INSTITUTO HIDROGRÁFICO

DIVISÃO DE OCEANOGRAFIA

PJ OC 52EO06
RELATÓRIO TÉCNICO PRELIMINAR
REL. TP-OC-28/2006

TRATAMENTO DE DADOS DE AGITAÇÃO MARÍTIMA AÇORES/S. MIGUEL - JULHO A SETEMBRO 2006

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EXEMPLAR Nº 1

FOLHA DE DIFUSÃO

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TÍTULO DO RELATÓRIO

Tratamento de dados de agitação marítima
Açores/S. Miguel, Julho a Setembro de 2006

AUTOR(ES)
INSTITUTO HIDROGRÁFICO

TIPO DE RELATÓRIO	PERÍODO	DATA DO RELATÓRIO	Nº DE PÁGINAS
Técnico Preliminar	Jul a Set 2006	06 de Novembro de 2006	110

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 Julho a Setembro 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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DATA DE EDIÇÃO Novembro de 2006	

2006.12.11

DIVISÃO DE OCEANOGRAFIA

PJ OC 52EO06
RELATÓRIO TÉCNICO PRELIMINAR
REL. TP-OC-28/2006

TRATAMENTO DE DADOS DE AGITAÇÃO MARÍTIMA AÇORES/S. MIGUEL - JULHO A SETEMBRO 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 Julho a Setembro 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.

2. RESULTADOS

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

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

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

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

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

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

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

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

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

Adjunto da Divisão de Oceanografia
Responsável pela Secção de Agitação Marítima
Mariana Simões Costa
2006.Dez.11
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)
01	00-00	391	1.33	1.71	2.18	2.34	.84	5.4	5.6	5.5	5.5	4.6	3.8	10.2
01	03-00	350	1.33	1.66	2.09	2.48	.84	5.8	5.9	6.1	5.5	5.1	4.0	10.2
01	06-00	352	1.41	1.78	2.27	2.43	.86	5.9	6.0	6.1	6.2	5.1	4.1	10.2
01	09-00	356	1.21	1.53	2.01	2.38	.77	6.1	5.9	5.7	5.5	5.0	3.9	11.7
01	12-00	341	1.13	1.43	1.86	2.06	.73	6.4	6.8	6.5	6.2	5.3	4.1	13.3
01	15-00	286	1.20	1.45	1.67	1.82	.76	8.1	8.2	9.1	7.8	6.3	3.8	12.5
01	18-00	279	1.19	1.51	1.93	1.96	.77	7.8	7.9	8.9	8.6	6.4	4.5	12.5
01	21-00	264	1.15	1.40	1.78	1.87	.71	8.7	8.9	9.1	9.4	6.8	4.7	12.5
02	00-00	249	1.31	1.63	2.00	2.02	.83	8.5	8.4	8.2	8.6	7.2	4.9	13.3
02	03-00	272	1.27	1.59	1.92	1.98	.76	8.2	8.3	8.3	7.0	6.6	4.4	12.5
02	06-00	270	1.11	1.35	1.55	1.56	.71	8.0	8.3	9.1	7.8	6.6	4.5	12.5
02	09-00	342	.87	1.13	1.48	1.60	.56	7.3	7.9	7.8	7.8	5.2	3.5	12.5
02	12-00	300	.87	1.08	1.40	1.48	.55	8.0	8.3	8.9	7.8	6.0	3.6	11.7
02	15-00	284	.90	1.07	1.26	1.29	.58	8.2	8.3	8.3	8.6	6.3	3.5	13.3
02	18-00	309	.75	.95	1.21	1.22	.46	7.9	7.9	7.8	7.8	5.8	4.0	13.3
02	21-00	339	.77	.96	1.30	1.45	.48	7.0	7.5	7.6	7.8	5.3	3.6	11.7
03	00-00	332	.80	1.01	1.45	1.56	.51	7.5	8.2	8.1	9.4	5.4	3.6	12.5
03	03-00	317	.72	.90	1.16	1.33	.45	7.6	7.9	7.3	8.6	5.6	3.8	12.5
03	06-00	317	.64	.78	1.01	1.06	.41	7.3	7.8	7.0	8.6	5.7	4.1	16.4
03	09-00	340	.62	.78	1.00	1.06	.40	6.7	7.0	7.0	7.8	5.3	4.1	11.7
03	12-00	320	.57	.69	.83	.87	.37	7.1	7.4	8.3	10.2	5.6	3.9	12.5
03	15-00	287	.67	.84	1.06	1.08	.42	7.3	7.7	7.0	7.0	5.9	3.8	12.5
03	18-00	335	.66	.86	1.06	1.19	.41	6.7	6.7	6.5	6.2	5.3	3.8	13.3
03	21-00	321	.55	.67	.79	.84	.35	7.0	7.3	7.3	7.0	5.5	3.9	15.6
04	00-00	347	.44	.53	.68	.70	.28	7.1	7.4	8.1	7.8	5.2	3.7	14.8
04	03-00	294	.50	.64	.88	1.02	.31	7.6	8.1	8.3	7.8	6.1	4.5	14.1
04	06-00	307	.51	.65	.86	.91	.32	7.3	7.2	7.6	7.0	5.8	3.8	14.8
04	09-00	311	.50	.62	.78	.79	.31	7.1	7.0	7.3	7.0	5.8	4.0	13.3
04	12-00	333	.52	.64	.78	.86	.34	6.7	6.8	6.2	6.2	5.4	3.9	10.9
04	15-00	304	.52	.64	.88	.98	.34	7.0	7.1	6.5	6.2	5.9	3.9	15.6
04	18-00	361	.48	.59	.71	.75	.31	6.3	6.7	6.1	5.5	5.0	3.4	13.3
04	21-00	320	.39	.49	.57	.58	.25	7.0	8.2	7.0	6.2	5.6	3.8	14.1
05	00-00	303	.38	.46	.56	.66	.25	7.5	7.7	8.9	13.3	5.9	4.1	17.2
05	03-00	287	.37	.46	.59	.64	.24	8.4	9.3	12.5	15.6	6.2	4.3	17.2
05	06-00	290	.46	.56	.64	.65	.30	7.5	8.3	8.3	5.5	6.2	4.4	17.2
05	09-00	274	.45	.57	.79	.87	.29	8.3	9.0	6.0	7.0	6.5	4.7	17.2
05	15-00	311	.43	.57	.76	.77	.27	8.7	12.4	13.5	15.6	5.8	3.3	16.4
05	18-00	394	.39	.51	.74	.81	.25	6.9	9.8	12.7	10.9	4.5	2.7	16.4
05	21-00	305	.40	.53	.69	.70	.24	8.9	12.1	14.8	15.6	5.9	3.2	16.4
06	00-00	122	.44	.62	.78	.78	.27	11.1	12.9	13.3	13.3	7.6	4.0	17.2
06	03-00	217	.48	.60	.74	.74	.28	12.7	13.9	14.8	14.8	8.2	4.5	17.2
06	06-00	228	.45	.58	.76	.81	.28	11.5	13.3	13.7	12.5	7.8	4.5	18.0
06	09-00	220	.44	.56	.68	.68	.27	11.8	12.8	11.7	9.4	8.0	4.6	17.2
06	15-00	205	.55	.65	.76	.77	.33	13.4	14.0	14.1	14.1	8.7	3.8	17.2
06	18-00	217	.59	.76	.96	.99	.36	12.9	13.6	12.1	10.2	8.2	3.5	18.8

