 3.9 MAX 14.8

DES.PAD 1.9 ASSIM .62 CURT 3.67

HMAX

MED 1.99 MIN .81 MAX 4.76

DES.PAD .86 ASSIM .75 CURT 2.51

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL JUN 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- .5																				
.5- 1.0			1	5	3	9	15	8	13	7	5	5	7					78	35.6	9.9
1.0- 1.5			3	4	7	11	13	12	10	1	3	3	4					71	32.4	9.0
1.5- 2.0			2	1		3	1		2	3	5	1	2	1	1		1	23	10.5	11.1
2.0- 2.5				2	2								4			1	1	10	4.6	11.6
2.5- 3.0			1	3	2	8	2					3	1		1			21	9.6	8.7
3.0- 3.5				1	2	3	1	1										8	3.7	7.3
3.5- 4.0					1	3												4	1.8	7.4
4.0- 4.5						1												1	.5	7.0
4.5- 5.0					1	2												3	1.4	7.0
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			7	16	18	40	32	21	25	11	13	12	18	1	2	1	2	219	100	
%			3.2	7.3	8.2	18.3	14.6	9.6	11.4	5.0	5.9	5.5	8.2	.5	.9	.5	.9	100		
MED			1.5	1.7	2.0	2.0	1.2	1.1	1.0	1.1	1.3	1.5	1.4	1.8	2.2	2.2	2.0			

THMAX

MED 9.5 MIN 4.7 MAX 18.8

DES.PAD 3.0 ASSIM .56 CURT 2.74

HMAX

MED 1.48 MIN .54 MAX 4.95

DES.PAD .90 ASSIM 1.49 CURT 4.92

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- .5																				
.5- 1.0				1	12	3	2	9	16	2	1							46	34.8	8.9
1.0- 1.5			1	3	5	6	12	15	10									52	39.4	8.6
1.5- 2.0				4	2	4	6	5	4									25	18.9	8.1
2.0- 2.5						3	3	1	1									8	6.1	8.3
2.5- 3.0							1											1	.8	8.9
3.0- 3.5																				
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	8	19	16	24	30	31	2	1							132	100	
%			.8	6.1	14.4	12.1	18.2	22.7	23.5	1.5	.8							100		
MED			1.2	1.5	1.1	1.5	1.5	1.2	1.1	.9	.8									

TH100

MED 8.6 MIN 4.9 MAX 12.1

DES.PAD 1.7 ASSIM -.29 CURT 2.01

H100

MED 1.27 MIN .67 MAX 2.53

DES.PAD .43 ASSIM .96 CURT 3.37

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL MAI 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- .5																				
.5- 1.0						2	7	6	3			1						19	7.9	9.3
1.0- 1.5				3	8	18	30	21	7	4	2							93	38.4	8.6
1.5- 2.0				3	6	9	11	9	1	2								41	16.9	8.1
2.0- 2.5				5	9	9	3	2	2									30	12.4	7.2
2.5- 3.0				1	15	10	2	1	2									31	12.8	7.3
3.0- 3.5				1	7	9	3	2	1									23	9.5	7.5
3.5- 4.0					1	2	1											4	1.7	7.2
4.0- 4.5						1												1	.4	7.8
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				13	46	60	57	41	16	6	2	1						242	100	
%				5.4	19.0	24.8	23.6	16.9	6.6	2.5	.8	.4						100		
MED				2.0	2.4	2.1	1.5	1.5	1.7	1.3	1.3	.9								

TH100

MED 8.1 MIN 5.1 MAX 13.3

DES.PAD 1.5 ASSIM .51 CURT 2.98

H100

MED 1.86 MIN .79 MAX 4.43

DES.PAD .79 ASSIM .72 CURT 2.41

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- .5																				
.5- 1.0				5	7	15	13	16	19	5	8	10						98	44.7	9.6
1.0- 1.5				6	7	2	10	14	2	3	2	4	1	1				52	23.7	9.1
1.5- 2.0			1	1	2	2		1	1	2	6	2	2	3		1		24	11.0	11.4
2.0- 2.5				3	2	3				1			1		1	1		12	5.5	9.4
2.5- 3.0				4	3	4	4	2	1			1	1	2	1			23	10.5	9.1
3.0- 3.5					2	2	1	1										6	2.7	7.6
3.5- 4.0						1												1	.5	7.8
4.0- 4.5					1	2												3	1.4	7.3
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	19	24	31	28	34	23	11	16	17	5	6	2	2		219	100	
%			.5	8.7	11.0	14.2	12.8	15.5	10.5	5.0	7.3	7.8	2.3	2.7	.9	.9		100		
MED			1.8	1.6	1.7	1.7	1.3	1.2	.9	1.2	1.1	1.1	2.0	2.0	2.3	1.9				

TH100

MED 9.5 MIN 4.7 MAX 17.4

DES.PAD 2.8 ASSIM .55 CURT 2.62

H100

MED 1.38 MIN .52 MAX 4.43

DES.PAD .82 ASSIM 1.36 CURT 4.25

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL ABR 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- .5																				
.5- 1.0				1	16	13	11	21	10	1								73	55.3	8.4
1.0- 1.5				6	4	7	10	11	8	1								47	35.6	8.4
1.5- 2.0						6	2	2	2									12	9.1	8.4
2.0- 2.5																				
2.5- 3.0																				
3.0- 3.5																				
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				7	20	26	23	34	20	2								132	100	
%				5.3	15.2	19.7	17.4	25.8	15.2	1.5								100		
MED				1.2	.9	1.1	1.0	.9	1.0	.9										

TH10

MED 8.4 MIN 5.2 MAX 11.0

DES.PAD 1.5 ASSIM -.29 CURT 1.99

H10

MED 1.00 MIN .52 MAX 1.88

DES.PAD .33 ASSIM .75 CURT 2.77

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- .5																				
.5- 1.0				1	4	13	35	17	3	1	1							75	31.0	8.5
1.0- 1.5				3	10	14	25	13	6									71	29.3	8.2
1.5- 2.0				4	13	8	4	3	3									35	14.5	7.5
2.0- 2.5				1	20	20	2	2	1									46	19.0	7.2
2.5- 3.0					7	3	2	2										14	5.8	7.6
3.0- 3.5							1											1	.4	8.0
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				9	54	58	69	37	13	1	1							242	100	
%				3.7	22.3	24.0	28.5	15.3	5.4	.4	.4							100		
MED				1.5	1.9	1.7	1.2	1.2	1.3	.7	.8									

TH10

MED 7.9 MIN 5.5 MAX 12.3

DES.PAD 1.3 ASSIM .46 CURT 2.72

H10

MED 1.46 MIN .66 MAX 3.25

DES.PAD .61 ASSIM .66 CURT 2.19

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- .5				2	10	3	3	3	2	2								25	11.4	7.8
.5- 1.0				7	7	7	28	33	17	6	4							109	49.8	9.0
1.0- 1.5			1	2	9	1		3	2	8	7	3	2	1				39	17.8	10.1
1.5- 2.0				3	1	2			1	1		2	3		1			14	6.4	10.4
2.0- 2.5				1	6	9	3		3			1	1					24	11.0	8.2
2.5- 3.0					1	4												5	2.3	7.2
3.0- 3.5							1											1	.5	8.4
3.5- 4.0						1	1											2	.9	7.9
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			1	15	34	27	36	39	25	17	11	6	6	1	1			219	100	
%			.5	6.8	15.5	12.3	16.4	17.8	11.4	7.8	5.0	2.7	2.7	.5	.5			100		
MED			1.4	1.1	1.1	1.7	1.0	.8	.9	1.0	1.0	1.6	1.7	1.0	1.7					

TH10

MED 9.0 MIN 4.5 MAX 16.8

DES.PAD 2.3 ASSIM .56 CURT 3.02

H10

MED 1.09 MIN .40 MAX 3.60

DES.PAD .65 ASSIM 1.40 CURT 4.52

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL ABR 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- .5				1	2	5	2											10	7.6	7.5
.5- 1.0				9	20	15	16	20	11	1								92	69.7	8.0
1.0- 1.5				2	5	13	3	4	2									29	22.0	7.7
1.5- 2.0						1												1	.8	7.6
2.0- 2.5																				
2.5- 3.0																				
3.0- 3.5																				
3.5- 4.0																				
4.0- 4.5																				
4.5- 5.0																				
5.0- 5.5																				
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6.0- 6.5																				
6.5- 7.0																				
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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	27	34	21	24	13	1								132	100	
%				9.1	20.5	25.8	15.9	18.2	9.8	.8								100		
MED				.8	.7	.9	.8	.8	.8	.9										

THS

MED 7.9 MIN 5.1 MAX 11.1

DES.PAD 1.5 ASSIM .07 CURT 1.83

HS

MED .80 MIN .41 MAX 1.54

DES.PAD .26 ASSIM .71 CURT 2.69

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL MAI 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- .5																				
.5- 1.0				2	23	33	43	17	3									121	50.0	7.9
1.0- 1.5				4	12	17	7	7	2									49	20.2	7.5
1.5- 2.0				2	26	19	3	4	1									55	22.7	7.2
2.0- 2.5					7	5	2	2										16	6.6	7.5
2.5- 3.0						1												1	.4	7.7
3.0- 3.5																				
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				8	68	75	55	30	6									242	100	
%				3.3	28.1	31.0	22.7	12.4	2.5									100		
MED				1.2	1.4	1.2	.9	1.1	1.1											

THS

MED 7.6 MIN 5.4 MAX 10.7

DES.PAD 1.1 ASSIM .41 CURT 2.43

HS

MED 1.17 MIN .53 MAX 2.54

DES.PAD .49 ASSIM .63 CURT 2.09

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL JUN 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- .5				2	19	13	12	9	1									56	25.6	7.6
.5- 1.0				15	9	10	33	26	6	3	1		1					104	47.5	8.3
1.0- 1.5			1	3	5			4	3	4	2	1						23	10.5	9.1
1.5- 2.0				2	7	11	3	2	1		3							29	13.2	7.9
2.0- 2.5					1	3												4	1.8	7.1
2.5- 3.0						1	2											3	1.4	7.9
3.0- 3.5																				
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	22	41	38	50	41	11	7	6	1	1					219	100	
%			.5	10.0	18.7	17.4	22.8	18.7	5.0	3.2	2.7	.5	.5					100		
MED			1.1	.8	.8	1.1	.7	.7	1.0	1.1	1.4	1.3	.8							

THS

MED 8.1 MIN 4.7 MAX 14.2

DES.PAD 1.8 ASSIM .68 CURT 3.51

HS

MED .86 MIN .33 MAX 2.93

DES.PAD .52 ASSIM 1.43 CURT 4.68

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL ABR 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- .5			5	5														10	7.6	5.0
.5- 1.0			19	26	19	11	15	2										92	69.7	6.2
1.0- 1.5			4	17	4	2	1	1										29	22.0	5.8
1.5- 2.0				1														1	.8	5.7
2.0- 2.5																				
2.5- 3.0																				
3.0- 3.5																				
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			28	49	23	13	16	3										132	100	
%			21.2	37.1	17.4	9.8	12.1	2.3										100		
MED			.7	.8	.8	.8	.9	.9												

TZ

MED 6.1 MIN 4.1 MAX 9.3

DES.PAD 1.3 ASSIM .72 CURT 2.47

HS

MED .80 MIN .41 MAX 1.54

DES.PAD .26 ASSIM .71 CURT 2.69

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL MAI 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- .5																				
.5- 1.0			15	42	50	12	2											121	50.0	6.0
1.0- 1.5			6	21	15	5	2											49	20.2	5.9
1.5- 2.0			1	43	4	5	2											55	22.7	5.9
2.0- 2.5				9	4	3												16	6.6	6.2
2.5- 3.0					1													1	.4	6.6
3.0- 3.5																				
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			22	115	74	25	6											242	100	
%			9.1	47.5	30.6	10.3	2.5											100		
MED			1.0	1.3	1.0	1.2	1.2													

TZ

MED 5.9 MIN 4.2 MAX 8.3

DES.PAD .8 ASSIM .62 CURT 3.26

HS

MED 1.17 MIN .53 MAX 2.54

DES.PAD .49 ASSIM .63 CURT 2.09

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL JUN 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- .5			15	31	10													56	25.6	5.4
.5- 1.0		1	21	24	39	14	4	1										104	47.5	6.0
1.0- 1.5			4	5	4	7	3											23	10.5	6.5
1.5- 2.0			2	11	10	3	3											29	13.2	6.2
2.0- 2.5				1	3													4	1.8	6.0
2.5- 3.0					3													3	1.4	6.3
3.0- 3.5																				
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	42	72	69	24	10	1										219	100	
%		.5	19.2	32.9	31.5	11.0	4.6	.5										100		
MED		.6	.7	.8	1.0	1.0	1.2	.8												

TZ

MED 5.9 MIN 3.8 MAX 9.5

DES.PAD 1.1 ASSIM .70 CURT 3.37

HS

MED .86 MIN .33 MAX 2.93

DES.PAD .52 ASSIM 1.43 CURT 4.68

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL ABR 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- .5																				
.5- 1.0										4	6	2	13	5	1	1	2	34	25.8	14.3
1.0- 1.5							2		4	10	8	9	15	4	2	4		58	43.9	13.4
1.5- 2.0									6	4	4	5	7		1			27	20.5	12.8
2.0- 2.5									1	2	1	2	3					9	6.8	12.9
2.5- 3.0											2	2						4	3.0	12.9
3.0- 3.5																				
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		11	20	21	20	38	9	4	5	2	132	100	
%							1.5		8.3	15.2	15.9	15.2	28.8	6.8	3.0	3.8	1.5	100		
MED							1.5		1.6	1.3	1.4	1.5	1.3	1.0	1.3	1.1	.9			

TMAX

MED 13.4 MIN 8.6 MAX 18.0

DES.PAD 1.8 ASSIM .12 CURT 2.90

HMAX

MED 1.34 MIN .71 MAX 2.85

DES.PAD .46 ASSIM 1.05 CURT 3.67

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL MAI 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- .5																				
.5- 1.0										1		1	1	4		1	3	11	4.5	16.0
1.0- 1.5									2	10	10	15	29	13	3	2	2	86	35.5	14.0
1.5- 2.0									5	7	15	7	9	1	1	3	2	50	20.7	13.3
2.0- 2.5								1	11	1	4	2	5	2			1	27	11.2	12.5
2.5- 3.0									15	3	3	1	4					26	10.7	11.7
3.0- 3.5									13	9	2	1	3					28	11.6	11.6
3.5- 4.0									5	3	2	1						11	4.5	11.5
4.0- 4.5									2									2	.8	10.2
4.5- 5.0										1								1	.4	11.7
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	53	35	36	28	51	20	4	6	8	242	100	
%								.4	21.9	14.5	14.9	11.6	21.1	8.3	1.7	2.5	3.3	100		
MED								2.3	2.8	2.3	1.9	1.6	1.7	1.3	1.4	1.4	1.3			

TMAX

MED 13.1 MIN 9.4 MAX 19.5

DES.PAD 2.1 ASSIM .66 CURT 3.04

HMAX

MED 1.99 MIN .81 MAX 4.76

DES.PAD .86 ASSIM .75 CURT 2.51

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- .5																				
.5- 1.0									2	4	8	13	32	12	4	2	1	78	35.6	14.2
1.0- 1.5								2	3	5	6	11	17	10	9	1	7	71	32.4	14.5
1.5- 2.0							1	1	3	1			1	2	5	1	8	23	10.5	15.5
2.0- 2.5							1	1	1	1						1	5	10	4.6	15.0
2.5- 3.0							1	1	9	1	1	1	1				6	21	9.6	13.1
3.0- 3.5									3	1					1		3	8	3.7	14.5
3.5- 4.0									1	1	1						1	4	1.8	13.3
4.0- 4.5								1										1	.5	9.4
4.5- 5.0									1		2							3	1.4	12.0
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							3	6	23	14	18	25	51	24	19	5	31	219	100	
%							1.4	2.7	10.5	6.4	8.2	11.4	23.3	11.0	8.7	2.3	14.2	100		
MED							2.2	2.3	2.5	1.6	1.6	1.1	.9	1.0	1.4	1.3	2.1			

TMAX

MED 14.3 MIN 8.6 MAX 21.9

DES.PAD 2.6 ASSIM .13 CURT 2.65

HMAX

MED 1.48 MIN .54 MAX 4.95

DES.PAD .90 ASSIM 1.49 CURT 4.92

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
12	15-00	9	1.06	4.2	6.2	0.404	131	22	133	176	18.9
12	18-00	9	1.12	4.1	5.5	0.426	128	26	127	169	13.0
13	00-00	9	1.06	4.7	5.5	0.517	133	24	134	175	6.7
13	03-00	8	0.84	5.0	7.0	0.370	129	21	143	183	20.5
13	06-00	9	0.76	4.6	7.0	0.293	136	24	146	214	12.9
13	18-00	8	0.65	4.7	11.1	0.189	272	51	137	227	1.9
13	21-00	9	0.56	5.1	5.5	0.143	139	26	142	235	10.8
14	00-00	9	0.63	5.0	10.5	0.223	258	51	159	221	0.7
14	03-00	9	0.59	5.7	12.5	0.285	208	55	131	215	1.0
14	06-00	9	0.60	3.6	11.1	0.190	280	43	285	244	1.7
14	09-00	9	0.55	4.7	11.8	0.333	257	45	251	242	0.6
14	12-00	9	0.55	4.9	11.8	0.315	253	53	267	230	0.6
14	15-00	7	0.62	4.6	11.1	0.341	261	66	294	236	1.6
14	18-00	8	0.64	4.1	10.5	0.341	236	75	306	263	1.2
15	00-00	9	0.64	5.7	10.5	0.527	268	37	282	239	1.9
15	03-00	9	0.66	6.1	10.5	0.468	269	38	297	234	2.6
15	06-00	9	0.63	5.7	10.5	0.425	283	33	303	245	2.6
15	09-00	9	0.53	6.1	10.5	0.282	271	48	292	242	1.1
15	12-00	9	0.66	5.2	10.5	0.364	274	40	302	237	2.4
15	15-00	9	0.57	5.4	10.0	0.293	269	42	299	231	1.2
15	18-00	9	0.62	5.3	14.3	0.347	197	37	310	233	4.2
15	21-00	9	0.65	7.4	9.1	0.499	293	23	319	237	14.2
16	00-00	9	0.62	6.5	9.1	0.348	280	34	286	226	3.0
16	03-00	8	0.70	7.1	14.3	0.341	186	32	307	235	7.1
16	06-00	9	0.57	6.7	11.1	0.228	264	48	311	242	0.6
16	09-00	9	0.55	7.4	10.0	0.266	284	42	301	236	1.7
16	12-00	9	0.55	4.2	15.4	0.178	191	40	224	232	2.6
16	15-00	9	0.63	3.7	15.4	0.253	190	50	149	225	0.5
16	18-00	9	0.53	4.4	13.3	0.255	191	36	134	235	3.2
16	21-00	9	0.52	4.4	13.3	0.287	203	38	136	225	1.6
17	00-00	9	0.53	3.7	14.3	0.160	189	40	156	224	2.1
17	03-00	9	0.49	3.9	14.3	0.171	198	40	158	222	3.2
17	06-00	9	0.56	4.4	12.5	0.320	197	37	174	223	3.1
17	09-00	9	0.52	4.3	10.5	0.234	254	52	191	232	0.4
17	12-00	8	0.55	3.9	11.1	0.179	227	45	174	227	0.5
17	15-00	9	0.61	3.8	11.1	0.198	236	54	163	226	0.2
17	18-00	9	0.63	4.1	9.1	0.260	275	33	200	231	3.2
17	21-00	9	0.70	4.9	10.0	0.476	280	32	205	236	5.7
18	00-00	8	0.75	5.6	10.0	0.796	274	23	189	238	8.4
18	03-00	9	0.86	6.2	8.0	0.914	281	16	204	222	15.9
18	06-00	9	0.79	5.9	9.1	0.783	274	22	246	226	8.5
18	09-00	9	0.76	5.8	9.1	0.711	282	25	257	224	8.6
18	12-00	9	0.74	6.1	9.1	0.633	276	28	232	223	6.1
18	15-00	9	0.67	5.0	8.0	0.470	274	28	225	215	7.7
18	18-00	9	0.72	5.2	8.0	0.595	277	23	253	211	9.2