DIA	HORA	NA	HS (m)	H10 (m)	H100 (m)	HMAX (m)	HMED (m)	THS (s)	TH10 (s)	TH100 (s)	THMAX (s)	TZ (s)	TC (s)	TMAX (s)
06	21-00	278	.56	.72	.93	1.06	.34	10.7	12.5	13.0	11.7	6.4	3.0	16.4
07	03-00	220	.56	.74	1.04	1.06	.33	12.4	13.8	14.1	14.8	8.1	4.0	17.2
07	06-00	215	.55	.69	.78	.78	.34	11.4	12.1	9.0	9.4	8.3	4.4	18.0
07	09-00	166	.56	.72	.88	.91	.34	12.7	13.6	13.3	14.1	9.1	4.8	17.2
07	12-00	228	.52	.64	.78	.81	.32	11.8	13.1	13.7	14.1	7.9	3.8	16.4
07	15-00	292	.56	.73	1.03	1.10	.33	10.1	11.8	12.8	13.3	6.1	3.0	15.6
07	18-00	284	.57	.75	.94	.98	.35	9.5	10.4	10.4	10.9	6.3	3.3	16.4
07	21-00	288	.54	.69	.84	.87	.32	9.7	10.7	12.2	14.8	6.2	2.9	15.6
08	00-00	232	.53	.65	.86	.90	.34	9.6	9.7	9.8	9.4	7.7	4.8	16.4
08	03-00	245	.55	.67	.91	1.02	.35	9.4	9.4	9.0	9.4	7.3	4.5	14.8
08	06-00	243	.55	.68	.84	.85	.35	9.2	9.3	8.6	9.4	7.4	4.6	14.8
08	09-00	266	.54	.68	.86	.93	.33	8.3	8.7	8.9	8.6	6.7	4.1	14.1
08	12-00	285	.58	.73	.92	1.03	.36	8.8	9.2	8.9	9.4	6.3	3.2	15.6
08	15-00	348	.59	.75	.97	1.00	.38	7.3	8.2	9.1	8.6	5.1	3.1	13.3
08	18-00	354	.60	.76	.96	1.01	.38	7.4	8.9	10.0	10.2	5.1	3.2	12.5
08	21-00	344	.60	.73	.93	.97	.38	7.4	8.1	9.6	8.6	5.2	3.2	12.5
09	00-00	301	.52	.65	.80	.86	.33	8.1	8.6	7.0	7.0	5.9	3.9	14.8
09	03-00	165	.55	.68	.84	.90	.34	8.0	8.0	7.8	7.0	5.8	4.1	15.6
09	09-00	296	.56	.69	.81	.82	.36	7.3	7.5	7.3	7.0	6.0	4.3	13.3
09	12-00	257	.53	.66	.90	1.04	.34	7.3	7.2	7.3	7.0	6.2	4.2	15.6
09	15-00	175	.53	.66	.81	.81	.34	7.5	7.6	9.0	10.2	6.0	4.3	12.5
09	18-00	297	.52	.63	.81	.85	.34	7.9	8.4	7.6	7.0	6.0	3.9	14.1
09	21-00	298	.53	.66	.79	.83	.34	7.3	7.6	7.3	7.8	6.0	4.1	14.8
10	00-00	296	.49	.61	.71	.73	.32	7.3	7.4	7.8	6.2	6.0	4.7	14.1
10	03-00	290	.51	.64	.80	.84	.34	7.3	7.7	7.0	7.0	6.2	4.6	14.8
10	06-00	292	.52	.63	.83	.97	.33	7.9	8.0	7.3	6.2	6.1	4.2	13.3
10	09-00	272	.60	.77	.99	1.02	.38	7.7	7.4	7.3	6.2	6.5	5.1	13.3
10	12-00	277	.50	.61	.70	.71	.33	7.6	8.1	7.6	6.2	6.5	4.9	14.8
10	15-00	319	.54	.68	.92	.98	.34	7.3	7.5	6.5	6.2	5.6	3.7	13.3
10	18-00	280	.60	.73	.97	1.09	.38	8.1	8.0	7.6	7.0	6.4	4.2	13.3
10	21-00	239	.83	1.03	1.21	1.21	.54	8.5	8.7	8.2	8.6	7.5	5.5	12.5
11	00-00	245	.78	.98	1.19	1.26	.49	8.6	8.3	7.4	7.8	7.3	5.2	14.8
11	03-00	257	.75	.95	1.18	1.29	.48	8.3	8.5	7.6	7.8	7.0	5.2	14.1
11	06-00	252	.79	.96	1.13	1.15	.51	8.2	8.5	8.1	7.8	7.1	5.0	14.1
11	09-00	246	.79	.98	1.42	1.53	.51	8.5	8.3	7.4	7.0	7.3	5.7	12.5
11	12-00	133	.78	.96	1.15	1.15	.52	8.9	8.5	8.6	8.6	7.6	5.5	14.1
11	15-00	240	.81	1.02	1.54	1.67	.52	8.8	8.8	8.6	8.6	7.5	5.2	14.8
11	18-00	240	.87	1.05	1.33	1.38	.57	8.9	8.7	9.4	9.4	7.5	4.9	12.5
11	21-00	240	.85	1.10	1.41	1.42	.55	8.9	8.8	8.6	8.6	7.4	5.4	13.3
12	00-00	245	.80	.97	1.14	1.15	.52	8.6	8.5	8.2	8.6	7.3	5.3	14.1
12	03-00	258	.74	.94	1.19	1.20	.47	8.3	8.5	8.1	7.8	7.0	5.0	14.1
12	06-00	266	.64	.81	1.15	1.26	.41	8.7	8.8	8.1	7.8	6.7	4.6	12.5
12	09-00	240	.76	.97	1.37	1.43	.48	8.8	8.8	9.0	8.6	7.5	4.9	12.5
12	12-00	260	.73	.93	1.22	1.25	.46	8.3	8.4	8.6	8.6	6.9	5.2	12.5
12	15-00	271	.69	.86	1.05	1.16	.44	7.9	8.0	8.6	8.6	6.6	4.2	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)
12	18-00	277	.64	.81	1.05	1.11	.41	8.1	8.0	8.3	9.4	6.5	4.5	13.3
12	21-00	273	.70	.91	1.18	1.32	.45	7.7	7.7	7.3	7.8	6.6	4.7	13.3
13	00-00	284	.67	.82	.96	.97	.44	7.4	7.5	7.6	7.0	6.3	4.6	11.7
13	03-00	292	.66	.82	1.08	1.18	.43	7.0	6.9	6.8	7.8	6.1	4.8	11.7
13	06-00	302	.67	.84	1.13	1.22	.44	7.0	6.7	6.8	7.8	5.9	4.5	10.9
13	12-00	306	.63	.79	.95	1.01	.41	7.0	7.1	7.6	7.0	5.9	4.0	11.7
13	15-00	313	.69	.85	1.06	1.06	.44	7.0	7.2	6.5	5.5	5.7	4.0	11.7
13	18-00	345	.61	.75	.91	1.04	.39	6.7	7.1	6.0	7.0	5.2	3.8	12.5
13	21-00	371	.64	.80	.98	1.03	.42	6.1	6.1	7.0	7.8	4.8	3.5	10.2
14	00-00	334	.59	.73	.96	1.04	.39	6.8	6.7	6.8	7.8	5.4	3.9	11.7
14	03-00	313	.55	.71	.97	1.03	.36	7.4	7.4	7.8	7.0	5.7	4.1	12.5
14	06-00	265	.55	.69	.83	.86	.35	7.6	8.1	7.6	7.8	6.0	4.2	14.1
14	09-00	283	.52	.64	.81	.91	.35	8.3	8.4	7.3	8.6	6.3	4.3	15.6
14	12-00	277	.58	.74	1.16	1.24	.37	8.3	8.2	9.1	9.4	6.5	4.3	14.8
14	15-00	258	.54	.67	.80	.83	.35	9.4	10.8	9.1	7.0	6.9	3.9	16.4
14	18-00	266	.58	.73	.95	1.01	.36	10.1	11.2	12.8	14.1	6.8	3.8	18.8
14	21-00	292	.63	.80	1.05	1.11	.40	8.8	10.3	10.2	9.4	6.1	3.8	15.6
15	00-00	278	.57	.70	.83	.86	.36	9.0	9.5	9.1	7.8	6.5	4.2	15.6
15	03-00	293	.62	.77	1.01	1.08	.39	8.3	9.3	11.5	8.6	6.1	4.0	16.4
15	06-00	238	.66	.82	1.00	1.03	.42	10.4	10.8	9.4	7.8	7.1	4.3	16.4
15	09-00	238	.68	.86	1.06	1.06	.43	10.5	11.4	14.1	14.8	7.5	3.9	17.2
15	12-00	276	.61	.76	1.01	1.17	.39	9.1	10.5	10.2	11.7	6.5	4.0	14.8
15	15-00	268	.62	.78	.92	.93	.38	9.7	10.9	11.7	10.2	6.7	3.9	16.4
15	18-00	246	.66	.83	.94	.98	.40	11.5	13.1	13.7	13.3	7.3	3.4	16.4
15	21-00	234	.60	.74	.95	.98	.38	11.1	12.2	12.1	10.9	7.6	3.8	16.4
16	00-00	285	.63	.81	1.07	1.14	.40	8.9	9.4	10.7	8.6	6.3	4.2	14.8
16	03-00	254	.68	.82	.99	1.06	.44	10.1	10.8	9.6	6.2	7.1	4.2	15.6
16	06-00	261	.59	.77	.94	1.04	.37	9.9	11.5	13.8	12.5	6.9	3.9	15.6
16	09-00	283	.62	.78	1.02	1.09	.37	9.8	11.2	10.9	10.9	6.3	3.5	14.8
16	12-00	282	.55	.71	.85	.85	.34	9.3	10.5	7.8	7.0	6.4	3.7	15.6
16	15-00	352	.61	.76	.95	1.08	.39	7.2	7.5	8.4	7.0	5.1	3.1	16.4
16	21-00	283	.60	.76	.99	1.04	.38	9.0	10.0	7.8	8.6	6.3	3.8	14.8
17	00-00	260	.63	.81	1.07	1.13	.41	9.1	9.8	10.4	10.9	6.9	4.5	14.8
17	03-00	315	.60	.78	1.00	1.01	.38	7.3	8.0	8.3	7.8	5.7	3.8	14.8
17	06-00	286	.60	.73	.88	.92	.39	8.4	8.7	8.6	7.0	6.2	4.1	14.8