DIA	HORA	NG	HM0 (m)	T02 (s)	TP (s)	SMAX (m2.s)	THTP1 (graus)	SPRTP1 (graus)	THHF1 (graus)	THLF1 (graus)	N
18	21-00	9	0.69	4.9	8.0	0.482	277	22	268	225	10.6
19	00-00	9	0.57	4.7	8.0	0.204	271	30	260	215	3.6
19	03-00	9	0.63	4.8	8.0	0.268	270	30	249	215	4.3
19	06-00	9	0.71	4.1	7.0	0.244	280	28	271	208	5.4
19	09-00	9	0.80	4.2	8.0	0.353	275	29	271	217	3.8
19	15-00	9	1.12	4.3	8.0	0.692	277	32	261	224	4.6
19	18-00	9	1.38	4.5	8.0	0.856	275	30	263	238	4.1
19	21-00	9	1.31	4.4	6.2	0.682	282	25	267	235	7.0
20	00-00	9	1.15	4.5	8.0	0.663	267	25	263	246	7.9
20	03-00	9	1.13	4.6	8.0	0.634	270	34	255	245	2.3
20	06-00	9	1.15	5.1	11.1	0.683	292	35	247	257	5.9
20	09-00	9	1.20	5.1	8.0	0.704	275	29	270	255	3.8
20	12-00	9	1.25	5.6	11.1	2.105	279	18	273	254	14.7
20	15-00	9	1.10	4.9	10.5	1.568	278	28	276	253	3.6
20	18-00	9	1.08	5.0	10.5	1.559	272	23	279	254	11.3
20	21-00	9	1.00	5.6	10.5	1.189	279	22	290	255	8.2
21	00-00	9	0.98	6.0	10.0	1.212	273	25	292	247	6.6
21	03-00	9	0.97	6.6	10.0	1.914	278	20	292	252	9.6
21	06-00	9	0.91	6.4	10.0	1.089	273	28	296	243	4.7
21	09-00	9	0.89	6.3	10.0	1.043	280	24	298	258	9.5
21	12-00	9	0.75	5.4	11.1	0.732	280	21	305	263	14.7
21	15-00	9	0.85	6.7	10.0	1.344	279	19	298	258	12.9
21	18-00	9	0.80	6.1	10.0	0.836	267	32	238	260	3.7
21	21-00	9	1.01	7.4	10.0	1.772	285	22	305	272	12.7
22	00-00	9	0.71	7.1	10.0	0.610	285	25	101	269	5.7
22	03-00	9	0.67	7.1	10.0	0.508	275	24	358	264	8.1
22	06-00	9	0.79	7.6	10.5	0.712	272	25	178	257	7.1
22	09-00	9	0.82	7.7	12.5	0.781	272	25	331	254	6.5
22	12-00	9	0.93	8.3	11.8	2.342	282	15	315	267	37.5
22	15-00	9	0.87	8.1	11.1	1.434	283	22	321	260	12.2
22	18-00	8	0.87	7.6	10.5	1.320	279	26	315	260	5.5
22	21-00	9	0.93	7.3	11.1	1.625	285	20	29	263	13.0
23	00-00	9	0.82	7.3	10.5	1.096	279	20	2	253	21.3
23	03-00	9	0.78	7.7	10.0	0.978	281	25	318	256	7.5
23	06-00	9	0.92	8.2	10.5	2.073	279	19	278	253	13.7
23	09-00	9	1.02	8.5	10.5	2.644	282	19	42	258	11.1
23	12-00	9	0.92	8.1	10.5	1.704	296	19	20	264	13.2
23	15-00	9	0.93	8.2	10.0	1.550	281	21	287	262	12.9
23	18-00	9	0.94	7.3	10.0	1.536	277	25	288	253	4.9
23	21-00	9	0.95	7.7	10.0	1.842	269	22	79	260	8.8
24	00-00	9	0.99	8.2	10.0	1.512	274	24	54	260	6.4
24	03-00	9	0.96	7.8	9.1	1.072	291	20	9	272	14.0
24	06-00	9	0.99	7.5	12.5	1.198	302	19	311	268	13.5
24	09-00	9	1.01	7.3	10.5	1.163	291	23	330	268	9.7
24	12-00	9	1.06	6.0	10.5	1.444	290	27	296	262	6.2

DIA	HORA	NG	HM0 (m)	T02 (s)	TP (s)	SMAX (m2.s)	THTP1 (graus)	SPRTP1 (graus)	THHF1 (graus)	THLF1 (graus)	N
24	15-00	9	1.26	6.6	10.5	2.237	288	18	294	265	13.5
24	18-00	9	1.34	6.3	11.1	3.038	286	20	279	263	9.6
24	21-00	9	1.41	5.9	11.1	2.695	281	24	261	263	6.3
25	00-00	9	1.31	5.3	10.5	1.903	287	28	249	261	5.4
25	03-00	9	1.61	5.8	11.1	3.347	282	20	249	259	9.8
25	06-00	9	1.51	5.2	9.1	1.849	288	20	246	265	11.8
25	09-00	9	1.57	5.0	10.0	1.681	275	24	225	249	7.1
25	12-00	9	1.58	5.1	10.0	1.565	278	31	218	240	3.7
25	21-00	9	1.68	5.3	8.0	1.861	278	18	218	260	15.5
26	09-00	9	1.36	5.0	9.1	1.383	273	25	208	272	8.8
26	15-00	9	1.39	5.2	10.0	1.198	282	26	213	281	4.9
26	18-00	9	1.41	5.3	10.0	1.526	276	25	219	280	7.3
27	00-00	9	1.50	5.0	10.0	1.411	273	25	180	263	9.7
27	03-00	9	1.29	4.9	9.1	1.000	279	28	192	276	5.9
27	06-00	9	1.23	5.2	9.1	1.099	282	21	191	270	11.5
27	09-00	9	1.18	4.8	9.1	0.920	278	26	198	270	6.7
27	12-00	9	1.22	4.8	10.0	0.799	273	31	195	263	5.5
27	15-00	9	1.18	5.0	9.1	1.066	273	24	213	252	9.0
27	18-00	9	0.97	5.4	9.1	0.827	281	27	216	247	6.2
27	21-00	9	0.94	5.3	9.1	0.704	281	29	203	249	4.4
28	00-00	9	0.96	5.3	9.1	0.809	275	22	201	247	14.5
28	03-00	9	0.89	5.1	9.1	0.591	281	27	210	240	6.4
28	06-00	9	0.86	5.8	8.0	0.545	284	24	195	239	9.5
28	09-00	9	0.72	5.5	9.1	0.334	281	34	183	239	6.7
28	12-00	9	0.85	4.1	7.0	0.237	267	43	158	232	4.3
28	15-00	9	0.83	4.2	9.1	0.302	289	30	150	233	5.4
28	18-00	9	0.82	4.2	9.1	0.279	285	31	146	232	5.5
28	21-00	9	0.69	4.5	9.1	0.201	280	36	143	228	3.4
29	00-00	9	0.65	4.7	8.0	0.169	277	45	149	233	4.2
29	03-00	9	0.68	4.6	8.0	0.177	274	37	142	220	5.2
29	06-00	9	0.64	4.5	8.0	0.165	273	42	139	245	5.4
29	09-00	9	0.75	3.9	6.2	0.223	128	43	131	229	6.1
29	12-00	9	0.90	3.8	5.5	0.377	124	23	127	230	17.6
29	15-00	9	1.04	4.1	6.2	0.557	117	21	121	190	22.8
30	00-00	9	0.70	4.7	10.5	0.251	275	31	130	210	6.4
30	03-00	9	0.70	4.5	10.5	0.239	280	43	127	206	3.6
30	06-00	9	0.66	4.6	10.0	0.230	292	38	129	210	10.8
30	09-00	9	0.63	4.4	10.0	0.191	285	45	121	213	3.3
30	12-00	9	0.64	4.0	10.0	0.254	285	49	138	233	3.2
30	15-00	9	0.62	3.7	10.0	0.156	268	57	129	206	4.0
30	18-00	9	0.64	4.4	10.0	0.255	290	40	118	248	8.0
30	21-00	9	0.59	5.0	10.0	0.373	288	31	106	239	11.2

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	0.61	5.1	10.5	0.354	286	32	188	244	9.9
01	03-00	9	0.66	5.2	10.0	0.424	275	37	135	229	13.1
01	06-00	9	0.69	5.8	10.0	0.601	277	29	77	242	7.9
01	09-00	9	0.68	5.9	9.1	0.648	289	29	94	243	11.7
01	12-00	9	0.67	4.8	9.1	0.512	274	32	232	235	8.6
01	15-00	9	0.77	3.9	9.1	0.425	269	45	270	232	6.5
01	18-00	9	0.81	4.4	9.1	0.475	270	41	229	239	6.6
01	21-00	9	0.73	4.9	10.0	0.667	279	25	269	236	13.1
02	00-00	9	0.76	5.0	10.0	0.773	275	29	257	240	6.5
02	03-00	9	0.65	4.9	10.0	0.283	277	33	274	226	5.6
02	06-00	9	0.97	4.1	10.0	0.576	279	33	286	231	10.0
02	09-00	9	0.96	4.4	9.1	0.437	281	30	295	237	7.5
02	12-00	9	0.90	4.8	5.5	0.377	283	30	283	238	4.7
02	15-00	9	0.96	5.1	6.2	0.522	283	29	283	232	6.7
02	18-00	9	0.92	4.8	6.2	0.431	283	31	282	224	5.0
02	21-00	9	0.87	5.2	10.0	0.354	285	34	287	227	8.6
03	00-00	9	1.09	6.0	8.0	1.036	300	18	285	235	22.6
03	03-00	9	1.18	6.0	8.0	1.043	295	23	284	241	10.0
03	06-00	9	1.19	4.6	8.0	0.928	286	31	285	248	6.6
03	09-00	9	1.15	5.2	10.0	1.352	293	26	283	257	16.4
03	12-00	9	1.34	5.3	10.5	2.006	293	28	270	262	9.8
03	15-00	9	1.27	4.6	10.0	1.003	300	37	275	263	13.9
03	18-00	9	1.47	4.6	4.9	0.836	277	26	276	254	4.6
03	21-00	9	1.63	5.1	10.5	1.350	292	35	278	277	5.1
04	00-00	9	1.45	5.1	6.2	0.982	284	24	278	270	5.4
04	03-00	9	1.63	5.6	11.8	1.496	293	34	276	275	10.6
04	06-00	9	1.53	5.1	12.5	1.108	291	53	278	278	4.0
04	09-00	9	1.58	5.1	13.3	1.157	274	59	275	282	2.2
04	12-00	9	1.75	5.5	13.3	1.505	291	42	273	286	6.7
04	15-00	9	1.51	5.7	13.3	1.584	282	68	278	288	1.6
04	18-00	8	1.44	6.1	13.3	1.730	281	70	280	321	1.1
05	00-00	9	1.37	5.0	10.5	0.840	302	35	276	271	8.6
05	03-00	9	1.26	5.2	11.8	0.813	274	45	270	265	1.9
05	06-00	9	1.26	5.7	13.3	1.069	277	47	274	268	2.4
05	09-00	9	1.25	6.0	13.3	0.965	278	50	278	274	2.9
05	12-00	9	1.31	6.2	12.5	1.449	291	40	277	269	5.7
05	15-00	9	1.10	6.5	11.8	1.249	282	34	278	264	9.6
05	18-00	9	1.01	6.3	12.5	0.672	269	55	259	258	2.6
05	21-00	9	0.95	5.9	10.5	0.612	293	29	255	265	8.6
06	00-00	9	1.00	6.9	18.2	0.782	184	25	261	259	9.4
06	03-00	9	0.91	6.3	12.5	0.940	283	44	263	269	3.4
06	06-00	9	0.98	6.3	12.5	0.920	294	36	256	270	6.7
06	09-00	9	0.89	5.9	16.7	0.770	174	26	240	264	8.6
06	12-00	9	0.87	6.2	16.7	0.561	188	34	255	270	4.6
06	15-00	9	0.83	7.1	11.1	0.561	291	35	262	262	6.8

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	0.82	5.7	16.7	0.774	181	34	247	253	3.1
06	21-00	9	0.76	4.8	10.5	0.422	297	37	257	254	8.5
07	00-00	9	0.93	4.5	15.4	0.842	174	35	268	251	3.5
07	03-00	9	1.14	4.1	15.4	0.863	176	41	268	257	1.7
07	06-00	9	0.95	4.5	15.4	0.452	181	34	261	250	4.2
07	09-00	9	0.86	4.5	14.3	0.580	177	41	261	234	2.4
07	12-00	9	0.87	4.6	14.3	0.576	177	41	270	230	1.8
07	15-00	9	0.89	4.9	15.4	0.544	179	32	273	244	4.3
07	18-00	9	0.84	5.0	14.3	0.507	184	37	269	242	3.7
07	21-00	9	0.80	5.4	14.3	0.544	180	34	266	235	6.5
08	00-00	9	0.86	5.4	13.3	0.556	184	34	264	234	4.1
08	03-00	9	0.74	5.3	9.1	0.266	277	33	271	241	4.6
08	06-00	9	0.76	4.6	14.3	0.401	181	35	257	225	3.7
08	09-00	9	0.94	4.2	8.0	0.448	271	24	242	226	11.1
08	15-00	9	1.55	4.7	4.9	1.053	244	31	235	234	3.1
08	18-00	9	1.87	5.0	8.0	2.007	270	19	235	242	16.0
08	21-00	9	1.98	5.2	8.0	2.319	274	24	230	233	7.8
09	00-00	9	2.28	5.4	7.0	3.430	261	25	234	236	6.4
09	03-00	9	2.12	5.4	8.0	3.196	264	21	239	228	10.3
09	06-00	9	1.85	5.5	8.0	3.074	258	20	235	215	10.4
09	09-00	9	1.77	5.4	7.0	1.962	256	29	235	224	4.4
09	12-00	9	1.60	5.2	6.2	1.467	229	35	249	199	1.7
09	15-00	9	1.42	5.3	8.0	1.488	250	25	267	221	6.5
09	18-00	9	1.32	5.4	7.0	1.329	260	33	278	218	2.9
09	21-00	9	1.09	5.6	8.0	0.833	266	31	269	209	3.9
10	00-00	9	1.20	5.6	6.2	0.933	250	38	264	204	1.8
10	03-00	9	1.03	5.2	8.0	0.627	263	31	272	220	5.0
10	06-00	9	1.05	4.8	7.0	0.676	249	40	276	210	1.2
10	09-00	9	1.00	4.3	6.2	0.499	250	40	266	200	1.9
10	12-00	9	1.00	4.6	7.0	0.563	255	39	265	197	1.6
10	15-00	8	1.16	4.2	6.2	0.605	243	49	271	206	0.4
10	18-00	9	1.37	4.5	8.0	0.777	291	28	276	235	7.1
10	21-00	9	1.43	4.6	6.2	1.024	272	33	276	253	3.1
11	00-00	9	1.67	5.0	7.0	1.994	286	22	269	235	8.7
11	03-00	9	1.55	4.7	7.0	1.625	282	21	271	242	10.8
11	06-00	9	1.57	4.6	8.0	1.098	294	26	249	262	4.7
11	09-00	9	1.81	4.8	6.2	1.439	265	29	242	259	3.4
11	12-00	9	1.99	5.1	6.2	2.624	260	30	251	252	3.4
11	15-00	9	2.21	5.1	7.0	3.871	279	23	253	250	6.5
11	18-00	9	2.03	5.1	7.0	3.090	267	26	248	250	5.0
11	21-00	9	2.08	5.3	7.0	3.162	265	26	237	252	4.5
12	00-00	9	2.11	5.5	7.0	4.315	268	24	230	257	6.5
12	03-00	9	2.24	5.3	8.0	3.918	276	25	239	256	6.5
12	06-00	9	2.10	5.3	8.0	3.435	276	23	237	258	7.5
12	09-00	9	1.93	5.1	8.0	2.308	267	25	227	238	6.5

DIA	HORA	NG	HM0 (m)	T02 (s)	TP (s)	SMAX (m2.s)	THTP1 (graus)	SPRTP1 (graus)	THHF1 (graus)	THLF1 (graus)	N
12	12-00	9	2.07	5.4	8.0	3.153	275	25	224	239	5.8
12	15-00	9	1.74	5.0	7.0	1.417	261	31	226	233	2.8
12	18-00	9	1.71	5.0	6.2	1.537	249	33	220	253	2.7
12	21-00	9	1.79	5.2	10.0	1.554	295	21	214	255	9.8
13	00-00	9	1.78	5.1	7.0	1.809	268	28	206	237	3.9
13	03-00	9	1.83	5.1	7.0	1.930	271	27	219	232	4.1
13	06-00	9	1.64	5.2	6.2	1.870	246	27	212	243	4.6
13	09-00	9	1.87	4.6	4.9	1.946	175	31	176	238	3.4
13	12-00	9	2.16	5.4	7.0	3.933	200	42	248	216	0.8
13	15-00	9	2.67	6.5	8.0	11.150	191	30	218	190	3.8
13	18-00	9	2.45	7.0	9.1	8.339	195	33	214	190	3.7
13	21-00	9	2.10	6.4	8.0	4.991	208	39	214	203	1.4
14	00-00	9	2.30	6.4	8.0	5.793	210	37	207	209	2.5
14	03-00	9	2.21	5.9	8.0	5.827	199	36	220	197	2.6
14	06-00	9	1.77	5.8	8.0	3.830	207	41	226	196	1.2
14	09-00	9	1.87	5.4	8.0	4.101	212	38	226	197	1.6
14	12-00	9	2.04	5.5	8.0	3.689	203	49	222	203	0.5
14	15-00	9	1.86	5.2	8.0	2.388	228	56	224	203	0.3
14	18-00	9	2.09	5.3	8.0	2.890	240	41	241	226	0.8
14	21-00	9	1.91	5.2	7.0	2.445	234	42	226	218	0.8
15	00-00	9	1.86	5.0	8.0	1.997	258	41	227	216	1.0
15	03-00	9	2.04	5.4	8.0	3.368	269	39	226	227	1.9
15	06-00	9	2.05	5.6	8.0	4.312	272	29	241	221	5.0
15	09-00	9	1.98	5.5	8.0	3.293	257	38	234	233	1.2
15	12-00	9	2.02	5.5	7.0	3.324	234	31	230	228	3.2
15	15-00	9	2.13	5.5	8.0	4.152	270	33	228	218	2.9
15	18-00	9	2.10	5.6	8.0	5.275	275	31	232	234	3.0
15	21-00	9	2.03	5.3	8.0	3.552	267	28	211	225	3.8
16	00-00	9	2.07	5.3	8.0	3.291	260	29	208	222	3.3
16	03-00	9	2.48	5.5	8.0	5.123	254	35	199	228	1.9
16	06-00	9	2.33	5.8	7.0	5.617	230	37	221	217	1.3
16	09-00	9	1.94	6.1	8.0	5.588	249	27	221	216	3.5
16	12-00	9	1.65	5.2	8.0	2.421	241	39	247	222	0.8
16	15-00	9	1.82	5.3	8.0	3.031	239	46	244	210	0.6
16	18-00	9	2.01	5.3	8.0	4.239	239	41	261	216	0.9
16	21-00	9	1.97	5.4	7.0	3.530	221	39	258	208	0.9
17	00-00	9	1.81	5.5	7.0	2.774	216	40	247	204	1.3
17	03-00	9	1.72	5.4	8.0	2.891	217	41	240	203	0.8
17	06-00	9	1.65	5.2	8.0	2.465	210	45	261	212	0.9
17	12-00	9	1.53	5.5	7.0	2.307	215	40	254	225	1.0
17	15-00	9	1.47	5.6	7.0	2.330	215	42	242	207	1.1
17	18-00	9	1.37	5.3	7.0	1.555	226	41	255	213	0.8
17	21-00	9	1.28	5.4	7.0	0.958	251	43	261	217	0.8
18	00-00	9	1.25	5.8	7.0	1.390	243	36	253	223	1.3
18	03-00	9	1.11	5.8	8.0	0.935	243	41	254	214	1.0

DIA	HORA	NG	HM0 (m)	T02 (s)	TP (s)	SMAX (m2.s)	THTP1 (graus)	SPRTP1 (graus)	THHF1 (graus)	THLF1 (graus)	N
18	06-00	9	1.10	5.8	8.0	0.863	257	35	273	212	2.5
18	09-00	9	1.13	5.9	8.0	0.913	283	31	280	225	3.9
18	12-00	9	1.02	5.7	8.0	0.647	277	36	262	220	2.0
18	18-00	9	0.99	5.7	8.0	0.694	277	36	264	209	3.1
18	21-00	9	0.86	5.5	8.0	0.451	275	37	268	212	1.8
19	00-00	9	0.86	5.9	8.0	0.507	272	31	261	209	3.0
19	03-00	9	0.80	5.1	7.0	0.321	262	39	273	204	1.3
19	06-00	9	0.84	4.8	8.0	0.374	286	32	273	206	3.5
19	09-00	9	0.85	4.7	7.0	0.296	275	35	283	213	2.3
19	12-00	9	0.89	4.6	8.0	0.489	292	27	279	208	6.4
19	15-00	9	0.91	4.0	14.3	0.283	177	41	269	213	2.0
19	18-00	9	0.87	4.3	7.0	0.369	283	29	275	219	4.0
19	21-00	9	0.82	4.6	7.0	0.341	281	29	272	210	4.5
20	00-00	9	0.99	4.6	8.0	0.566	293	27	278	219	5.8
20	03-00	9	1.21	4.2	8.0	0.471	285	24	263	247	9.6
20	06-00	9	1.47	4.4	4.9	1.455	270	27	257	247	4.4
20	09-00	9	1.74	4.7	5.5	1.420	269	31	258	265	3.3
20	12-00	9	1.85	5.0	6.2	2.154	274	28	260	261	3.8
20	15-00	9	2.14	5.3	7.0	3.227	288	22	256	252	9.8
20	18-00	9	2.51	5.5	7.0	5.568	274	27	254	253	4.4
20	21-00	9	2.23	5.6	9.1	3.699	288	26	261	246	6.6
21	00-00	9	2.21	6.2	10.5	5.372	295	14	266	271	34.2
21	03-00	9	2.11	6.8	10.5	4.470	291	18	264	270	22.5
21	06-00	9	1.88	6.7	11.1	2.890	282	24	269	267	7.3
21	09-00	9	2.13	7.2	11.8	4.515	290	18	277	270	14.5
21	12-00	9	2.17	6.8	11.1	8.010	285	14	282	272	28.6
21	15-00	9	1.85	6.9	11.8	4.881	290	21	272	271	22.0
21	18-00	9	1.75	6.5	11.1	2.909	287	23	272	266	10.4
22	00-00	9	1.74	7.6	11.1	5.162	286	16	280	272	22.8
22	03-00	9	1.63	7.6	11.1	3.240	287	20	289	270	10.4
22	06-00	9	1.52	7.9	11.1	3.294	274	24	283	255	6.1
22	09-00	9	1.63	7.5	11.1	3.882	275	21	283	253	7.4
22	12-00	9	1.36	7.0	11.1	2.391	280	22	288	256	8.6
22	15-00	9	1.18	7.2	11.1	2.695	277	20	285	254	10.6
22	18-00	9	0.98	6.9	9.1	0.842	275	25	286	245	8.1
22	21-00	9	1.00	7.1	10.0	0.975	269	24	284	237	7.2
23	00-00	9	0.96	6.9	11.1	0.862	275	28	292	235	8.8
23	03-00	9	0.89	7.2	10.0	1.019	283	28	285	250	5.3
23	06-00	9	0.85	5.6	10.0	0.822	277	25	264	241	8.4
23	09-00	9	0.97	5.4	10.5	1.042	275	25	249	243	8.7
23	12-00	9	0.95	5.2	13.3	0.604	200	41	242	236	4.1
23	15-00	9	0.88	4.7	10.0	0.680	281	25	231	235	6.3
23	18-00	9	0.85	4.6	10.0	0.478	266	27	222	229	7.4
23	21-00	9	0.99	4.8	10.0	0.823	269	27	217	216	8.7
24	00-00	9	1.01	4.4	4.5	0.461	209	38	236	221	1.3