17	09-00	299	.53	.67	.86	.92	.34	8.3	9.4	9.9	10.2	6.0	3.8	13.3
17	12-00	267	.60	.73	.86	.94	.35	10.2	10.7	11.7	10.2	6.7	3.6	16.4
17	15-00	282	.69	.87	1.17	1.23	.41	9.1	9.3	9.4	9.4	6.4	3.8	14.8
17	18-00	254	.73	.92	1.18	1.34	.45	9.7	9.9	9.9	10.2	7.0	3.9	14.8
17	21-00	218	1.02	1.30	1.71	1.74	.64	10.4	10.7	10.2	10.2	8.2	4.5	15.6
18	00-00	216	1.11	1.40	1.79	1.79	.69	10.1	10.0	9.4	9.4	8.3	4.8	14.1
18	03-00	204	1.19	1.45	1.79	1.85	.75	10.2	10.0	10.2	10.2	8.7	5.8	14.1
18	06-00	210	1.05	1.28	1.45	1.45	.64	9.5	9.3	9.8	9.4	7.7	5.3	15.6
18	09-00	251	.91	1.12	1.29	1.32	.54	10.0	9.6	9.1	10.2	7.1	3.8	14.1
18	12-00	221	.91	1.15	1.38	1.38	.56	9.5	9.3	10.2	10.2	7.2	3.9	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)
18	15-00	278	.90	1.16	1.53	1.60	.55	9.3	9.9	10.9	10.2	6.4	3.6	14.1
18	18-00	252	.88	1.07	1.23	1.33	.53	9.3	9.5	10.4	9.4	7.1	3.9	13.3
18	21-00	260	.93	1.17	1.40	1.42	.56	9.4	9.6	9.4	10.2	6.9	4.0	14.1
19	00-00	262	.88	1.09	1.44	1.60	.54	9.2	9.6	9.1	7.8	6.8	4.3	12.5
19	03-00	249	.89	1.11	1.32	1.33	.57	8.9	9.0	9.0	8.6	7.2	4.3	13.3
19	06-00	240	.86	1.07	1.33	1.35	.53	8.9	9.2	8.6	8.6	7.5	5.0	14.8
19	09-00	267	.85	1.09	1.35	1.37	.52	9.0	9.2	9.1	8.6	6.7	4.2	13.3
19	12-00	246	.86	1.06	1.34	1.34	.54	9.1	9.0	9.8	9.4	7.3	4.3	13.3
19	15-00	243	.80	.98	1.29	1.42	.50	9.0	9.1	8.2	7.0	7.4	4.1	13.3
19	18-00	238	.74	.95	1.16	1.17	.46	9.1	9.0	8.6	8.6	7.5	4.4	14.8
19	21-00	252	.67	.82	1.08	1.18	.43	8.7	8.8	9.1	10.2	7.1	4.8	13.3
20	00-00	253	.66	.83	.98	1.10	.43	8.9	9.4	9.4	9.4	7.1	4.3	12.5
20	03-00	268	.64	.78	.95	1.04	.40	8.9	9.1	8.1	7.8	6.7	4.2	14.1
20	06-00	249	.59	.78	1.07	1.15	.37	8.9	8.9	9.0	10.2	7.2	4.5	14.1
20	12-00	252	.57	.68	.79	.85	.37	8.9	8.5	8.1	7.8	7.1	4.0	14.1
20	15-00	270	.63	.76	.92	.98	.40	8.8	8.9	9.1	9.4	6.6	3.5	14.8
20	18-00	305	.58	.72	.89	.93	.35	8.4	9.1	9.1	10.9	5.9	3.2	14.1
20	21-00	424	.56	.71	.90	.95	.37	5.9	6.7	6.6	6.2	4.2	2.9	12.5
21	00-00	435	.65	.80	1.01	1.08	.43	5.5	5.8	5.1	3.9	4.1	3.1	12.5
21	03-00	448	.75	.93	1.11	1.13	.50	4.8	5.3	4.9	3.9	4.0	3.1	11.7
21	06-00	420	.79	.97	1.22	1.31	.50	5.3	5.4	5.5	7.0	4.3	3.3	11.7
21	09-00	388	.92	1.15	1.39	1.44	.58	5.6	5.4	6.8	6.2	4.6	3.6	11.7
21	12-00	367	1.07	1.36	1.68	1.85	.69	5.9	5.6	5.1	4.7	4.9	3.7	12.5
21	15-00	366	1.13	1.37	1.73	1.92	.73	5.8	6.4	6.1	6.2	4.9	3.9	10.9
21	18-00	345	1.10	1.32	1.77	1.92	.70	6.6	6.6	7.3	7.0	5.2	3.8	10.9
21	21-00	319	1.05	1.35	1.86	2.08	.69	6.8	6.6	6.2	7.0	5.6	4.0	10.2
22	00-00	335	.91	1.12	1.42	1.46	.60	6.5	6.3	6.2	8.6	5.3	3.8	10.9
22	03-00	334	1.04	1.27	1.56	1.64	.66	6.6	6.8	7.3	7.0	5.4	3.9	10.2
22	06-00	333	.96	1.18	1.60	1.64	.61	7.0	7.3	7.3	7.0	5.4	3.7	13.3
22	09-00	340	.84	1.04	1.31	1.38	.54	7.1	7.5	7.3	6.2	5.3	3.5	12.5
22	12-00	400	.85	1.07	1.48	1.59	.54	5.8	6.1	5.9	4.7	4.5	3.3	10.9
22	15-00	405	.82	1.01	1.26	1.52	.54	5.6	6.1	5.5	6.2	4.4	3.4	10.9
22	18-00	424	.90	1.14	1.45	1.49	.59	5.1	5.2	6.6	4.7	4.2	3.4	10.2
22	21-00	399	.94	1.15	1.38	1.43	.60	5.3	5.2	6.1	6.2	4.5	3.6	10.2
23	00-00	398	.92	1.16	1.60	1.69	.59	5.3	5.7	5.5	7.0	4.5	3.5	10.9
23	03-00	397	1.02	1.30	1.66	1.72	.66	5.4	5.3	5.1	4.7	4.5	3.6	10.2
23	06-00	387	1.04	1.25	1.68	1.79	.68	5.4	5.2	5.9	5.5	4.6	3.7	9.4
23	09-00	360	1.01	1.28	1.57	1.64	.64	6.2	6.1	5.5	6.2	5.0	3.9	10.9
23	12-00	326	1.01	1.24	1.67	1.78	.66	6.5	6.6	7.0	7.8	5.5	4.3	10.9
23	15-00	336	.95	1.19	1.52	1.59	.62	6.4	6.8	7.0	9.4	5.3	4.0	10.9
23	18-00	319	1.07	1.35	1.63	1.66	.69	7.0	7.0	6.8	4.7	5.6	4.1	12.5
23	21-00	286	1.27	1.51	1.85	2.02	.83	7.5	7.4	6.2	6.2	6.2	4.3	10.9
24	00-00	297	1.05	1.31	1.59	1.71	.69	7.4	7.4	7.3	7.8	6.0	4.4	14.1
24	03-00	314	.91	1.16	1.48	1.55	.59	7.0	7.2	7.0	5.5	5.7	4.1	12.5
24	06-00	320	.94	1.15	1.37	1.40	.59	7.5	8.0	8.1	7.8	5.6	3.8	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)
24	09-00	303	1.00	1.26	1.61	1.73	.62	8.0	8.0	8.3	7.8	5.9	4.5	11.7
24	15-00	339	.89	1.07	1.41	1.46	.58	6.9	7.1	6.8	6.2	5.3	3.9	10.9
24	18-00	340	.94	1.16	1.56	1.75	.61	6.8	7.4	6.8	7.0	5.3	3.8	10.9
24	21-00	356	.92	1.16	1.43	1.47	.58	6.7	7.0	7.0	7.0	5.0	3.8	11.7
25	00-00	329	.77	.94	1.10	1.18	.49	6.8	7.1	8.3	7.0	5.4	4.0	11.7
25	03-00	327	.75	.91	1.12	1.24	.49	6.9	7.1	6.8	5.5	5.5	3.8	12.5
25	06-00	422	.59	.72	.86	.90	.38	5.7	6.2	6.2	4.7	4.3	3.1	11.7
25	09-00	375	.67	.84	1.13	1.35	.43	5.9	5.8	5.1	5.5	4.8	3.3	12.5
25	15-00	341	.94	1.16	1.48	1.56	.61	6.3	6.2	5.5	5.5	5.3	4.1	10.2
25	18-00	338	.90	1.10	1.41	1.46	.58	6.7	7.2	7.0	7.8	5.3	3.9	13.3
25	21-00	319	.73	.91	1.12	1.14	.46	7.3	7.6	7.6	7.8	5.6	3.7	11.7
26	00-00	337	.74	.88	1.07	1.14	.49	6.6	6.9	8.1	7.8	5.3	3.7	13.3
26	03-00	333	.74	.90	1.04	1.06	.47	6.8	6.8	6.8	6.2	5.4	3.7	12.5
26	06-00	316	.73	.92	1.30	1.41	.47	7.0	6.8	6.2	6.2	5.7	3.9	14.1
26	09-00	292	.68	.82	1.06	1.12	.45	7.6	8.0	7.3	7.0	6.1	3.9	13.3
26	12-00	366	.67	.83	1.03	1.07	.43	6.9	7.4	7.6	7.8	4.9	3.1	11.7
26	15-00	368	.66	.82	.99	1.09	.43	6.4	7.2	5.5	3.9	4.8	3.4	14.8
26	18-00	389	.61	.77	1.05	1.12	.40	6.1	7.1	8.6	4.7	4.6	3.4	12.5
26	21-00	395	.67	.85	1.09	1.13	.43	6.0	6.6	7.6	10.2	4.5	3.3	11.7
27	00-00	318	.64	.79	.97	1.01	.41	7.5	7.5	7.6	7.0	5.6	3.9	12.5
27	03-00	300	.65	.78	.94	.97	.42	7.5	7.9	7.0	7.8	6.0	4.0	13.3
27	06-00	288	.68	.85	1.04	1.08	.45	7.7	7.8	7.3	7.8	6.2	4.4	14.1
27	09-00	290	.62	.75	.99	1.10	.39	7.7	8.4	8.3	7.0	6.2	4.3	15.6
27	12-00	301	.57	.71	.86	.87	.37	7.8	7.7	7.8	7.8	5.9	4.3	13.3
27	15-00	172	.59	.70	.85	.85	.39	7.4	7.0	7.4	7.8	6.3	4.4	13.3