DIA	HORA	NG	HM0 (m)	T02 (s)	TP (s)	SMAX (m2.s)	THTP1 (graus)	SPRTP1 (graus)	THHF1 (graus)	THLF1 (graus)	N
24	03-00	9	0.90	4.7	13.3	0.561	185	44	245	226	1.7
24	06-00	9	0.90	5.3	9.1	0.589	265	27	224	209	8.5
24	09-00	9	0.85	5.2	12.5	0.560	173	34	219	207	3.8
24	12-00	9	0.81	5.1	9.1	0.411	259	27	233	208	8.2
24	15-00	9	0.79	5.5	14.3	0.464	168	32	257	212	4.8
24	18-00	9	0.73	5.9	9.1	0.398	265	26	236	214	8.7
24	21-00	9	0.68	5.0	8.0	0.333	271	29	230	205	6.0
25	00-00	9	0.75	5.5	8.0	0.363	259	26	237	205	6.5
25	03-00	9	0.76	5.5	13.3	0.409	171	30	249	214	5.7
25	06-00	9	0.65	5.9	13.3	0.320	178	33	236	214	5.3
25	09-00	9	0.69	6.1	8.0	0.370	271	29	231	218	6.2
25	12-00	9	0.70	5.5	8.0	0.297	267	29	245	213	8.3
25	15-00	9	0.70	5.5	9.1	0.313	279	33	256	219	5.4
25	18-00	9	0.60	5.8	9.1	0.275	265	40	235	218	5.8
25	21-00	9	0.68	6.5	11.1	0.390	254	55	232	227	2.2
26	00-00	9	0.78	6.9	11.1	0.717	267	43	231	234	2.1
26	03-00	9	0.94	7.3	10.0	1.193	286	23	266	239	10.1
26	06-00	9	0.92	7.8	10.5	1.219	286	27	259	238	9.9
26	09-00	8	0.88	7.5	10.0	0.757	273	40	255	238	3.9
26	12-00	9	0.91	6.6	11.8	0.759	271	41	211	247	3.0
26	15-00	9	1.15	7.0	11.1	2.371	272	27	215	242	7.7
26	21-00	9	1.12	6.1	9.1	1.497	270	28	171	242	8.2
27	00-00	9	1.17	6.0	10.0	1.517	277	24	145	235	10.2
27	03-00	9	1.14	6.1	10.0	1.519	280	26	141	234	7.3
27	06-00	9	1.20	5.9	10.0	1.853	279	26	139	241	11.7
27	09-00	9	0.97	5.9	10.5	1.207	278	29	134	236	8.0
27	12-00	9	1.04	5.4	10.0	0.672	267	39	137	226	4.0
27	15-00	9	1.07	5.9	9.1	1.080	269	39	129	233	7.4
27	18-00	9	0.97	6.0	9.1	0.838	270	45	136	226	5.9
27	21-00	9	0.99	6.2	9.1	1.216	269	31	154	225	12.9
28	00-00	9	0.92	5.8	9.1	0.690	266	47	131	219	4.2
28	03-00	9	0.88	5.6	9.1	0.752	274	50	114	219	8.2
28	06-00	9	0.89	5.7	9.1	0.827	265	49	115	219	7.6
28	09-00	9	0.80	5.6	8.0	0.666	199	72	128	216	6.4
28	12-00	9	0.87	6.1	9.1	0.772	246	56	128	206	3.5
28	15-00	9	1.02	5.8	9.1	1.175	270	53	120	217	8.3
28	18-00	9	0.86	5.4	9.1	0.518	268	56	108	222	3.8
28	21-00	9	0.78	6.0	9.1	0.692	264	44	124	218	7.4
29	00-00	9	0.79	5.8	9.1	0.711	246	64	136	211	3.3
29	03-00	9	0.96	6.1	9.1	0.836	199	70	112	186	6.0
29	06-00	9	0.95	6.3	9.1	1.075	254	56	111	212	5.1
29	09-00	9	0.65	5.6	8.0	0.382	254	60	131	223	6.4
29	12-00	9	0.71	5.7	9.1	0.458	237	63	137	213	3.3
29	15-00	9	0.98	6.0	8.0	0.923	221	62	115	210	3.9
29	18-00	9	0.80	5.6	8.0	0.498	255	58	113	210	6.3

DIA	HORA	NG	HM0 (m)	T02 (s)	TP (s)	SMAX (m2.s)	THTP1 (graus)	SPRTP1 (graus)	THHF1 (graus)	THLF1 (graus)	N
29	21-00	9	0.73	6.2	9.1	0.610	252	41	119	217	5.7
30	00-00	9	0.67	6.0	8.0	0.409	244	51	128	200	4.0
30	03-00	9	0.92	6.1	8.0	0.886	158	68	116	167	4.3
30	06-00	9	0.69	5.6	18.2	0.354	177	34	119	199	4.0
30	09-00	9	0.59	6.1	18.2	0.313	186	33	141	205	16.2
30	12-00	9	0.64	6.3	18.2	0.493	183	32	146	193	3.9
30	15-00	9	0.81	5.7	18.2	0.594	180	30	117	172	5.5
30	18-00	9	0.83	4.8	18.2	0.576	197	43	108	202	3.3
30	21-00	9	0.69	5.3	16.7	0.327	192	41	124	209	5.5
31	00-00	9	0.68	5.8	16.7	0.491	182	27	130	186	7.3
31	03-00	9	0.75	5.7	16.7	0.472	180	33	112	173	6.4
31	06-00	9	0.70	5.6	16.7	0.569	173	37	117	182	6.2
31	09-00	9	0.68	6.2	16.7	0.794	186	29	121	197	9.2
31	12-00	9	0.66	4.4	15.4	0.392	194	32	123	190	5.8
31	15-00	9	0.84	4.2	15.4	0.644	198	42	114	182	2.0
31	18-00	9	0.85	4.3	15.4	0.447	173	42	115	179	4.2
31	21-00	9	0.76	4.9	15.4	0.363	187	34	121	198	6.6

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	0.66	5.1	15.4	0.431	187	28	128	194	5.9
01	03-00	9	0.67	5.6	15.4	0.587	181	32	133	206	16.2
01	06-00	9	0.70	6.0	15.4	0.609	174	33	111	204	5.4
01	09-00	9	0.67	5.5	14.3	0.371	187	28	118	221	7.6
01	12-00	9	0.64	6.0	10.0	0.386	263	39	138	227	2.0
01	15-00	9	0.73	6.1	10.0	0.419	270	37	131	220	3.6
01	18-00	9	0.67	5.8	14.3	0.346	173	38	120	210	4.0
01	21-00	8	0.61	5.8	10.0	0.362	255	44	144	221	2.4
02	00-00	9	0.69	4.2	10.5	0.298	247	54	162	222	1.1
02	03-00	9	0.82	3.9	9.1	0.347	266	43	164	215	2.7
02	06-00	9	0.95	4.0	4.0	0.379	174	36	160	205	1.9
02	09-00	9	1.22	3.9	4.5	0.956	171	36	175	203	1.6
02	12-00	9	1.64	4.2	5.5	2.107	191	33	176	207	2.2
02	15-00	9	2.02	4.6	5.5	3.017	166	29	158	195	3.4
02	18-00	9	2.33	5.4	7.0	4.581	189	39	184	208	1.1
02	21-00	9	2.28	5.9	8.0	6.836	204	39	198	224	1.0
03	00-00	9	2.16	5.7	8.0	4.731	208	32	184	224	3.1
03	03-00	9	1.93	6.0	8.0	4.805	201	34	170	217	2.1
03	06-00	9	2.11	5.9	8.0	5.216	214	38	166	219	1.1
03	09-00	9	1.88	5.8	8.0	3.569	239	41	158	225	1.0
03	12-00	9	1.96	5.9	8.0	3.348	242	40	184	244	1.2
03	15-00	9	1.82	5.3	8.0	2.854	228	38	172	232	1.1
03	18-00	9	1.72	5.3	7.0	1.682	185	32	147	218	2.3
03	21-00	9	1.90	5.1	10.0	2.174	256	27	149	216	5.6
04	00-00	9	1.88	5.0	5.5	1.561	150	38	141	231	1.5
04	03-00	9	2.57	5.7	7.0	4.578	200	33	154	226	2.5
04	06-00	9	3.02	6.0	9.1	7.473	240	26	156	217	5.0
04	09-00	9	3.13	6.4	8.0	10.280	200	33	170	203	2.7
04	12-00	9	2.79	6.1	9.1	6.413	212	30	165	211	4.1
04	18-00	9	1.91	5.8	9.1	3.221	208	39	203	205	1.4
04	21-00	9	1.70	6.2	9.1	3.440	220	31	208	206	3.3
05	00-00	9	1.89	6.2	8.0	4.459	213	33	255	205	2.2
05	03-00	9	1.89	5.4	8.0	2.761	233	33	265	233	3.4
05	06-00	9	1.78	5.3	7.0	2.131	251	36	274	232	3.5
05	09-00	9	1.57	5.1	7.0	1.726	267	35	281	226	3.8
05	12-00	9	1.22	4.9	8.0	1.088	260	34	288	216	2.4
05	15-00	9	1.23	5.0	8.0	1.366	252	27	289	229	4.6
05	18-00	9	1.07	5.1	7.0	1.002	264	34	282	213	3.1
05	21-00	9	1.09	4.8	7.0	0.705	270	36	286	219	5.2
06	00-00	9	1.01	4.8	5.5	0.656	284	27	287	206	9.3
06	03-00	9	0.92	4.7	6.2	0.638	284	31	286	201	7.8
06	06-00	9	0.74	4.7	6.2	0.462	290	35	290	195	5.2
06	09-00	9	0.71	4.3	6.2	0.257	291	36	297	204	4.4
06	12-00	9	0.69	4.4	6.2	0.287	284	26	291	203	12.3
06	15-00	9	0.75	4.2	6.2	0.393	290	24	290	198	19.4

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	0.68	4.3	6.2	0.330	284	28	293	198	9.5
06	21-00	9	0.68	4.8	5.5	0.243	294	26	293	191	10.1
07	00-00	9	0.99	5.1	7.0	0.899	302	18	295	205	24.0
07	03-00	9	0.73	4.1	16.7	0.239	183	41	295	193	3.2
07	06-00	9	0.74	4.0	16.7	0.526	182	30	297	193	5.7
07	09-00	9	0.71	4.2	16.7	0.375	168	41	300	168	4.7
07	15-00	9	0.86	4.3	7.0	0.288	292	35	298	226	8.8
07	18-00	9	0.95	4.4	15.4	0.579	176	40	297	204	1.5
07	21-00	9	0.97	4.3	15.4	0.592	168	40	296	187	2.3
08	00-00	9	0.90	4.4	15.4	0.862	162	35	298	182	3.4
08	03-00	9	0.87	5.0	15.4	1.135	172	27	296	198	8.4
08	06-00	9	0.93	4.9	14.3	1.244	174	21	295	192	15.6
08	09-00	9	0.88	4.7	14.3	0.797	174	30	291	198	4.8
08	12-00	9	1.04	4.4	14.3	0.498	169	46	294	196	1.8
08	15-00	9	1.03	4.5	14.3	0.888	169	41	294	185	1.7
08	18-00	9	1.04	4.9	18.2	1.184	183	31	291	198	8.1
08	21-00	9	1.04	5.1	18.2	1.819	188	28	290	178	10.4
09	00-00	9	1.06	6.4	18.2	1.865	181	35	295	176	11.2
09	03-00	9	1.03	5.3	18.2	2.060	185	26	291	192	15.5
09	06-00	9	1.11	5.6	18.2	2.601	192	35	289	189	9.8
09	09-00	9	1.34	6.6	18.2	5.288	188	25	289	200	8.5
09	12-00	9	1.56	5.4	18.2	5.283	178	28	273	165	8.6
09	15-00	9	1.76	5.7	16.7	5.141	176	29	278	183	6.6
09	18-00	9	1.91	5.4	16.7	3.781	187	39	270	206	1.6
09	21-00	9	2.15	5.4	16.7	3.923	184	29	262	206	6.0
10	00-00	9	2.22	5.9	16.7	6.812	185	22	263	207	16.7
10	03-00	9	1.81	5.9	16.7	3.336	196	29	275	218	5.3
10	06-00	9	1.91	6.9	15.4	3.938	188	24	272	219	9.6
10	09-00	9	1.87	7.0	16.7	5.114	192	22	273	219	14.8
10	12-00	9	1.90	7.9	15.4	6.447	184	24	274	223	11.8
10	15-00	9	1.66	7.0	15.4	3.280	185	31	271	234	6.3
10	18-00	9	1.48	7.2	16.7	3.159	190	26	273	228	9.7
10	21-00	9	1.67	8.1	16.7	5.782	182	21	268	225	15.2
11	00-00	9	1.76	8.9	16.7	7.723	177	20	296	221	21.8
11	03-00	9	1.60	8.4	15.4	5.334	190	27	295	224	7.0
11	06-00	9	1.30	7.4	15.4	2.737	186	27	289	221	6.4
11	09-00	9	1.50	8.0	15.4	5.102	184	22	292	230	17.9
11	12-00	9	1.28	5.6	15.4	2.528	183	29	294	227	4.9
11	15-00	9	1.26	6.0	15.4	2.769	178	29	301	232	7.1
11	18-00	9	1.22	6.5	15.4	3.451	183	22	293	225	11.8
11	21-00	9	1.13	6.8	15.4	2.259	181	26	289	232	9.8
12	00-00	9	1.07	7.3	15.4	2.001	175	24	293	218	9.8
12	03-00	9	1.15	6.7	15.4	2.320	181	30	291	234	9.6
12	06-00	9	1.22	6.3	15.4	2.587	174	28	298	228	8.2
12	09-00	9	1.07	6.1	15.4	1.817	182	23	292	230	11.4

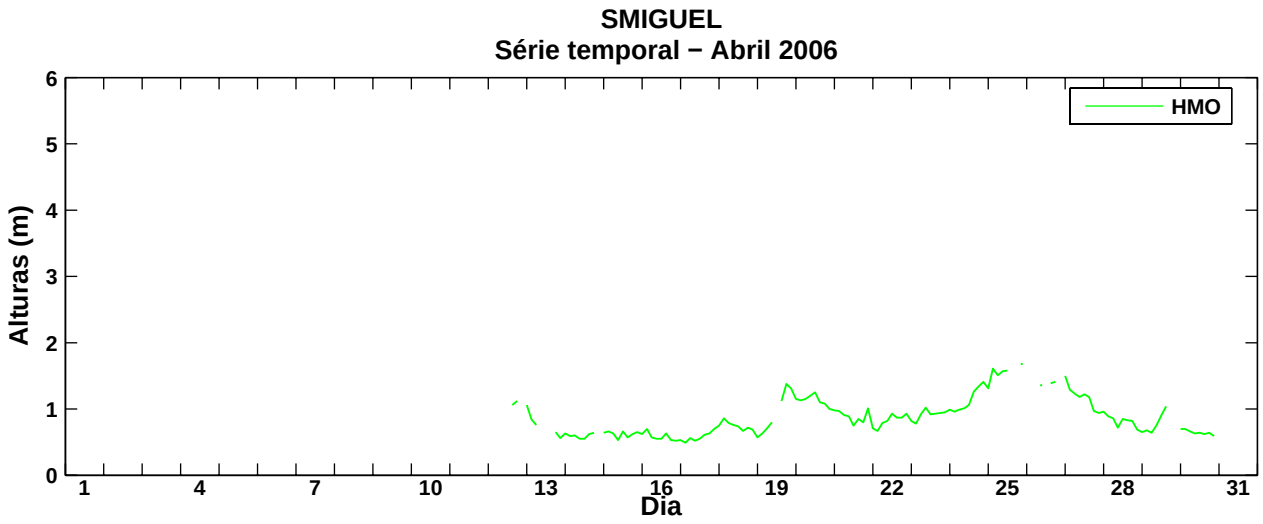
DIA	HORA	NG	HM0 (m)	T02 (s)	TP (s)	SMAX (m2.s)	THTP1 (graus)	SPRTP1 (graus)	THHF1 (graus)	THLF1 (graus)	N
12	12-00	9	1.05	6.1	14.3	1.649	178	29	289	229	4.7
12	15-00	9	1.12	6.0	14.3	1.928	185	28	292	239	11.3
12	18-00	8	0.96	6.0	14.3	1.326	183	33	295	233	2.6
12	21-00	9	0.89	6.6	14.3	1.379	183	22	291	229	11.2
13	00-00	9	0.75	6.4	14.3	0.794	171	33	304	218	3.2
13	03-00	9	0.76	6.1	14.3	0.657	182	33	306	222	5.1
13	09-00	8	0.73	5.9	13.3	0.628	188	32	296	236	4.8
13	12-00	9	0.71	4.9	14.3	0.376	180	35	290	241	4.2
13	15-00	9	0.66	5.4	13.3	0.295	187	52	282	240	1.4
13	18-00	9	0.63	4.7	13.3	0.371	174	39	303	222	3.9
13	21-00	9	0.63	4.9	13.3	0.405	179	30	287	221	5.0
14	00-00	9	0.64	5.5	13.3	0.403	183	30	295	215	5.2
14	03-00	9	0.62	5.7	12.5	0.205	181	35	319	214	4.1
14	06-00	9	0.65	5.8	13.3	0.503	174	22	316	218	15.5
14	09-00	9	0.64	5.1	13.3	0.561	180	28	293	214	6.4
14	12-00	9	0.62	4.4	13.3	0.293	179	36	276	214	6.0
14	15-00	8	0.62	4.8	7.0	0.212	118	45	282	193	16.8
15	00-00	9	0.62	5.8	8.0	0.240	125	52	266	191	10.6
15	03-00	9	0.67	6.1	8.0	0.383	124	52	120	175	11.0
15	06-00	9	0.62	5.8	12.5	0.348	184	31	2	194	5.1
15	09-00	9	0.56	5.9	9.1	0.231	271	53	58	212	9.0
15	12-00	9	0.61	6.1	11.8	0.310	205	48	165	218	0.6
15	15-00	9	0.65	6.5	9.1	0.344	265	61	99	229	5.6
15	18-00	9	0.69	5.8	11.1	0.433	246	48	331	227	0.9
15	21-00	9	0.79	5.9	11.1	0.673	271	39	77	234	3.7
16	00-00	9	0.78	6.9	10.0	0.859	274	30	173	239	9.0
16	03-00	9	0.74	7.0	11.1	0.535	262	48	54	235	1.3
16	06-00	9	0.80	7.0	9.1	0.643	272	30	8	233	8.4
16	09-00	9	0.79	7.1	10.0	0.996	275	31	59	228	5.6
16	12-00	9	0.85	7.2	10.0	0.944	274	32	276	232	5.6
16	15-00	9	0.88	6.0	10.0	1.041	268	32	170	231	8.1
16	18-00	9	0.84	4.7	8.0	0.482	256	49	227	213	2.5
16	21-00	9	0.81	6.3	10.0	0.968	268	28	284	222	7.4
17	00-00	9	0.68	5.0	9.1	0.450	268	32	252	221	5.7
17	03-00	9	0.70	6.1	10.0	0.561	267	39	257	220	1.5
17	06-00	9	0.76	6.4	10.0	0.563	269	29	256	218	7.6
17	09-00	9	0.69	5.6	9.1	0.504	274	32	285	218	4.0
17	12-00	9	0.71	4.6	9.1	0.465	280	36	282	215	2.2
17	15-00	9	0.84	4.6	9.1	0.832	283	33	280	211	5.6
17	18-00	9	0.76	4.8	8.0	0.510	285	28	280	211	6.7
17	21-00	9	0.73	4.7	9.1	0.439	270	27	286	212	9.2
18	00-00	9	0.62	5.2	9.1	0.348	279	32	285	217	4.4
18	03-00	9	0.68	5.5	8.0	0.470	282	27	288	224	7.0
18	06-00	9	0.76	5.4	18.2	0.466	262	24	272	218	14.5
18	09-00	9	0.79	5.4	18.2	1.093	265	17	287	229	29.0

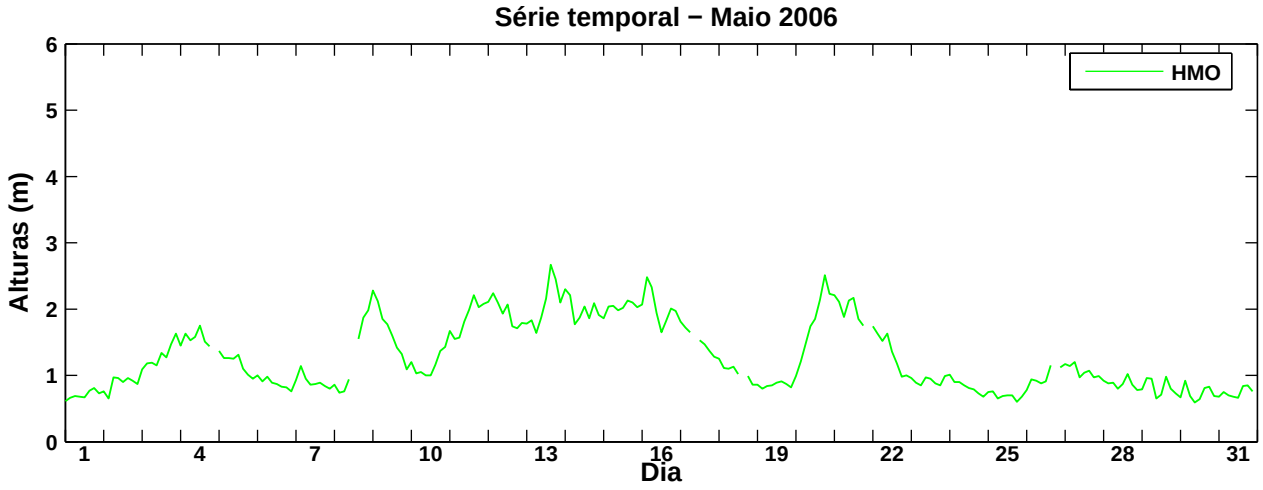
DIA	HORA	NG	HM0 (m)	T02 (s)	TP (s)	SMAX (m2.s)	THTP1 (graus)	SPRTP1 (graus)	THHF1 (graus)	THLF1 (graus)	N
18	12-00	9	0.71	5.5	18.2	0.796	276	33	285	240	5.2
18	15-00	9	0.84	7.3	16.7	2.081	275	19	284	249	25.8
19	03-00	9	1.02	7.1	14.3	3.150	283	19	295	269	17.8
19	06-00	9	1.02	8.0	14.3	3.051	274	22	324	262	17.5
19	09-00	9	0.96	7.3	13.3	2.077	274	25	301	266	7.5
19	12-00	9	1.03	5.8	12.5	1.871	283	23	301	281	12.5
19	15-00	9	1.34	7.9	11.1	3.802	296	18	301	279	22.8
19	18-00	9	1.16	5.9	11.8	1.493	284	24	85	278	10.8
20	18-00	9	0.72	5.2	10.0	0.496	286	29	149	248	4.8
20	21-00	9	0.75	5.7	10.5	0.488	281	30	81	236	5.2
21	00-00	9	0.71	6.0	10.0	0.610	275	20	132	226	14.7
21	03-00	8	0.64	6.4	9.1	0.403	288	22	94	230	17.5
21	06-00	9	0.57	6.3	9.1	0.247	282	29	137	226	5.0
21	09-00	9	0.52	6.1	8.0	0.194	292	31	135	211	5.7
21	12-00	9	0.55	6.3	14.3	0.243	180	28	81	213	8.7
21	15-00	9	0.60	4.1	8.0	0.199	295	28	305	225	10.7
21	18-00	9	0.60	3.6	14.3	0.160	216	47	272	244	0.4
21	21-00	9	0.54	4.4	14.3	0.313	182	35	282	221	3.5
22	03-00	8	0.44	5.3	13.3	0.146	182	35	294	218	3.2
22	06-00	9	0.51	5.5	13.3	0.206	190	28	290	229	6.6
22	09-00	9	0.46	5.1	13.3	0.187	176	32	309	226	5.4
22	12-00	9	0.45	4.4	13.3	0.121	181	43	299	219	3.6
22	15-00	9	0.52	4.1	13.3	0.164	191	42	294	229	2.0
22	18-00	8	0.51	4.7	13.3	0.191	192	30	294	224	7.4
22	21-00	8	0.44	4.7	13.3	0.155	183	42	273	225	3.9
23	00-00	9	0.45	4.8	12.5	0.126	184	36	112	216	5.1
23	03-00	9	0.47	4.4	12.5	0.138	190	27	124	210	7.1
23	06-00	9	0.43	4.8	12.5	0.082	190	36	39	225	5.4
23	09-00	9	0.41	4.4	8.0	0.061	300	47	117	202	9.3
23	12-00	9	0.45	4.6	7.0	0.095	293	61	245	205	6.6
23	15-00	9	0.42	4.5	12.5	0.101	186	38	322	205	9.0
23	18-00	9	0.41	4.3	6.2	0.074	281	62	273	214	10.1
23	21-00	9	0.42	4.4	11.8	0.083	186	33	215	194	4.9
24	00-00	9	0.40	4.5	6.2	0.067	272	75	113	185	10.5
24	03-00	8	0.38	4.6	12.5	0.065	167	36	223	200	3.5
24	06-00	9	0.38	4.6	12.5	0.057	181	30	279	200	8.0
24	09-00	9	0.44	4.4	12.5	0.070	189	39	317	215	4.7
24	12-00	9	0.44	4.3	6.2	0.074	140	79	112	201	12.2
24	15-00	9	0.42	4.3	12.5	0.067	177	46	119	188	1.2
24	18-00	9	0.41	4.1	12.5	0.058	191	46	116	199	0.9
24	21-00	8	0.41	4.5	6.2	0.075	306	67	114	196	12.6
25	00-00	8	0.38	4.3	16.7	0.102	172	42	129	171	6.1
25	03-00	9	0.39	4.8	15.4	0.124	183	39	111	181	7.7
25	06-00	8	0.41	4.7	15.4	0.119	190	31	316	192	8.7
25	09-00	9	0.40	4.7	15.4	0.169	190	39	243	195	4.2

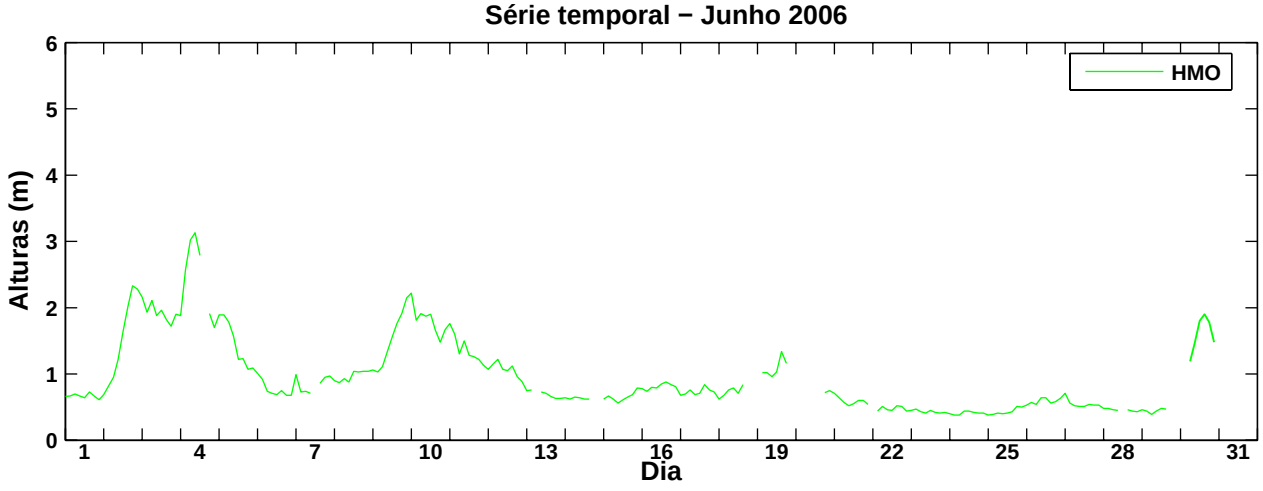
DIA	HORA	NG	HM0 (m)	T02 (s)	TP (s)	SMAX (m2.s)	THTP1 (graus)	SPRTP1 (graus)	THHF1 (graus)	THLF1 (graus)	N
25	12-00	9	0.41	4.2	15.4	0.235	176	48	130	173	5.4
25	15-00	9	0.43	4.8	15.4	0.290	174	41	135	176	3.5
25	18-00	9	0.51	3.9	15.4	0.394	190	36	52	179	7.8
25	21-00	9	0.50	5.9	14.3	0.420	188	27	263	208	6.0
26	00-00	9	0.53	5.4	14.3	0.619	183	28	308	184	15.8
26	03-00	9	0.57	5.4	14.3	0.709	178	30	288	183	5.1
26	06-00	9	0.54	4.2	14.3	0.315	189	34	301	193	5.1
26	09-00	9	0.64	4.5	14.3	0.625	188	29	295	199	11.1
26	12-00	9	0.64	4.7	13.3	0.906	180	27	295	196	9.0
26	15-00	9	0.56	3.9	14.3	0.356	169	45	288	188	2.0
26	18-00	9	0.58	4.0	14.3	0.508	185	29	299	206	8.3
26	21-00	9	0.63	4.3	13.3	0.585	194	32	294	208	5.2
27	00-00	9	0.71	3.3	13.3	0.431	174	46	309	217	1.8
27	03-00	9	0.56	4.4	13.3	0.471	177	32	330	196	7.3
27	06-00	9	0.52	4.3	14.3	0.394	181	34	303	194	4.4
27	09-00	9	0.51	4.9	13.3	0.385	186	26	288	204	12.6
27	12-00	9	0.51	4.5	13.3	0.365	187	25	259	205	14.7
27	15-00	9	0.54	5.3	13.3	0.575	173	27	176	195	11.0
27	18-00	9	0.53	5.0	13.3	0.563	178	32	289	185	6.8
27	21-00	9	0.53	5.9	12.5	0.501	187	27	289	202	14.6
28	00-00	9	0.48	4.8	13.3	0.383	188	24	292	199	15.8
28	03-00	9	0.48	5.4	13.3	0.401	189	24	287	191	11.0
28	06-00	9	0.46	5.0	12.5	0.409	190	24	284	188	10.2
28	09-00	9	0.45	5.6	12.5	0.383	187	28	283	193	8.4
28	15-00	9	0.46	4.2	12.5	0.323	190	32	284	194	7.5
28	18-00	8	0.44	3.5	11.8	0.184	191	28	293	205	7.6
28	21-00	9	0.43	4.5	12.5	0.274	187	27	285	199	9.6
29	00-00	9	0.46	5.2	11.8	0.268	187	30	288	199	7.7
29	03-00	9	0.44	5.5	11.8	0.397	180	26	287	191	10.1
29	06-00	8	0.39	4.8	11.8	0.170	180	33	287	198	4.9
29	09-00	9	0.44	5.0	11.8	0.292	187	28	288	192	9.2
29	12-00	9	0.48	4.5	11.8	0.398	189	23	282	187	8.9
29	15-00	9	0.47	4.2	11.8	0.308	176	33	227	177	5.9
30	06-00	9	1.19	4.2	4.9	0.648	271	38	238	198	2.1
30	09-00	9	1.47	4.4	4.9	1.140	244	40	243	219	0.8
30	12-00	9	1.80	5.0	7.0	2.978	282	18	243	220	12.3
30	15-00	9	1.90	5.2	7.0	3.782	272	22	225	200	7.4
30	18-00	9	1.78	5.0	7.0	3.521	269	26	228	200	3.7
30	21-00	9	1.48	4.6	6.2	1.399	258	26	237	211	5.1

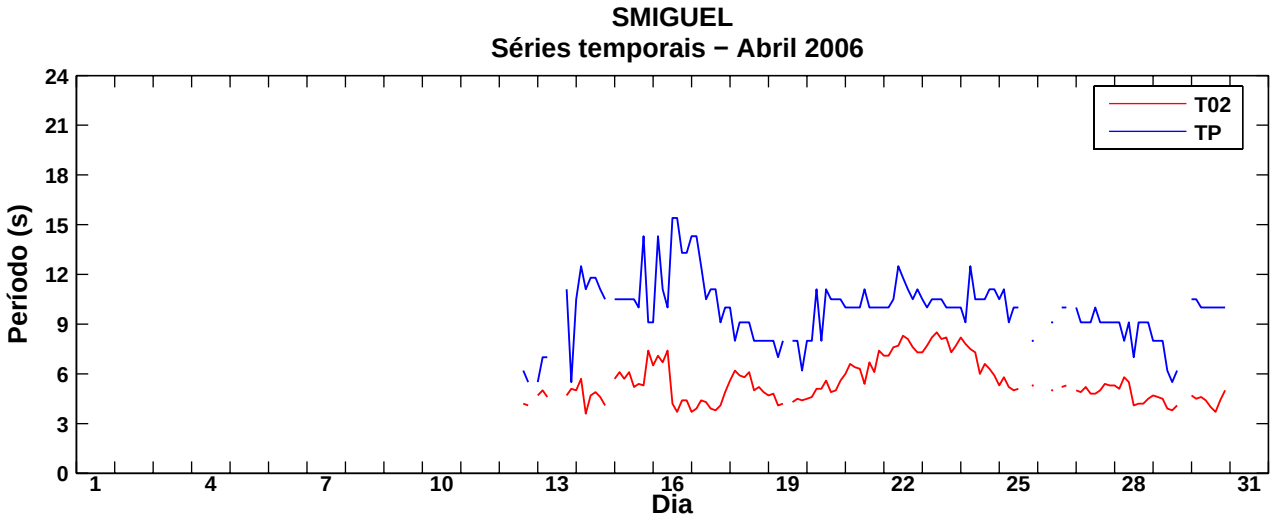
ANEXO E

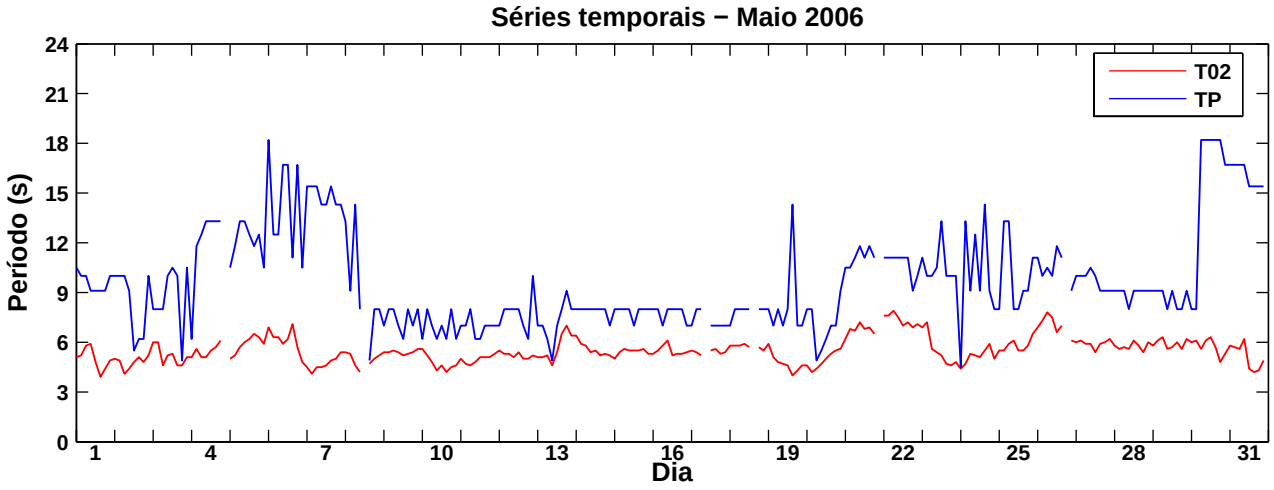
Gráficos temporais de HM0, T02, TP, THTP1, SPRTP1, THHF1 E THLF1

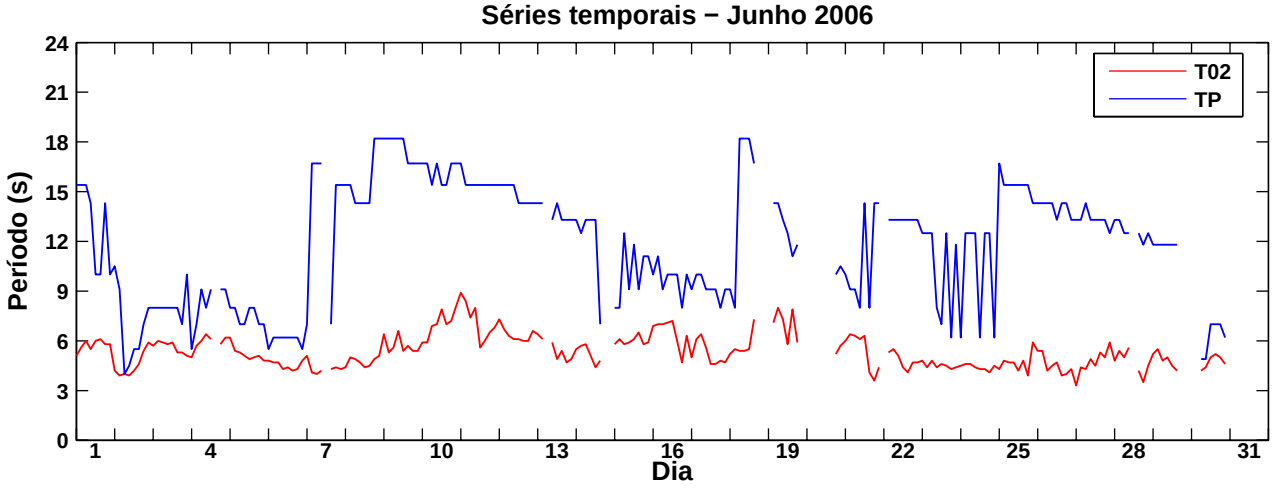

SMIGUEL
Série temporal − Abril 2006
HMO
Alturas (m)
Dia
0
1
2
3
4
5
6
1
4
7
10
13
16
19
22
25
28
31


Série temporal − Maio 2006
HMO
Alturas (m)
Dia
0
1
2
3
4
5
6
1
4
7
10
13
16
19
22
25
28
31


Série temporal − Junho 2006
HMO
Alturas (m)
Dia
0
1
2
3
4
5
6
1
4
7
10
13
16
19
22
25
28
31