27	18-00	296	.55	.69	.85	.91	.36	7.5	7.6	8.1	8.6	6.0	4.2	14.1
27	21-00	296	.48	.59	.74	.80	.32	7.5	7.8	7.0	7.0	6.0	4.3	12.5
28	00-00	292	.51	.65	.77	.87	.33	7.5	7.9	8.6	8.6	6.1	4.4	13.3
28	03-00	280	.56	.71	.89	.94	.36	7.7	7.7	7.3	8.6	6.4	4.7	13.3
28	06-00	317	.50	.62	.81	.91	.31	7.5	7.9	7.6	7.8	5.7	3.5	13.3
28	09-00	373	.50	.61	.77	.80	.32	6.8	7.6	8.6	7.8	4.8	3.1	13.3
28	12-00	381	.50	.63	.88	.94	.32	6.8	7.5	9.2	10.2	4.7	3.0	12.5
28	15-00	412	.60	.75	.96	.99	.38	6.0	7.1	9.0	9.4	4.4	3.0	12.5
28	18-00	408	.71	.88	1.15	1.32	.45	5.8	6.3	7.4	7.8	4.4	3.2	11.7
28	21-00	361	.84	1.07	1.29	1.37	.53	6.8	7.4	8.6	8.6	5.0	3.4	11.7
29	00-00	394	.74	.95	1.24	1.33	.46	5.9	6.7	6.6	5.5	4.6	3.2	10.9
29	03-00	380	.81	.97	1.18	1.30	.54	5.8	6.4	5.9	5.5	4.7	3.6	10.9
29	06-00	411	.90	1.14	1.51	1.69	.57	5.6	5.8	5.9	4.7	4.4	3.5	10.9
29	09-00	369	.93	1.16	1.43	1.47	.61	6.3	6.5	5.3	5.5	4.9	3.4	11.7
29	12-00	381	.94	1.15	1.34	1.42	.59	6.2	6.5	6.2	6.2	4.7	3.5	10.9
29	15-00	334	.96	1.22	1.69	1.75	.61	6.8	7.1	5.7	4.7	5.4	3.6	11.7
29	18-00	347	.91	1.14	1.45	1.48	.58	6.4	6.5	6.8	7.8	5.2	3.9	10.9
30	00-00	293	.77	.94	1.11	1.13	.49	7.7	7.7	7.8	7.8	6.1	4.5	12.5
30	03-00	289	.82	1.06	1.46	1.78	.53	7.4	7.7	7.6	7.8	6.2	4.6	12.5
30	06-00	314	.83	1.00	1.22	1.23	.54	7.1	7.3	6.0	7.0	5.7	4.4	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)
30	15-00	284	.70	.88	1.11	1.20	.45	7.7	8.2	8.6	7.8	6.3	4.2	13.3
30	18-00	167	.70	.89	1.21	1.24	.47	7.4	7.7	9.0	8.6	6.1	3.9	13.3
30	21-00	367	.66	.84	1.07	1.15	.42	6.9	7.6	7.4	7.8	4.9	3.4	12.5
31	00-00	329	.71	.87	1.14	1.19	.45	7.4	7.8	8.3	8.6	5.4	3.6	12.5
31	03-00	323	.69	.86	1.13	1.31	.44	7.4	7.9	6.8	6.2	5.6	4.0	14.8
31	06-00	315	.66	.80	1.08	1.09	.43	7.5	8.3	8.9	10.2	5.7	3.7	14.8
31	09-00	338	.67	.84	1.03	1.08	.42	7.3	7.6	10.7	10.9	5.3	3.4	14.1
31	12-00	321	.63	.80	1.10	1.17	.39	7.4	8.0	7.8	7.0	5.6	3.7	14.1
31	15-00	177	.63	.78	.92	.93	.40	7.4	7.5	7.0	6.2	6.1	4.3	14.8
31	18-00	298	.67	.83	1.06	1.08	.44	7.5	7.7	7.8	7.0	6.0	4.2	14.8
31	21-00	312	.73	.89	1.10	1.13	.46	7.7	7.7	7.0	7.0	5.8	3.9	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	293	.71	.85	1.04	1.13	.46	8.0	8.6	8.3	7.0	6.1	4.1	16.4
01	03-00	247	.83	1.04	1.38	1.51	.54	8.6	8.7	9.0	8.6	7.3	5.3	14.8
01	06-00	242	.94	1.14	1.35	1.36	.61	8.8	8.8	11.3	8.6	7.4	4.7	16.4
01	09-00	240	.90	1.15	1.51	1.58	.57	8.8	8.6	8.6	9.4	7.1	4.8	17.2
01	12-00	255	.85	1.07	1.42	1.65	.54	8.8	8.4	8.6	9.4	7.0	4.9	12.5
01	15-00	242	.82	1.02	1.45	1.65	.51	8.7	8.2	8.2	7.8	7.4	5.2	14.8
01	18-00	256	.83	1.01	1.29	1.42	.54	8.3	8.4	7.0	6.2	7.0	4.8	16.4
01	21-00	260	.75	.94	1.22	1.29	.48	8.8	8.9	8.3	8.6	6.9	4.6	15.6
02	00-00	253	.65	.84	1.16	1.22	.41	8.9	8.6	9.1	10.2	7.1	4.6	14.8