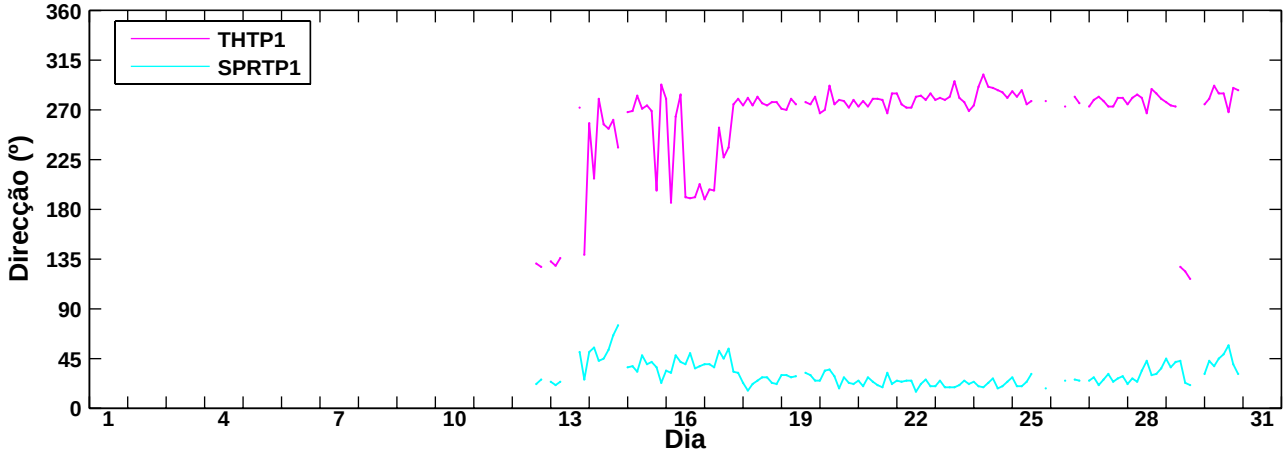

SMIGUEL
Séries temporais − Abril 2006
Período (s)
Dia
T02
TP


Séries temporais − Maio 2006
Período (s)
Dia
T02
TP

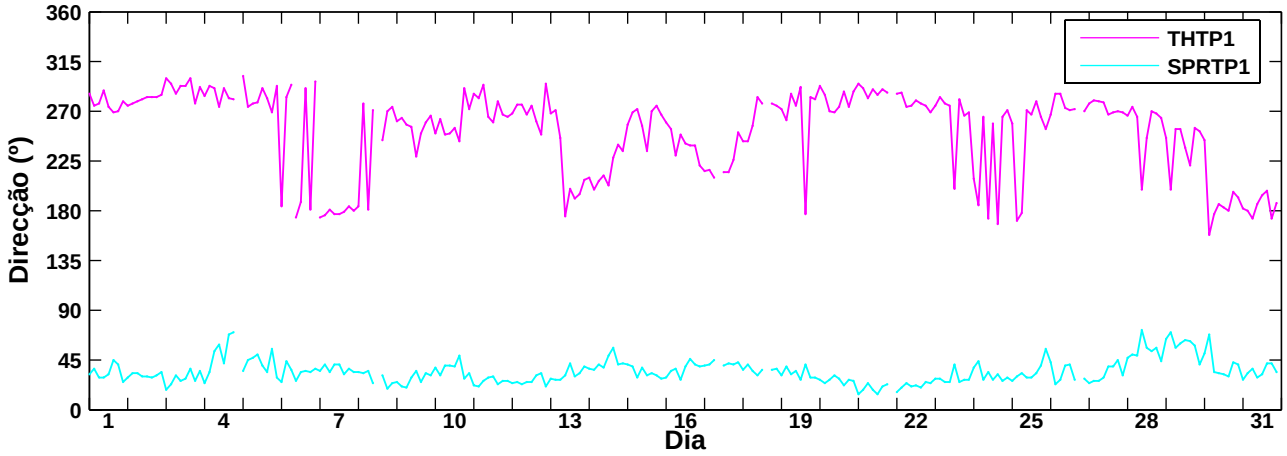

Séries temporais − Junho 2006
Período (s)
Dia
T02
TP

SMIGUEL

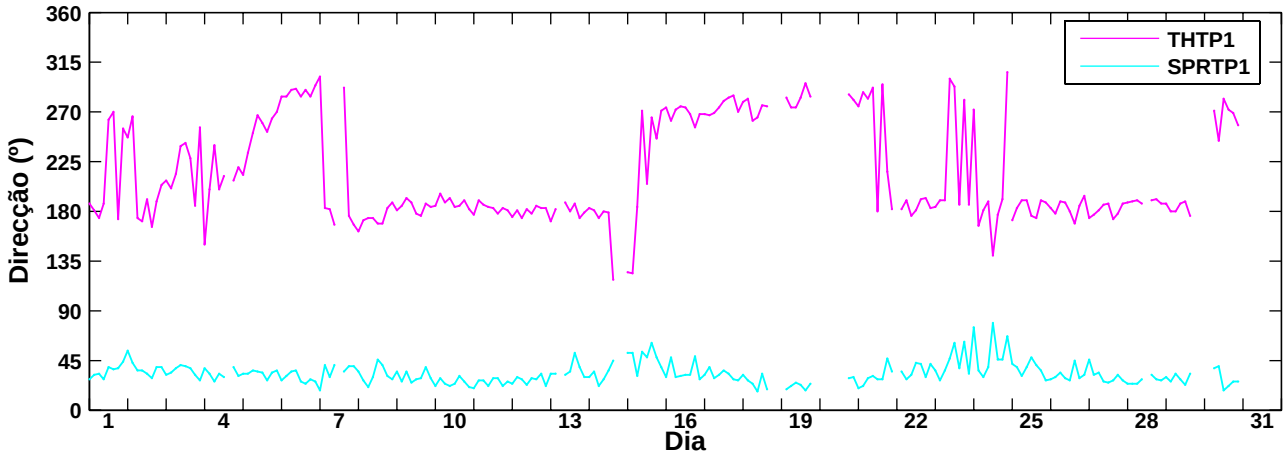
Séries temporais − Abril 2006



Séries temporais − Maio 2006

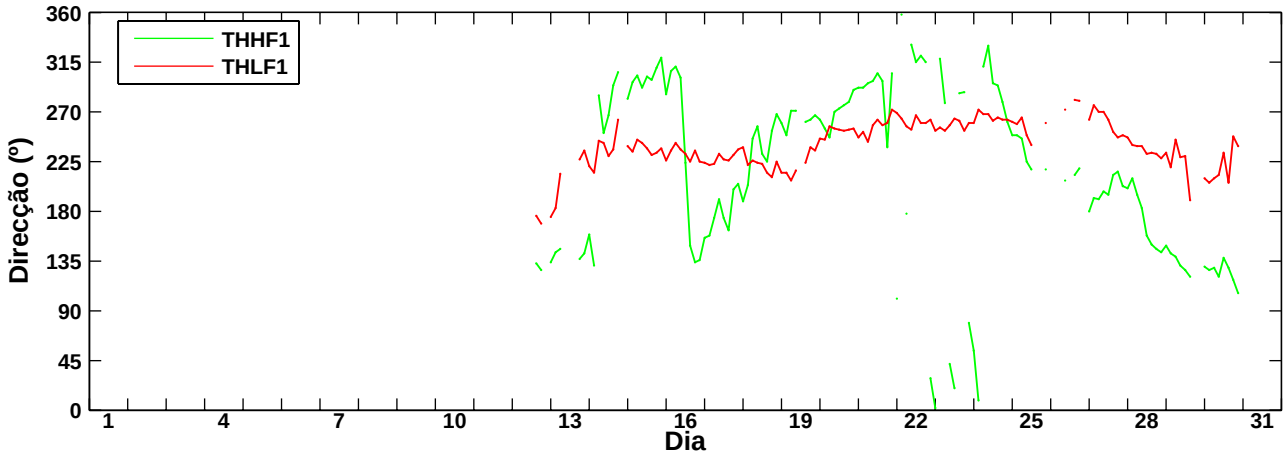


Séries temporais − Junho 2006

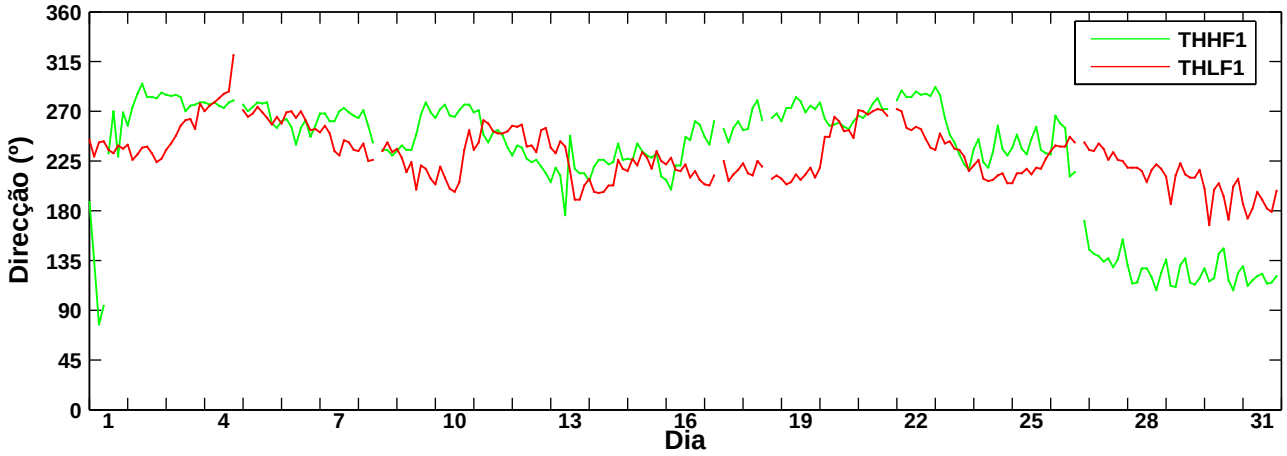


SMIGUEL

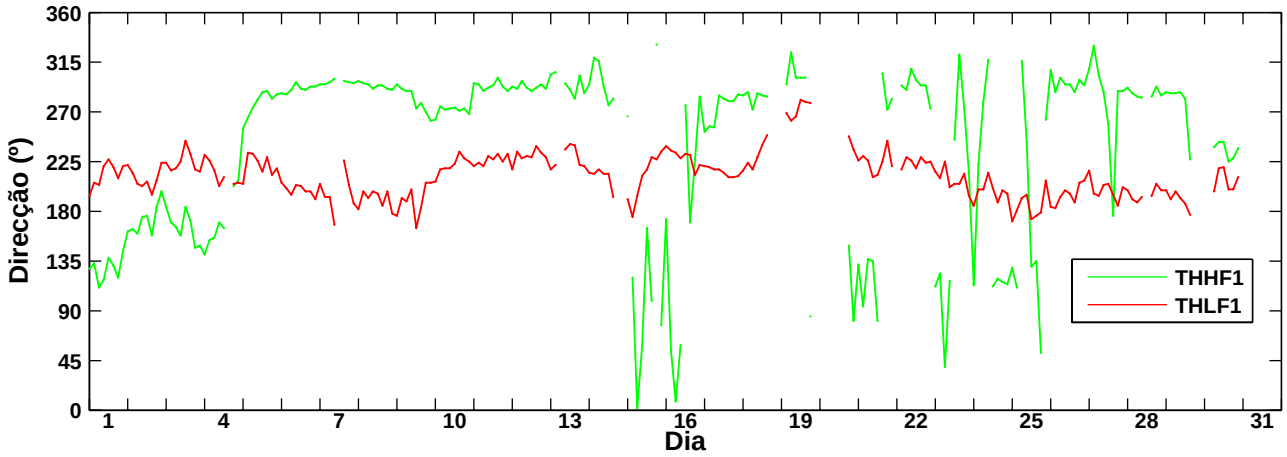
Séries temporais − Abril 2006



Séries temporais − Maio 2006



Séries temporais − Junho 2006



ANEXO F

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

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL ABR 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- .5		1																1	.8	3.9
.5- 1.0		8	31	22	12	15	6											94	71.2	5.6
1.0- 1.5			13	12	3	2	1											31	23.5	5.3
1.5- 2.0				6														6	4.5	5.2
2.0- 2.5																				
2.5- 3.0																				
3.0- 3.5																				
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		9	44	40	15	17	7											132	100	
%		6.8	33.3	30.3	11.4	12.9	5.3											100		
MED		.6	.8	1.0	.9	.8	.9													

T02

MED 5.5 MIN 3.6 MAX 8.5

DES.PAD 1.3 ASSIM .73 CURT 2.50

HM0

MED .87 MIN .49 MAX 1.68

DES.PAD .28 ASSIM .85 CURT 2.93

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL MAI 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- .5																				
.5- 1.0		1	32	49	22	5												109	45.0	5.5
1.0- 1.5			13	23	11	4												51	21.1	5.5
1.5- 2.0			6	34	4	4												48	19.8	5.5
2.0- 2.5				25	5	2												32	13.2	5.7
2.5- 3.0				1	1													2	.8	6.0
3.0- 3.5																				
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	51	132	43	15												242	100	
%		.4	21.1	54.5	17.8	6.2												100		
MED		.8	1.0	1.4	1.2	1.3														

T02

MED 5.5 MIN 3.9 MAX 7.9

DES.PAD .8 ASSIM .62 CURT 3.36

HM0

MED 1.28 MIN .59 MAX 2.67

DES.PAD .52 ASSIM .63 CURT 2.09

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- .5		1	30	8														39	17.8	4.6
.5- 1.0		5	41	34	20	6												106	48.4	5.3
1.0- 1.5		1	9	8	10	5	1											34	15.5	5.8
1.5- 2.0			1	17	4	3	4											29	13.2	6.1
2.0- 2.5			1	6														7	3.2	5.5
2.5- 3.0				1	1													2	.9	5.9
3.0- 3.5					2													2	.9	6.2
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		7	82	74	37	14	5											219	100	
%		3.2	37.4	33.8	16.9	6.4	2.3											100		
MED		.7	.7	1.1	1.1	1.2	1.5													

T02

MED 5.4 MIN 3.3 MAX 8.9

DES.PAD 1.0 ASSIM .76 CURT 3.43

HM0

MED .95 MIN .38 MAX 3.13

DES.PAD .56 ASSIM 1.40 CURT 4.52

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- .5													1					1	.8	14.3
.5- 1.0				2	1	4	11	15	38	12	4	2	3	2				94	71.2	10.0
1.0- 1.5				2	3		5	5	12	4								31	23.5	9.1
1.5- 2.0							1	1	3	1								6	4.5	9.7
2.0- 2.5																				
2.5- 3.0																				
3.0- 3.5																				
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				4	4	4	17	21	53	17	4	2	4	2				132	100	
%				3.0	3.0	3.0	12.9	15.9	40.2	12.9	3.0	1.5	3.0	1.5				100		
MED				.9	1.0	.8	.9	.9	.9	.9	.7	.5	.6	.6						

TP

MED 9.8 MIN 5.5 MAX 15.4

DES.PAD 1.9 ASSIM .21 CURT 3.95

HM0

MED .87 MIN .49 MAX 1.68

DES.PAD .28 ASSIM .85 CURT 2.93

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL MAI 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- .5																				
.5- 1.0				1	2	4	17	25	20	5	3	5	7	7	8		5	109	45.0	11.1
1.0- 1.5			3		5	7	12	3	9	5	2	3		1			1	51	21.1	9.1
1.5- 2.0			2	1	6	10	15		2	8	1	3						48	19.8	8.4
2.0- 2.5						9	17	2	2	2								32	13.2	8.2
2.5- 3.0						1	1											2	.8	7.5
3.0- 3.5																				
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			5	2	13	31	62	30	33	20	6	11	7	8	8		6	242	100	
%			2.1	.8	5.4	12.8	25.6	12.4	13.6	8.3	2.5	4.5	2.9	3.3	3.3		2.5	100		
MED			1.5	1.3	1.4	1.7	1.5	1.0	1.1	1.4	1.1	1.2	.8	.9	.8		.8			

TP

MED 9.7 MIN 4.5 MAX 18.2

DES.PAD 3.0 ASSIM 1.04 CURT 3.51

HM0

MED 1.28 MIN .59 MAX 2.67

DES.PAD .52 ASSIM .63 CURT 2.09

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- .5					4	1	1			8	13	6		5	1			39	17.8	12.1
.5- 1.0			1	1	6	3	7	12	14	4	3	20	20	8	4		3	106	48.4	11.8
1.0- 1.5			3	1	1	2	2			2	1		6	9	1		6	34	15.5	13.0
1.5- 2.0				2		6	6	2	1					5	6		1	29	13.2	11.2
2.0- 2.5				1		1	3								2			7	3.2	10.0
2.5- 3.0						1		1										2	.9	8.1
3.0- 3.5							1	1										2	.9	8.6
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			4	5	11	14	20	16	15	14	17	26	26	27	14		10	219	100	
%			1.8	2.3	5.0	6.4	9.1	7.3	6.8	6.4	7.8	11.9	11.9	12.3	6.4		4.6	100		
MED			1.2	1.4	.7	1.5	1.4	1.1	.8	.6	.5	.6	.8	1.0	1.4		1.0			

TP

MED 11.8 MIN 4.0 MAX 18.2

DES.PAD 3.6 ASSIM -.20 CURT 1.95

HM0

MED .95 MIN .38 MAX 3.13

DES.PAD .56 ASSIM 1.40 CURT 4.52

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL ABR 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							1						1	.8	198
.5- 1.0					5		9	3	13	63	1		94	71.2	267
1.0- 1.5				1	3				1	26			31	23.5	275
1.5- 2.0										6			6	4.5	279
2.0- 2.5															
2.5- 3.0															
3.0- 3.5															
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	8		10	3	14	95	1		132	100	
%				.8	6.1		7.6	2.3	10.6	72.0	.8		100		
MED				1.0	.9		.6	.6	.7	.9	1.0				

THTP1				HM0		
MED 269	MIN 117	MAX 302		MED .87	MIN .49	MAX 1.68
DES.PAD .66	ASSIM 2.90	CURT 7.70		DES.PAD .28	ASSIM .85	CURT 2.93

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL MAI 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						14	22	2	24	47			109	45.0	246
1.0- 1.5						1	2	2	17	26	3		51	21.1	267
1.5- 2.0						1	1	10	15	21			48	19.8	259
2.0- 2.5							5	4	10	13			32	13.2	257
2.5- 3.0							1			1			2	.8	233
3.0- 3.5															
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						16	31	18	66	108	3		242	100	
%						6.6	12.8	7.4	27.3	44.6	1.2		100		
MED						.9	1.1	1.7	1.3	1.3	1.2				

THTP1				HM0			
MED 255	MIN 158	MAX 302		MED 1.28	MIN .59	MAX 2.67	
DES.PAD .66	ASSIM 2.35	CURT .10		DES.PAD .52	ASSIM .63	CURT 2.09	

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL JUN 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					1	7	26			3	2		39	17.8	191
.5- 1.0				1	2	21	33	1	15	32	1		106	48.4	222
1.0- 1.5						7	14		5	8			34	15.5	212
1.5- 2.0						4	13	5	5	2			29	13.2	210
2.0- 2.5						1	5	1					7	3.2	193
2.5- 3.0							1	1					2	.9	206
3.0- 3.5							1		1				2	.9	220
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	3	40	93	8	26	45	3		219	100	
%				.5	1.4	18.3	42.5	3.7	11.9	20.5	1.4		100		
MED				.6	.6	.9	.9	1.8	1.1	.8	.6				

THTP1				HM0		
MED 211	MIN 118	MAX 306		MED .95	MIN .38	MAX 3.13
DES.PAD .82	ASSIM -1.52	CURT -1.22		DES.PAD .56	ASSIM 1.40	CURT 4.52

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL ABR 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					4								4	3.0	131
6.0- 7.0				1	2					1			4	3.0	136
7.0- 8.0					2				1	1			4	3.0	203
8.0- 9.0									1	16			17	12.9	275
9.0-10.0										21			21	15.9	281
10.0-11.0								1	8	44			53	40.2	277
11.0-12.0								2	4	11			17	12.9	271
12.0-13.0							2			1	1		4	3.0	244
13.0-14.0							2						2	1.5	197
14.0-15.0							4						4	3.0	193
15.0-16.0							2						2	1.5	191
16.0-17.0															
17.0-18.0															
>18.0															
SOMA				1	8		10	3	14	95	1		132	100	
%				.8	6.1		7.6	2.3	10.6	72.0	.8		100		
MED				6.2	6.1		14.0	10.9	10.2	9.6	12.5				

THTP1			TP		
MED 269	MIN 117	MAX 302	MED 9.8	MIN 5.5	MAX 15.4
DES.PAD .66	ASSIM 2.90	CURT 7.70	DES.PAD 1.89	ASSIM .21	CURT 3.95

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL MAI 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						1	1		1	2			5	2.1	236
5.0- 6.0									1	1			2	.8	276
6.0- 7.0								1	7	5			13	5.4	261
7.0- 8.0							1	8	13	9			31	12.8	254
8.0- 9.0						1	6	8	22	24	1		62	25.6	256
9.0-10.0							2	1	15	12			30	12.4	263
10.0-11.0									4	27	2		33	13.6	283
11.0-12.0									2	18			20	8.3	280
12.0-13.0						1			1	4			6	2.5	274
13.0-14.0						2	3			6			11	4.5	238
14.0-15.0						4	3						7	2.9	178
15.0-16.0						4	4						8	3.3	183
16.0-17.0						2	6						8	3.3	182
17.0-18.0															
>18.0						1	5						6	2.5	184
SOMA						16	31	18	66	108	3		242	100	
%						6.6	12.8	7.4	27.3	44.6	1.2		100		
MED						13.9	13.3	7.5	8.1	9.4	9.5				

THTP1				TP			
MED 255	MIN 158	MAX 302		MED 9.7	MIN 4.5	MAX 18.2	
DES.PAD .66	ASSIM 2.35	CURT .10		DES.PAD 3.03	ASSIM 1.04	CURT 3.51	

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL JUN 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						2			1	1			4	1.8	214
5.0- 6.0						2	1			2			5	2.3	212
6.0- 7.0					1				1	8	1		11	5.0	280
7.0- 8.0				1			3		4	5	1		14	6.4	256
8.0- 9.0					2		4	5	4	4	1		20	9.1	237
9.0-10.0							1	2	4	9			16	7.3	262
10.0-11.0									8	7			15	6.8	269
11.0-12.0						1	8		2	3			14	6.4	214
12.0-13.0						2	14			1			17	7.8	189
13.0-14.0						9	16			1			26	11.9	185
14.0-15.0						9	14	1		2			26	11.9	186
15.0-16.0						10	17						27	12.3	181
16.0-17.0						4	9			1			14	6.4	187
17.0-18.0															
>18.0						1	6		2	1			10	4.6	207
SOMA				1	3	40	93	8	26	45	3		219	100	
%				.5	1.4	18.3	42.5	3.7	11.9	20.5	1.4		100		
MED				7.0	7.4	13.6	13.7	9.1	9.5	9.1	7.1				

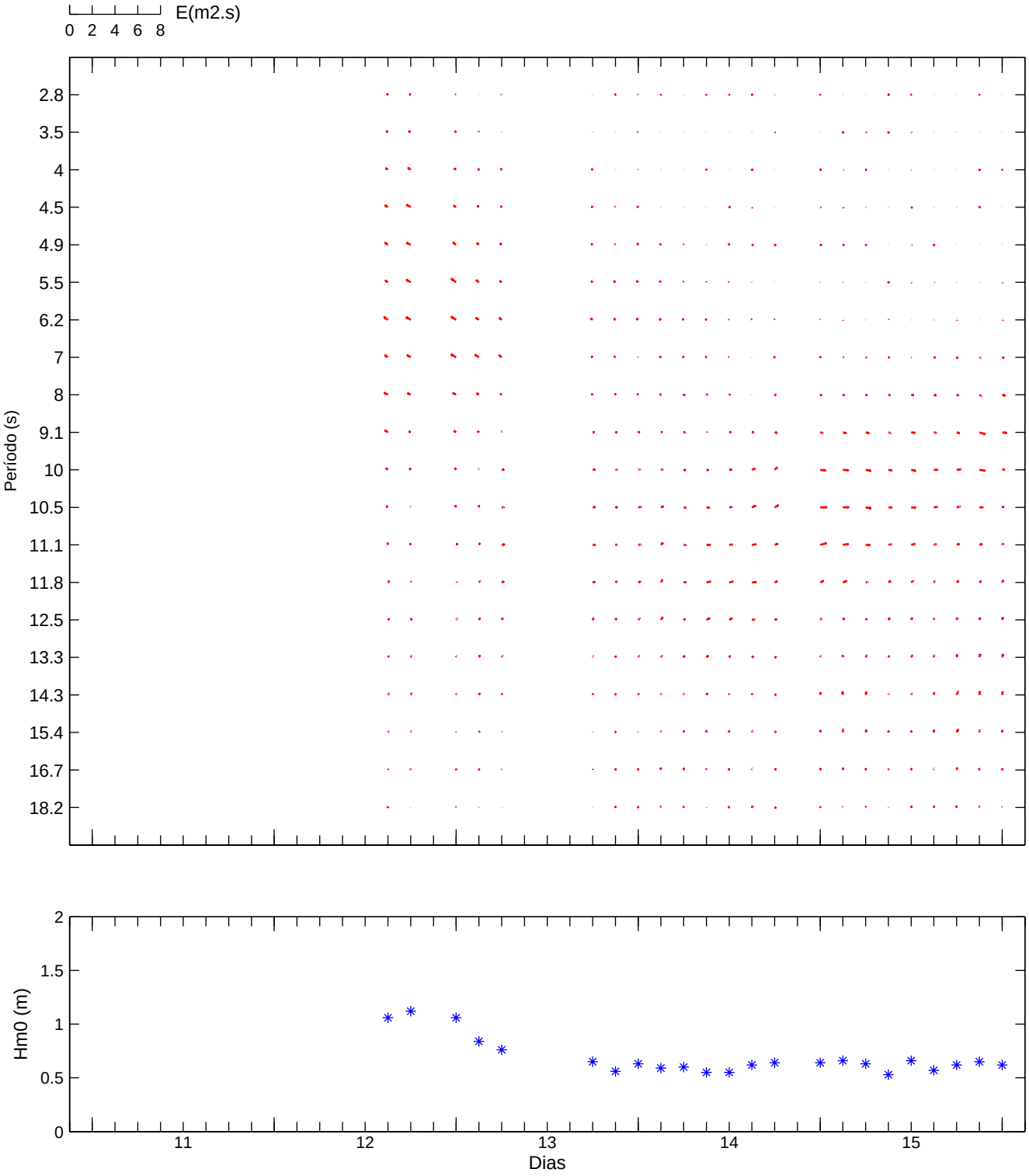
THTP1			TP		
MED 211	MIN 118	MAX 306	MED 11.8	MIN 4.0	MAX 18.2
DES.PAD .82	ASSIM -1.52	CURT -1.22	DES.PAD 3.62	ASSIM -.20	CURT 1.95

ANEXO G

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

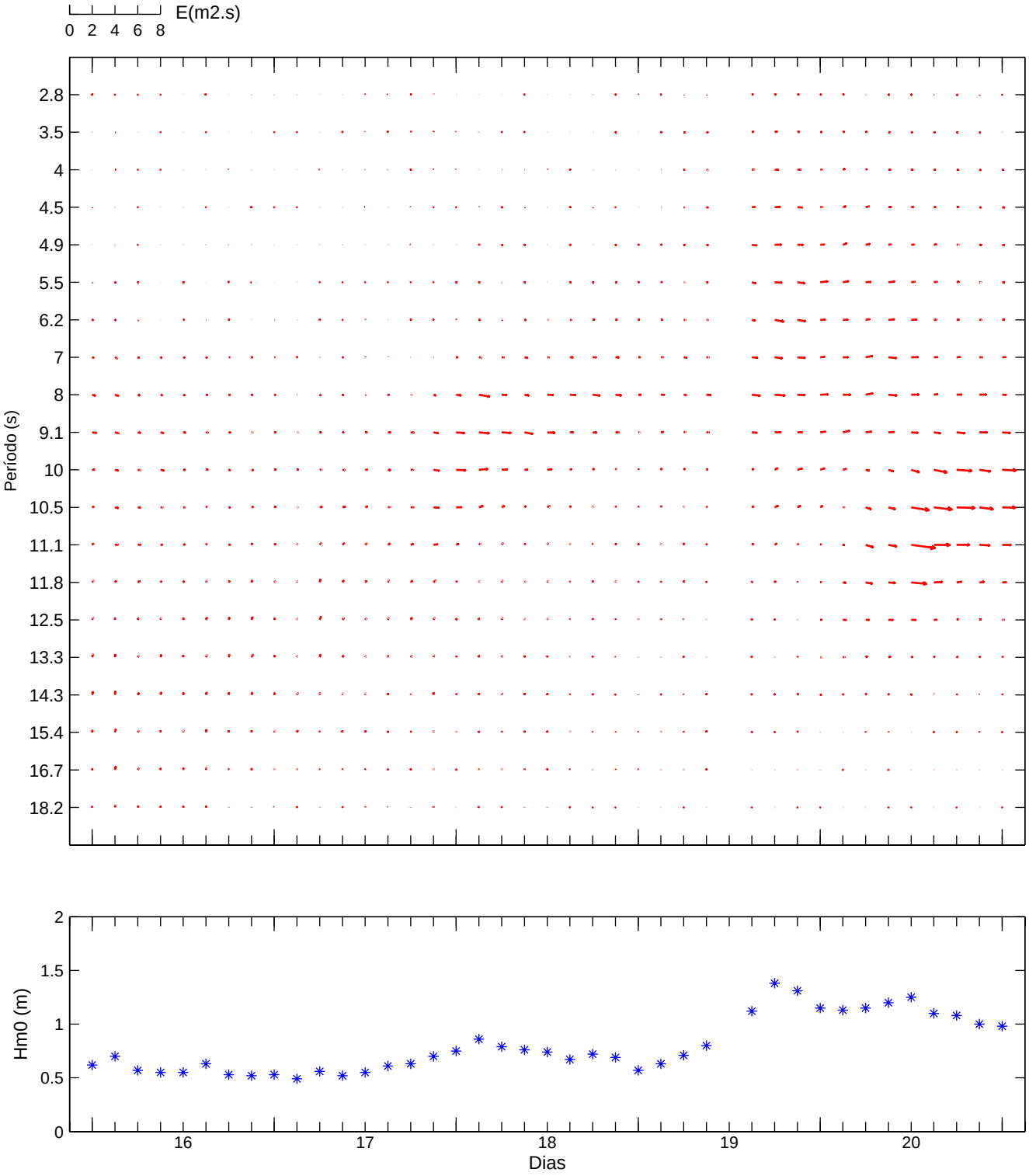
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − SMIGUEL 2006 ABR 11−15



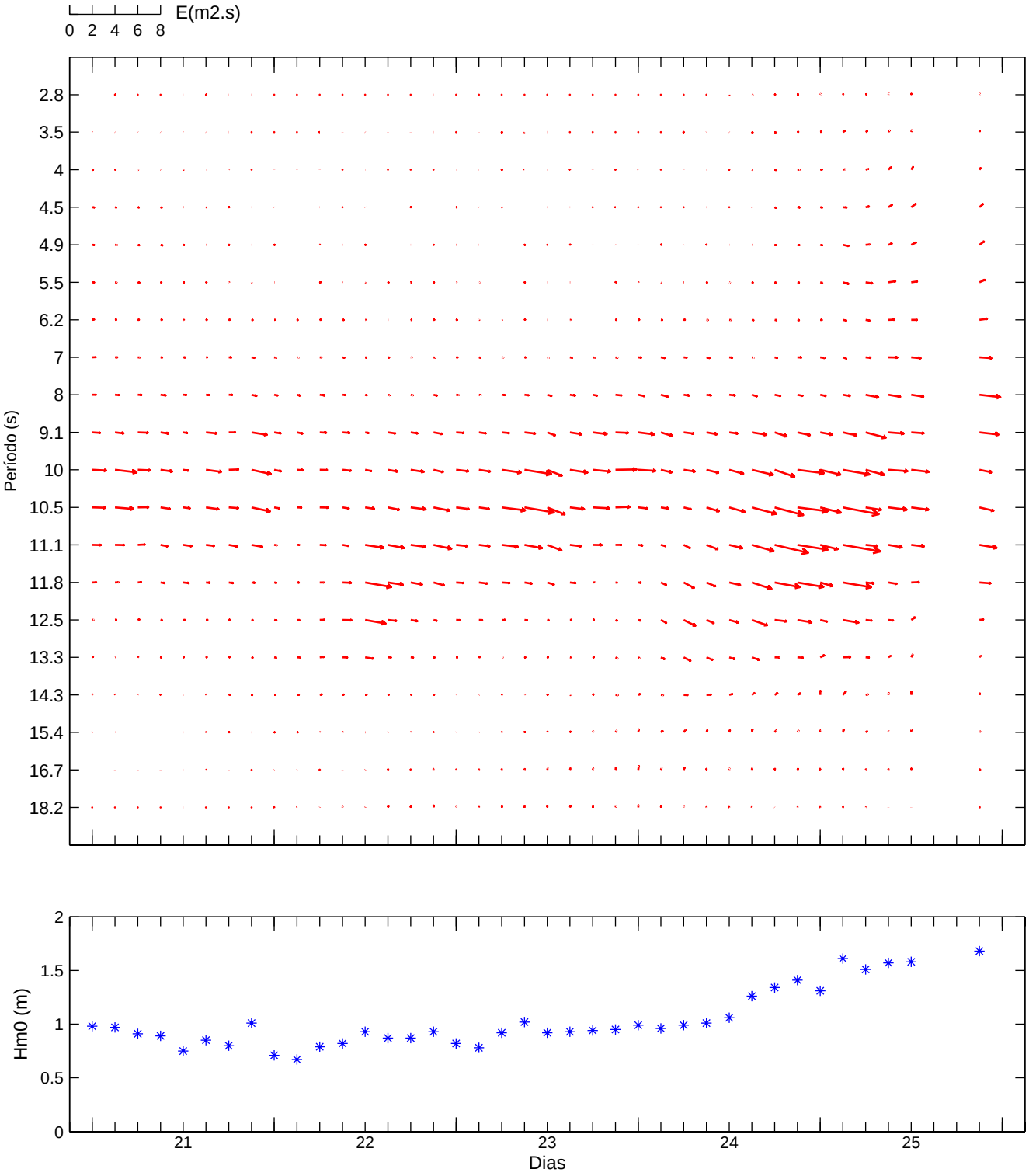
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − SMIGUEL 2006 ABR 16−20



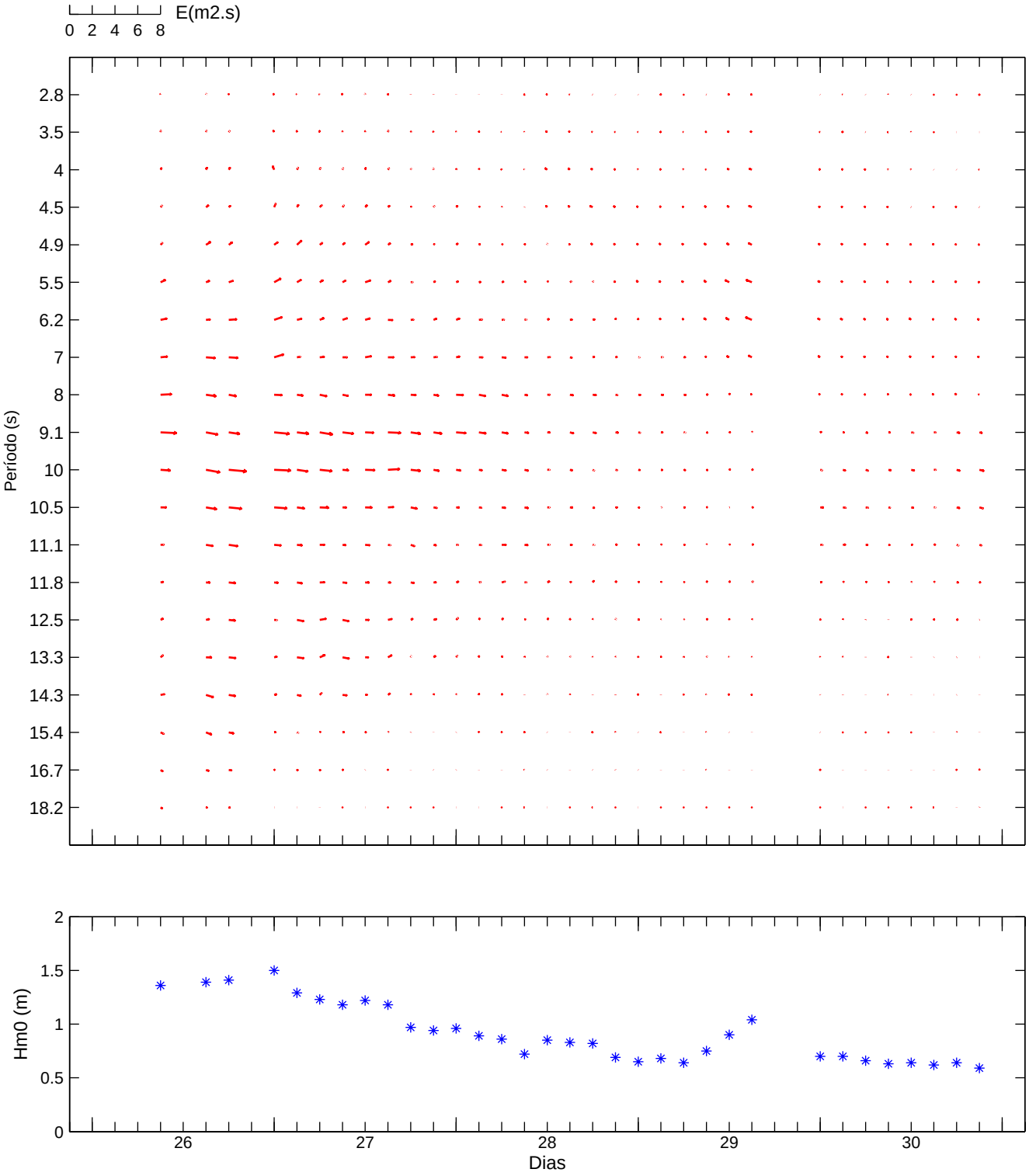
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − SMIGUEL 2006 ABR 21−25



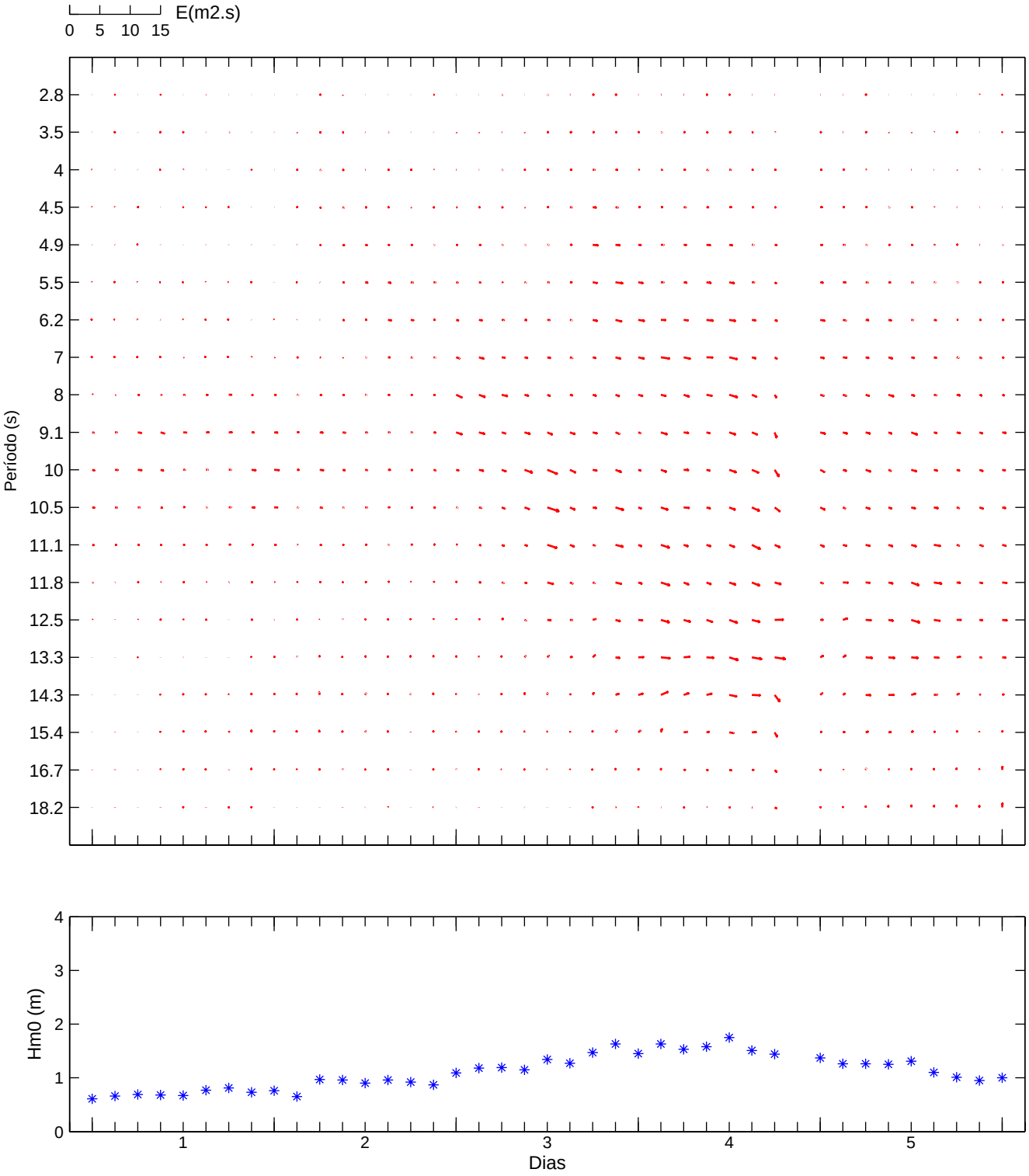
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − SMIGUEL 2006 ABR 26−30



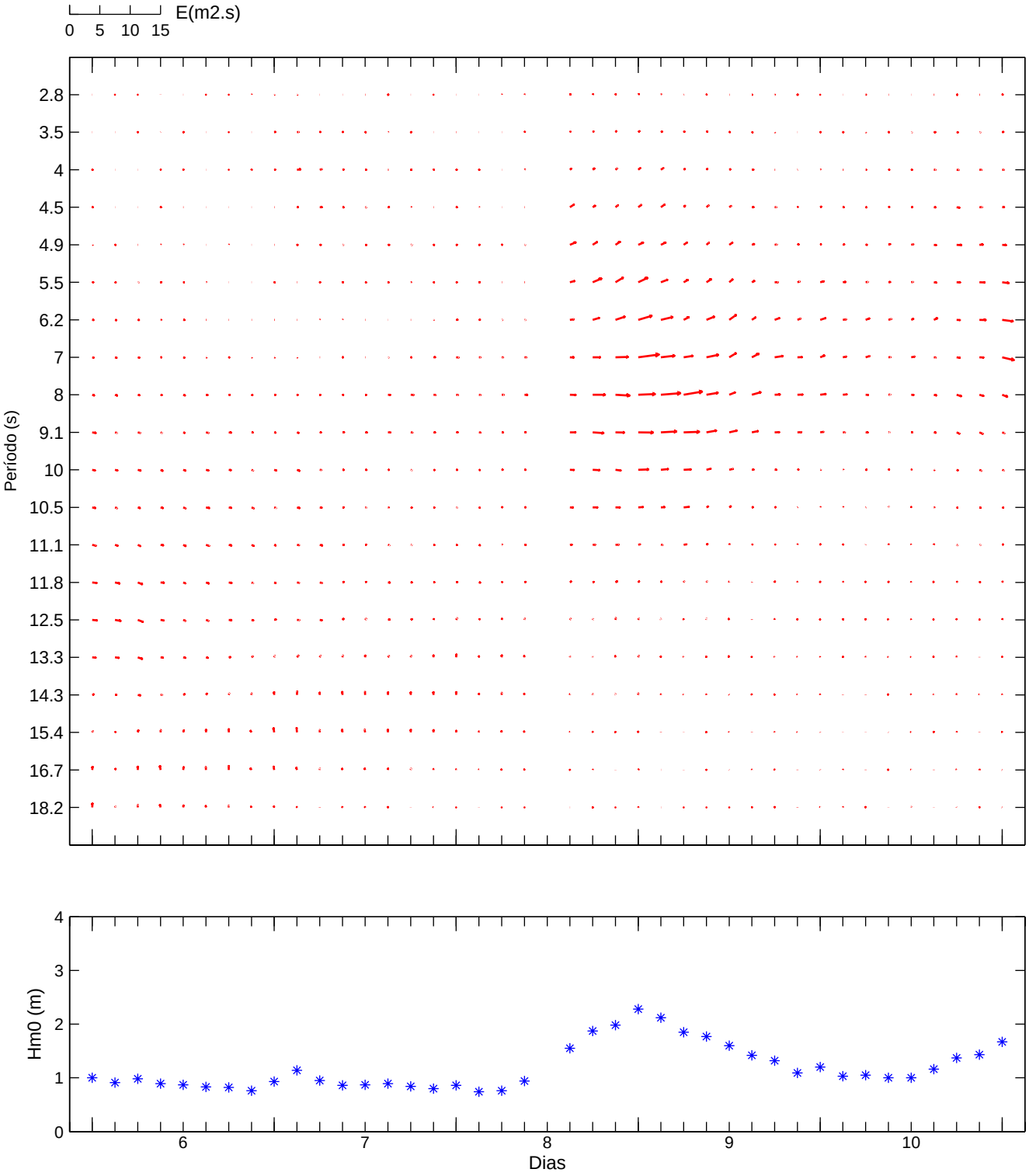
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − SMIGUEL 2006 MAI 1−5