02	03-00	134	.68	.87	1.16	1.16	.45	9.3	9.4	8.6	8.6	8.1	5.6	15.6
02	06-00	237	.73	.89	1.13	1.19	.47	8.9	8.8	8.6	8.6	7.6	5.3	14.1
02	12-00	223	.85	1.04	1.32	1.35	.54	9.5	9.4	9.4	9.4	8.0	4.5	15.6
02	15-00	239	.90	1.14	1.55	1.60	.57	9.2	9.0	10.2	10.2	7.5	4.1	16.4
02	18-00	270	.96	1.21	1.54	1.62	.57	8.6	8.7	9.1	9.4	6.6	4.0	14.1
02	21-00	283	.75	.95	1.30	1.48	.47	8.4	8.8	9.1	9.4	6.3	3.9	16.4
03	00-00	292	.77	.96	1.22	1.28	.48	8.4	8.7	9.1	7.8	6.1	3.5	13.3
03	03-00	284	.78	1.04	1.32	1.33	.46	8.9	9.2	8.9	8.6	6.3	3.9	12.5
03	06-00	273	.94	1.28	1.66	1.80	.55	8.4	8.8	8.6	8.6	6.5	4.2	13.3
03	12-00	251	.86	1.06	1.31	1.49	.56	9.1	9.3	8.6	8.6	7.1	4.4	14.1
03	15-00	275	.87	1.10	1.24	1.26	.52	8.8	8.8	8.3	8.6	6.5	3.9	13.3
03	18-00	262	.86	1.07	1.33	1.44	.54	8.9	8.8	8.9	9.4	6.8	4.0	14.1
03	21-00	261	.88	1.08	1.32	1.45	.55	8.7	8.8	7.8	7.0	6.9	4.3	12.5
04	00-00	279	.86	1.04	1.22	1.23	.55	8.3	8.8	8.6	7.0	6.4	3.9	14.1
04	03-00	268	.96	1.20	1.49	1.63	.60	8.8	9.3	9.6	10.2	6.7	4.2	14.8
04	06-00	263	.98	1.20	1.40	1.46	.63	8.3	8.4	8.9	7.8	6.8	4.3	13.3
04	09-00	253	.85	1.02	1.21	1.25	.57	8.5	9.0	9.1	9.4	7.1	4.8	11.7
04	12-00	263	.80	.96	1.11	1.13	.51	8.4	8.4	9.1	8.6	6.8	4.8	12.5
04	15-00	251	.95	1.15	1.37	1.43	.61	8.8	8.9	9.4	9.4	7.1	4.4	16.4
04	18-00	238	.99	1.21	1.61	1.71	.65	8.3	8.1	7.8	8.6	7.2	4.7	12.5
04	21-00	265	.89	1.13	1.42	1.42	.58	8.4	8.2	8.3	7.0	6.8	4.8	15.6
05	00-00	282	.93	1.17	1.39	1.44	.59	8.0	8.1	8.3	7.8	6.3	4.2	12.5
05	03-00	266	.91	1.09	1.37	1.41	.59	8.0	7.7	7.8	7.8	6.7	4.7	14.1
05	06-00	281	.86	1.08	1.51	1.56	.55	7.9	8.1	7.6	7.0	6.4	4.7	11.7
05	09-00	281	.86	1.07	1.45	1.67	.55	7.6	7.3	6.8	7.0	6.4	4.6	11.7
05	12-00	287	.79	.99	1.24	1.28	.49	7.6	7.3	6.5	7.8	6.3	4.4	11.7
05	15-00	272	.75	.93	1.22	1.29	.49	7.7	8.0	7.0	6.2	6.6	4.7	12.5
05	18-00	345	.73	.91	1.14	1.23	.46	6.8	7.2	7.3	6.2	5.2	3.7	13.3
05	21-00	317	.71	.86	1.07	1.13	.46	6.9	7.0	7.0	7.8	5.6	4.0	13.3
06	00-00	338	.70	.85	.99	1.02	.44	6.9	6.8	7.0	6.2	5.3	3.9	14.1
06	03-00	298	.69	.87	1.12	1.23	.44	7.6	8.1	7.6	7.0	6.0	4.1	12.5
06	06-00	290	.67	.82	1.01	1.05	.42	7.4	7.3	7.6	7.0	6.2	4.3	14.1
06	09-00	331	.69	.86	1.07	1.10	.44	6.7	7.2	7.6	8.6	5.4	4.0	12.5
06	12-00	300	.66	.79	.97	1.01	.44	7.6	7.9	7.8	9.4	6.0	3.7	13.3
06	15-00	307	.67	.84	1.04	1.06	.44	7.9	8.4	8.3	8.6	5.8	3.6	12.5
06	18-00	296	.78	1.00	1.28	1.36	.48	8.1	8.0	7.0	7.0	6.1	3.7	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)
06	21-00	333	.73	.91	1.22	1.42	.46	7.2	7.4	6.0	6.2	5.4	3.6	12.5
07	00-00	321	.71	.89	1.16	1.18	.45	7.2	7.1	6.5	5.5	5.6	3.5	13.3
07	03-00	326	.66	.84	1.12	1.16	.42	7.4	8.0	7.3	7.8	5.5	3.6	14.8
07	06-00	307	.65	.81	1.02	1.12	.40	7.9	8.1	8.9	7.8	5.8	3.9	13.3