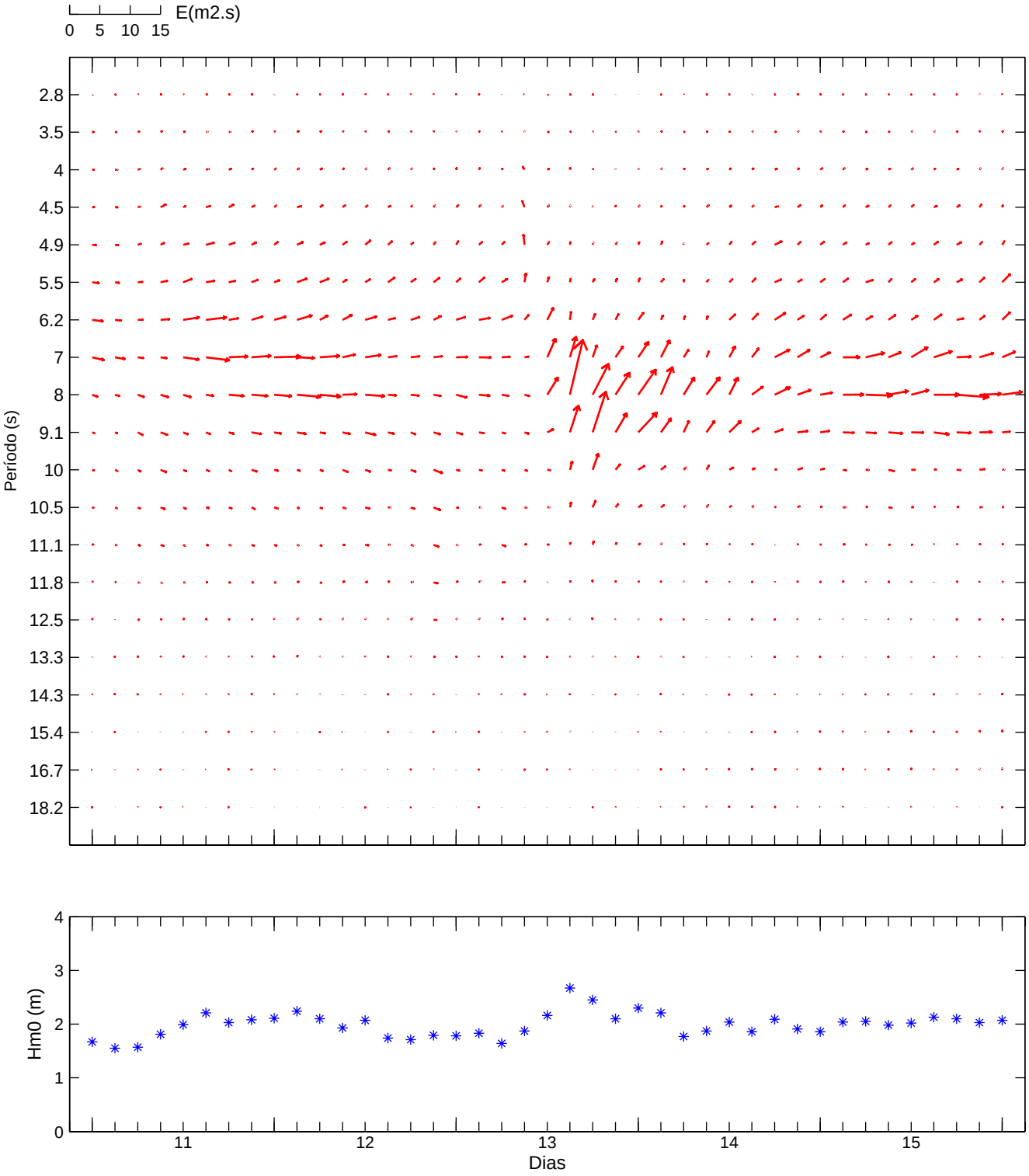
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − SMIGUEL 2006 MAI 6−10



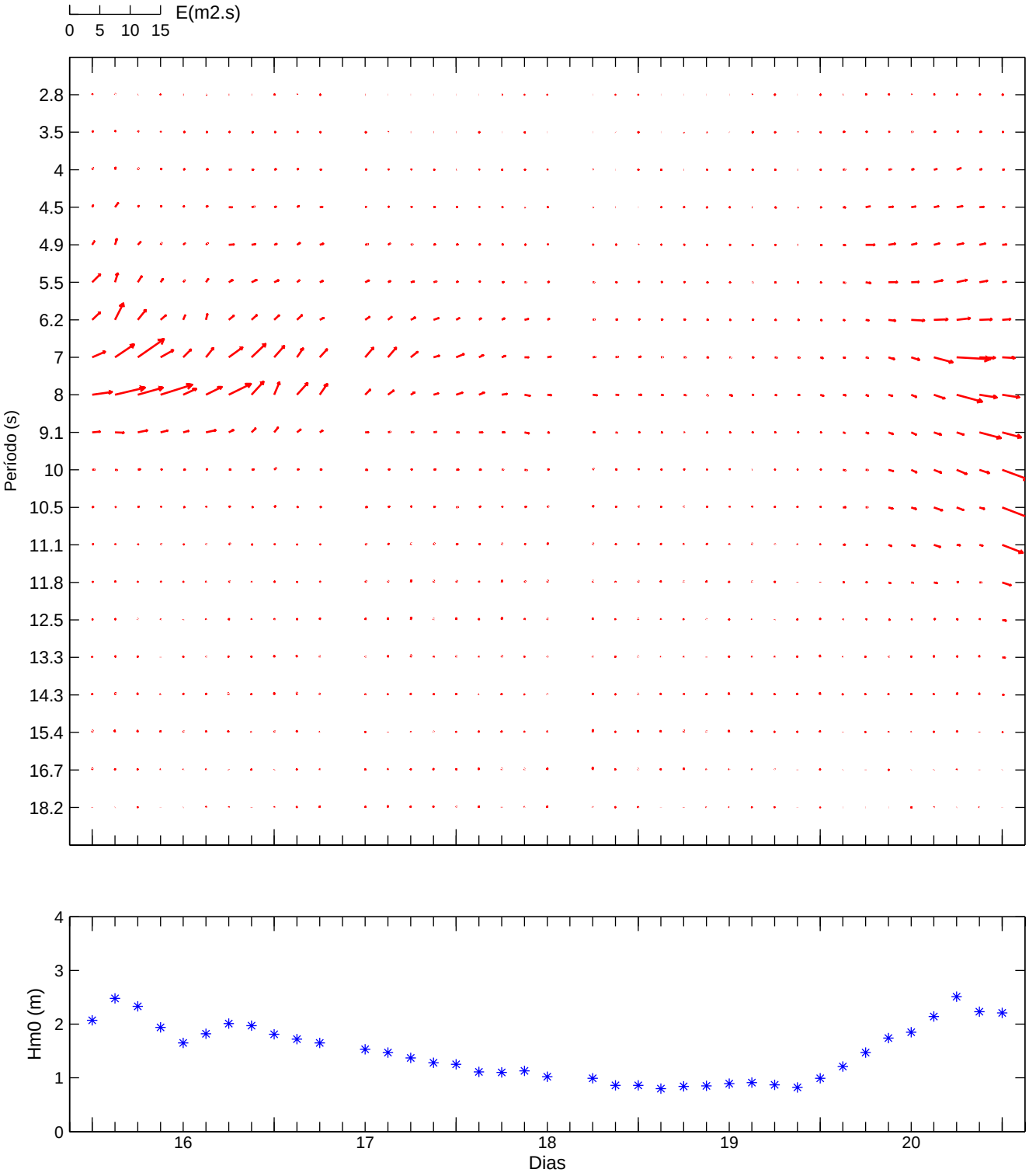
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − SMIGUEL 2006 MAI 11−15



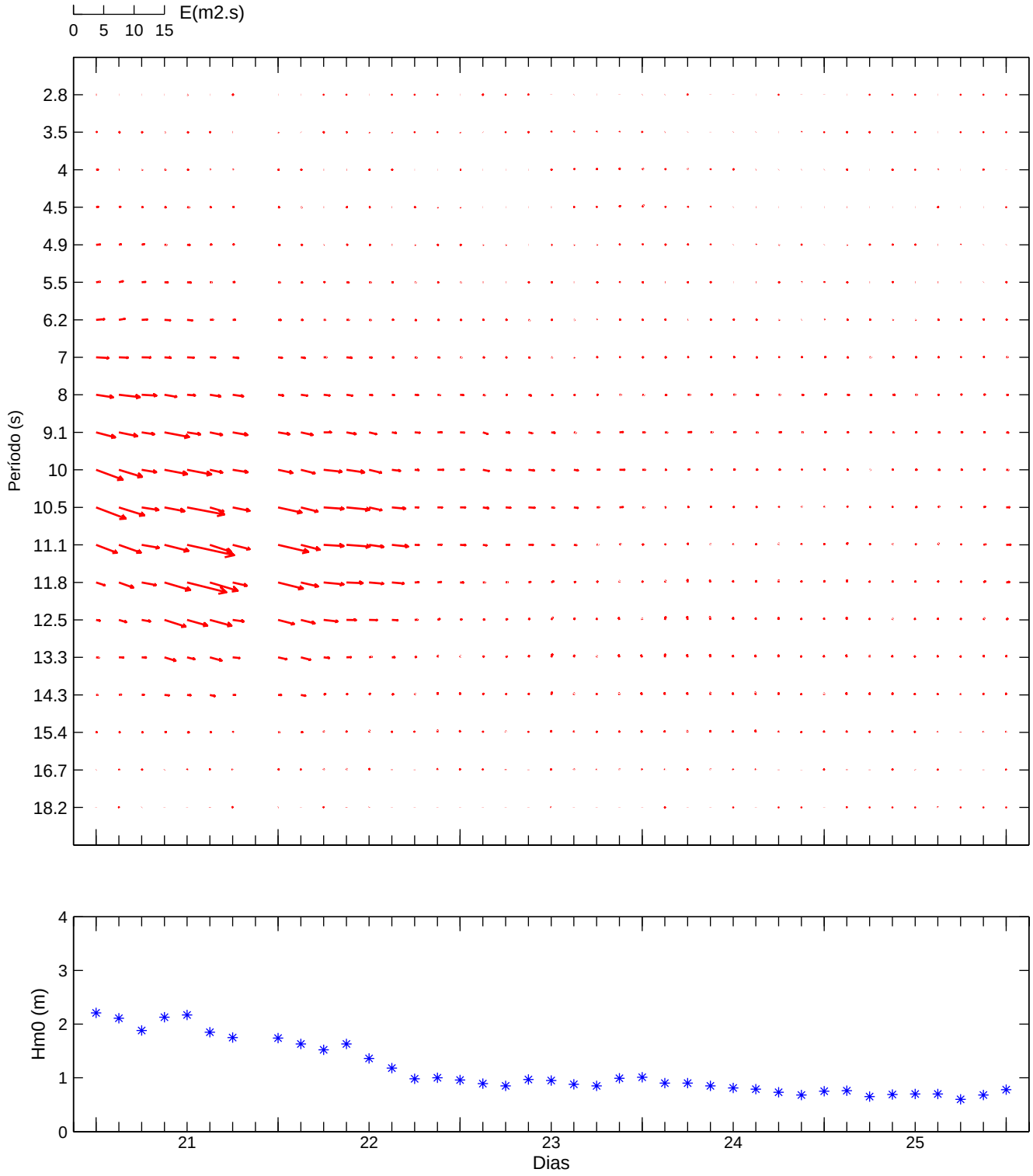
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − SMIGUEL 2006 MAI 16−20



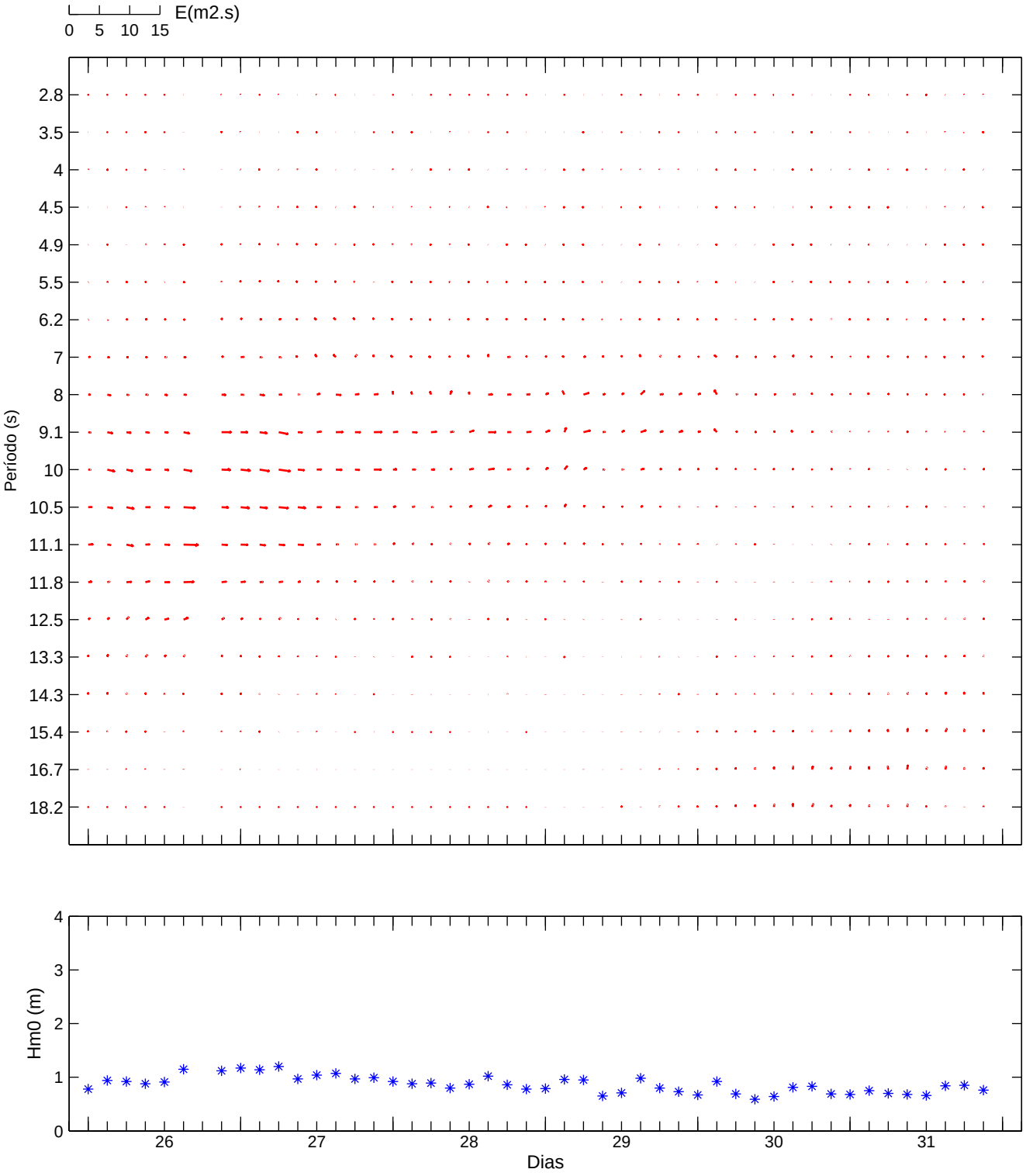
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − SMIGUEL 2006 MAI 21−25



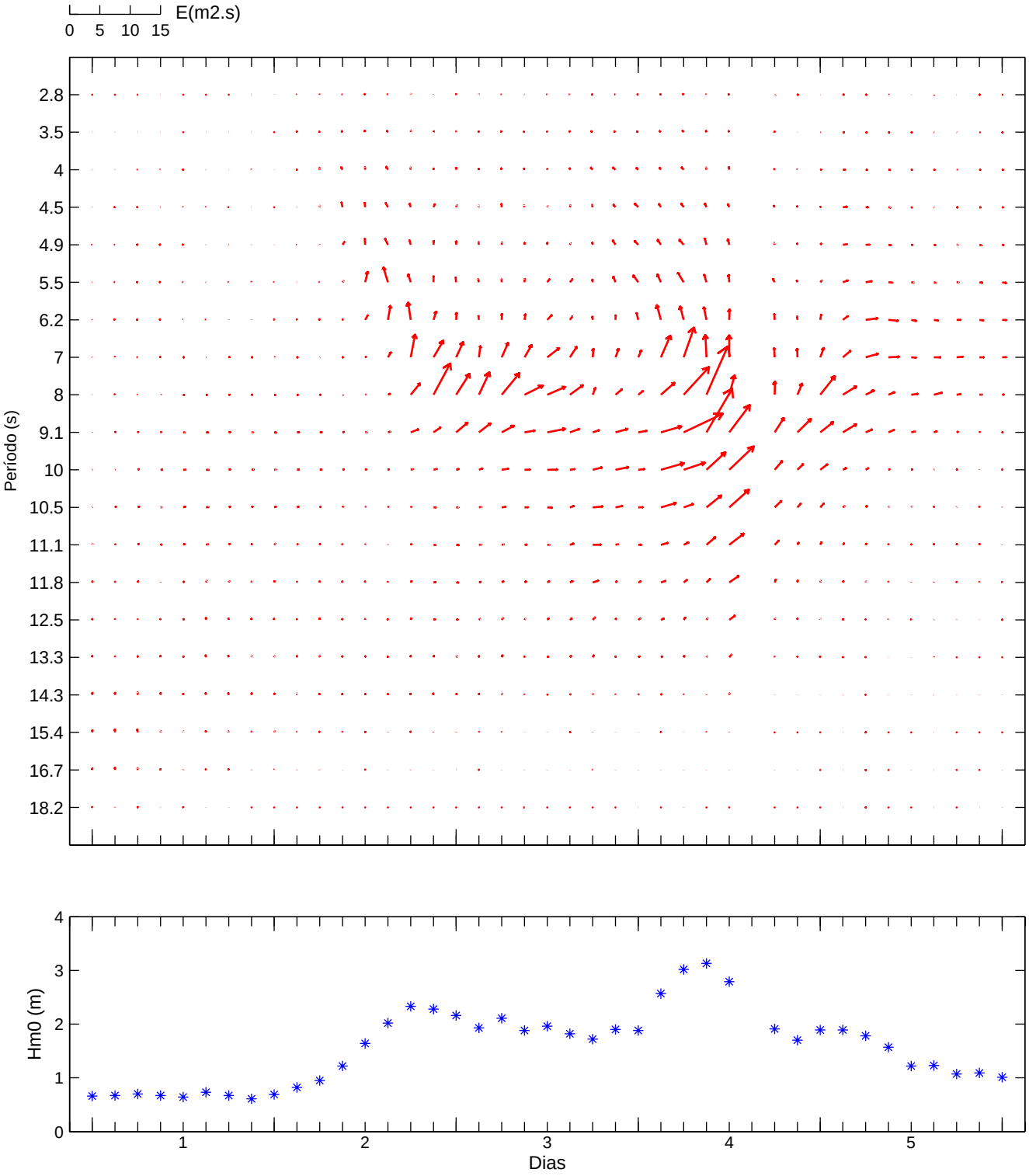
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − SMIGUEL 2006 MAI 26−31



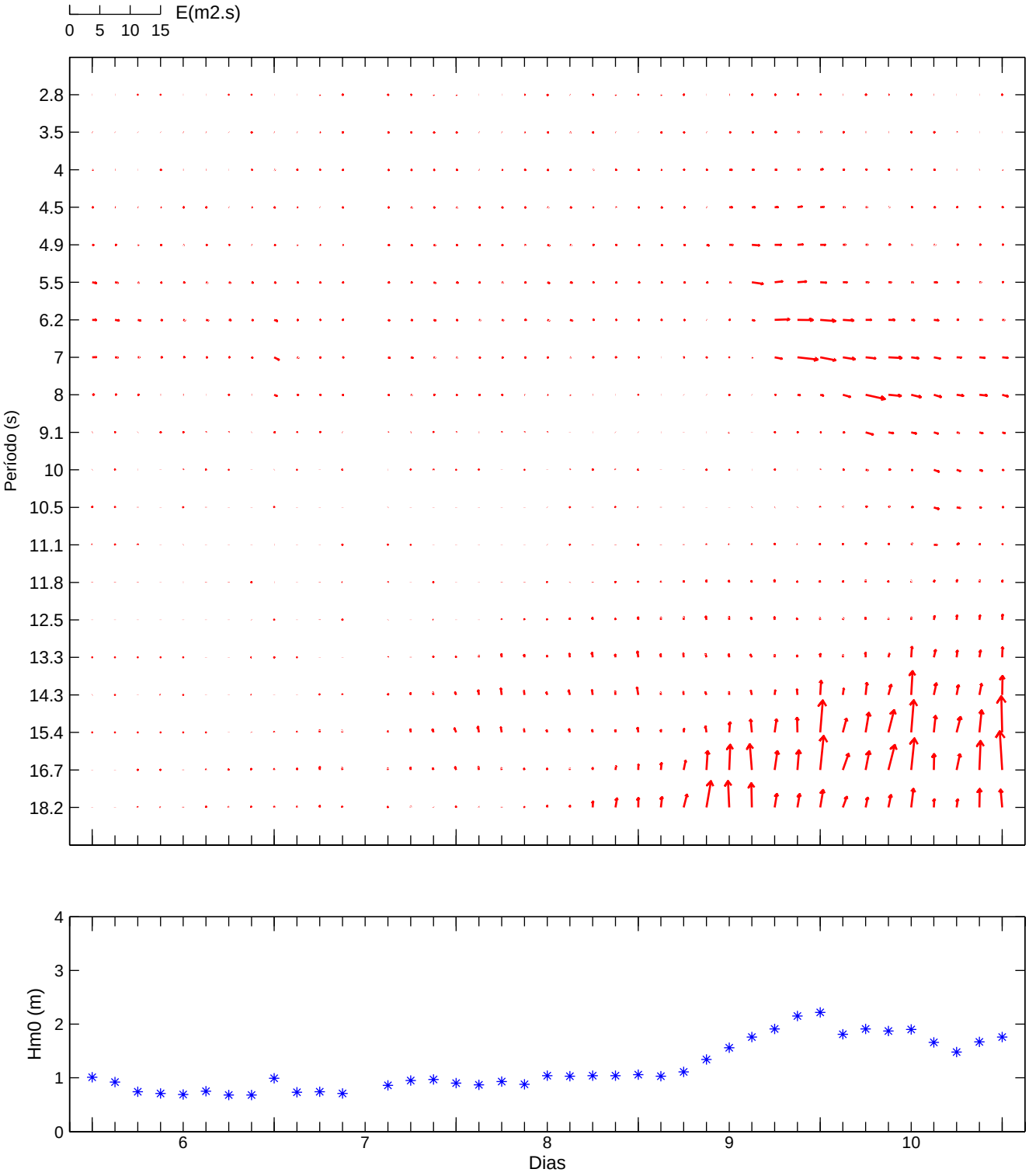
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − SMIGUEL 2006 JUN 1−5



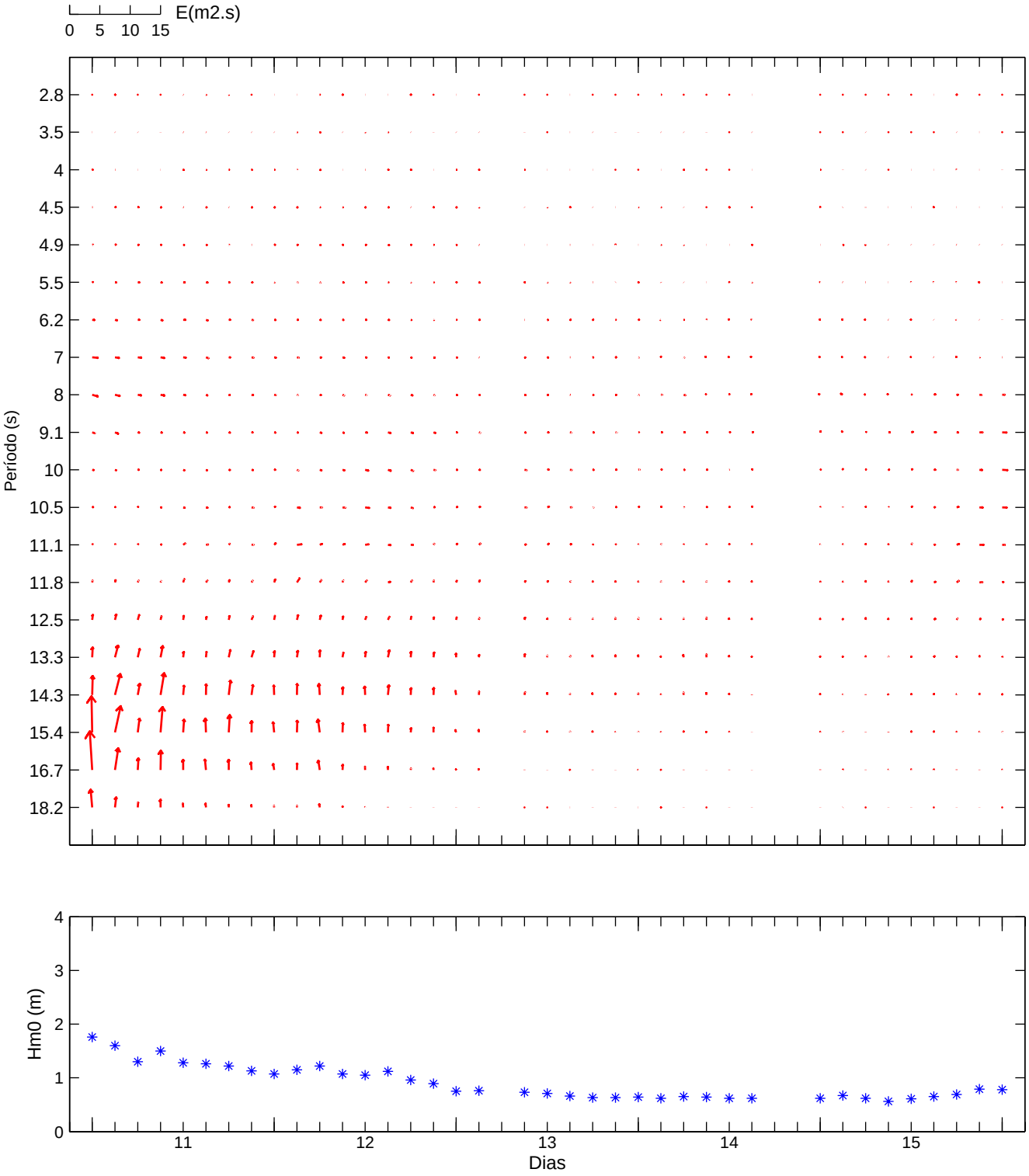
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − SMIGUEL 2006 JUN 6−10



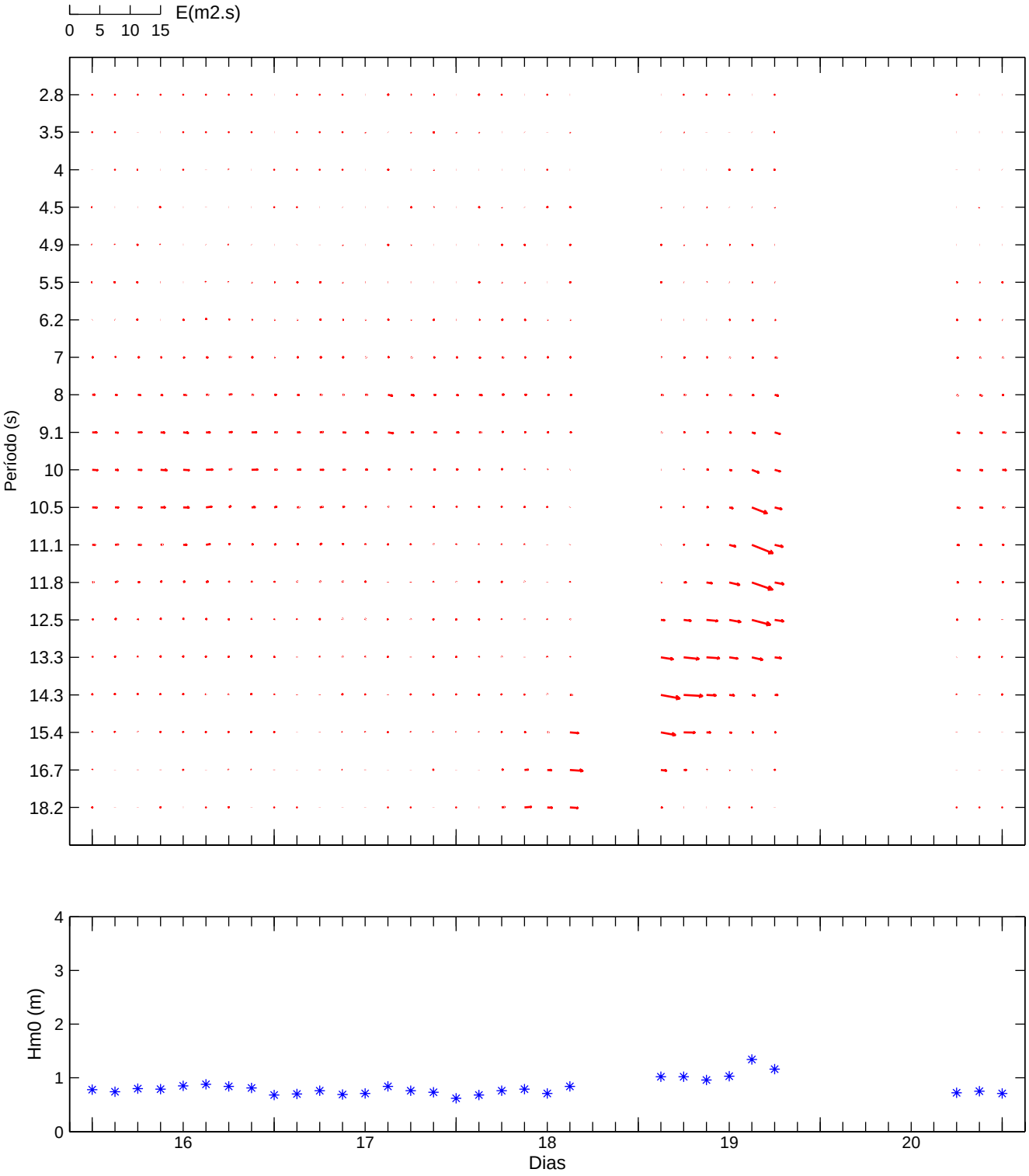
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − SMIGUEL 2006 JUN 11−15



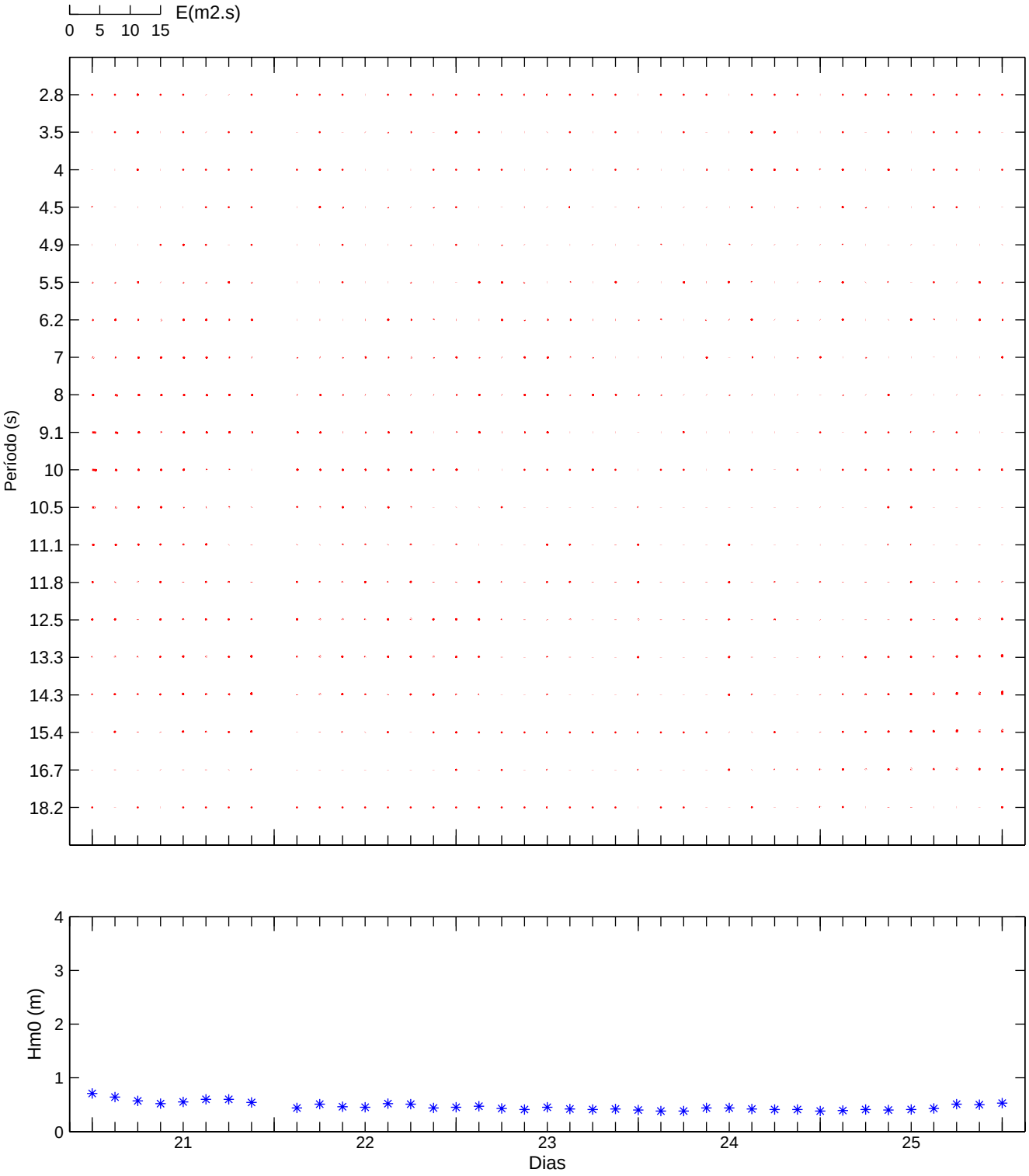
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − SMIGUEL 2006 JUN 16−20



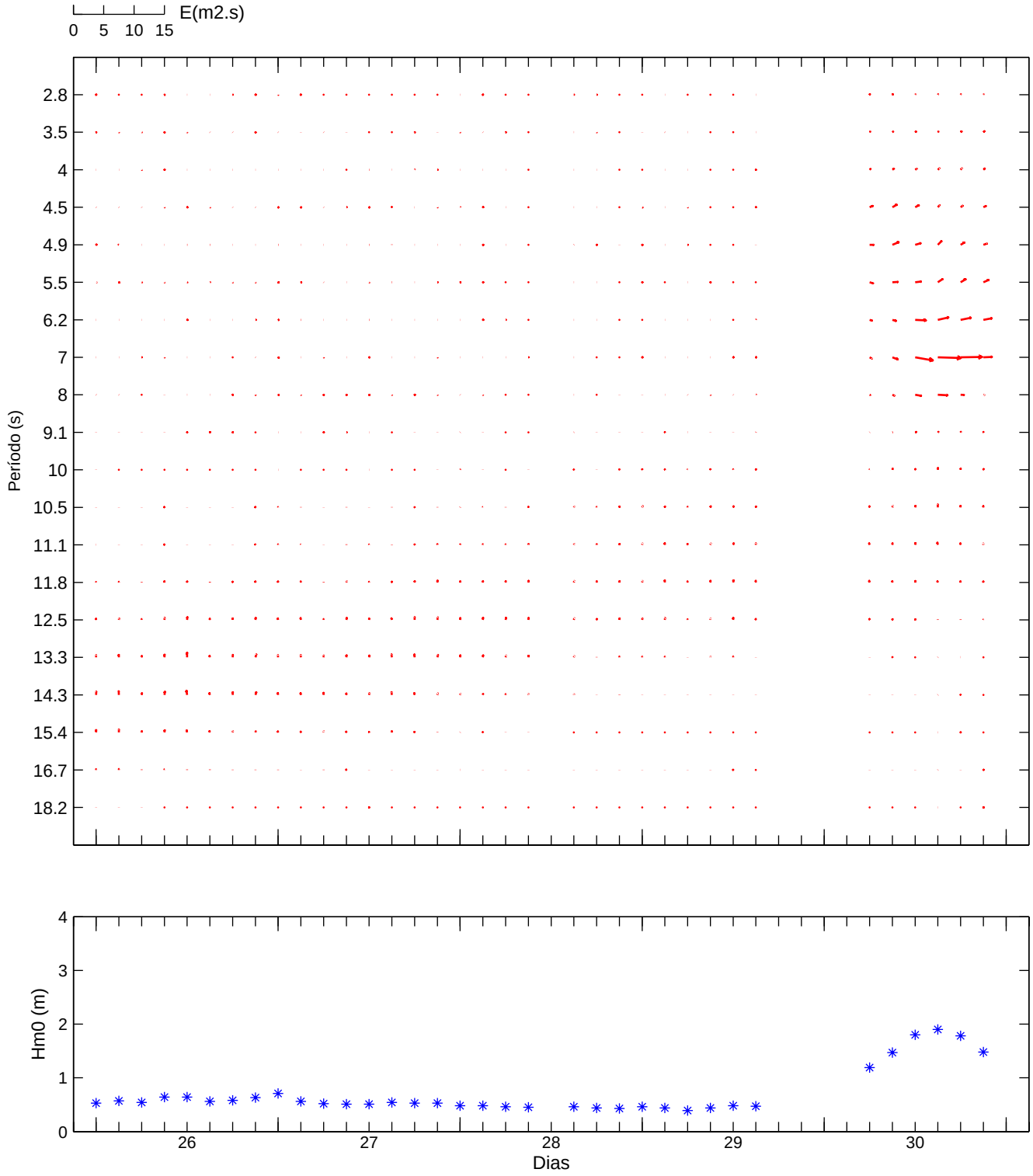
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − SMIGUEL 2006 JUN 21−25



EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − SMIGUEL 2006 JUN 26−30

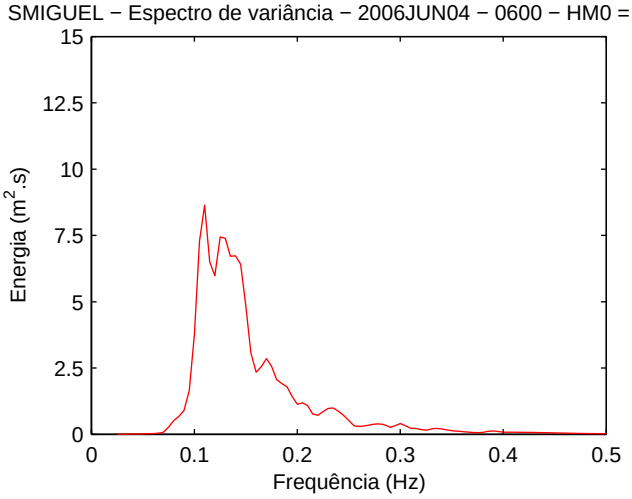


ANEXO H

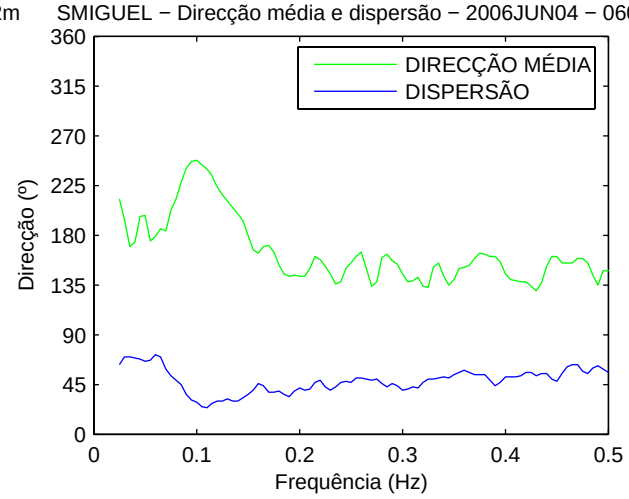
Gráficos de distribuição de energia, direcção média e dispersão,
para os registos em que HM0 ≥ 3.0metros

NOTA: Nos meses de Abril e Maio não se verificaram nenhumas ocorrências de HM0 ≥ 3.0 metros.

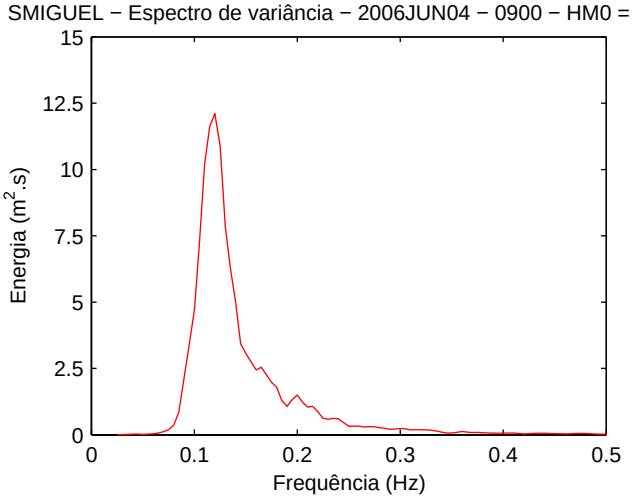
SMIGUEL − Espectro de variância − 2006JUN04 − 0600 − HM0 = 3.02m



SMIGUEL − Direcção média e dispersão − 2006JUN04 − 0600



SMIGUEL − Espectro de variância − 2006JUN04 − 0900 − HM0 = 3.13m



SMIGUEL − Direcção média e dispersão − 2006JUN04 − 0900