07	09-00	317	.81	.99	1.20	1.24	.51	7.8	8.2	8.3	7.8	5.6	3.9	14.8
07	12-00	293	.73	.88	1.11	1.20	.46	7.8	8.1	8.3	7.8	6.1	3.8	12.5
07	21-00	403	.81	.98	1.21	1.42	.54	5.4	5.6	6.6	7.8	4.5	3.4	12.5
08	00-00	330	.66	.82	1.06	1.31	.43	7.4	8.6	10.7	13.3	5.4	3.5	15.6
08	03-00	359	.67	.82	.98	.98	.43	6.8	7.7	7.0	7.0	5.0	3.5	14.8
08	06-00	291	.66	.84	1.06	1.10	.43	8.2	9.8	9.4	10.9	6.2	3.9	14.1
08	09-00	305	.63	.77	1.02	1.19	.41	7.9	8.3	9.1	7.8	5.9	3.7	16.4
08	12-00	328	.86	1.05	1.28	1.33	.55	7.5	8.6	9.1	10.2	5.2	3.5	14.8
08	15-00	383	.77	.96	1.11	1.16	.51	6.2	8.2	8.2	10.2	4.7	3.2	14.8
08	18-00	352	.72	.90	1.08	1.11	.46	7.1	9.2	12.3	10.2	5.1	3.2	14.1
08	21-00	356	.58	.74	.90	.92	.37	6.7	8.2	7.2	6.2	5.0	3.5	14.1
09	00-00	269	.65	.82	1.03	1.07	.41	8.9	9.5	11.7	10.9	6.7	4.2	17.2
09	03-00	253	.59	.71	.81	.89	.38	10.1	11.9	10.4	9.4	7.1	4.2	15.6
09	06-00	280	.58	.75	1.09	1.31	.37	9.3	11.6	12.0	11.7	6.4	3.7	14.8
09	09-00	277	.56	.72	.89	.92	.35	9.2	10.0	10.9	9.4	6.5	3.8	16.4
09	12-00	279	.56	.69	.84	.88	.36	8.9	10.1	9.9	10.2	6.4	3.6	15.6
09	15-00	297	.64	.78	1.00	1.16	.42	8.5	9.9	10.9	10.9	6.0	3.8	14.8
09	18-00	403	.63	.79	1.06	1.12	.42	6.1	7.6	9.2	10.9	4.5	3.0	14.8
10	00-00	337	.48	.59	.74	.77	.31	7.3	8.3	8.1	7.8	5.3	3.4	14.8
10	03-00	294	.54	.69	.90	.92	.35	8.9	11.3	13.0	10.9	6.1	3.4	15.6
10	06-00	322	.52	.68	.89	.99	.32	8.6	10.6	11.2	8.6	5.5	3.2	15.6
10	09-00	372	.54	.67	.85	.92	.36	6.4	7.3	6.2	4.7	4.8	3.3	13.3
10	12-00	370	.60	.75	.92	1.13	.39	6.9	8.3	9.0	8.6	4.8	3.2	14.1
11	12-00	254	.46	.58	.66	.69	.28	10.5	11.5	12.0	13.3	7.0	4.1	16.4
11	15-00	251	.53	.69	.82	.85	.32	10.7	12.7	13.8	14.1	7.1	4.2	16.4
11	18-00	232	.57	.75	1.13	1.15	.35	11.8	12.4	12.9	12.5	7.7	3.9	16.4
11	21-00	238	.56	.72	.92	.92	.34	11.5	12.8	12.1	13.3	7.5	4.0	14.8
12	00-00	239	.48	.60	.75	.76	.31	10.9	11.4	10.2	10.9	7.5	4.6	16.4
12	03-00	232	.54	.71	1.00	1.02	.34	11.5	12.4	12.5	12.5	7.7	4.3	18.0
12	06-00	228	.59	.74	.91	.97	.35	12.0	12.9	13.3	11.7	7.8	4.1	16.4
12	09-00	250	.49	.60	.71	.72	.30	11.0	12.2	11.2	11.7	7.2	3.6	16.4
12	12-00	89	.49	.62	.73	.73	.31	11.4	12.8	11.7	11.7	8.1	4.8	15.6
12	15-00	223	.60	.75	.88	.89	.36	12.1	13.2	13.3	12.5	8.0	4.3	16.4
12	18-00	217	.64	.80	1.00	1.01	.38	12.0	13.1	12.5	11.7	8.2	4.1	14.8
12	21-00	230	.61	.78	1.01	1.02	.35	12.0	12.5	12.9	11.7	7.8	3.8	15.6
13	00-00	184	.67	.83	1.06	1.07	.41	12.8	12.6	12.1	11.7	9.7	5.0	17.2
13	06-00	183	.72	.87	1.13	1.16	.46	12.6	12.7	11.7	11.7	9.7	4.4	17.2
13	09-00	256	.61	.76	.94	1.08	.37	11.4	12.4	12.2	10.9	7.0	3.3	15.6
13	12-00	323	.60	.77	1.00	1.13	.36	9.4	11.3	12.0	11.7	5.5	2.9	14.8
13	15-00	258	.76	.98	1.19	1.31	.45	11.2	11.7	12.2	12.5	6.9	3.2	15.6
13	18-00	289	.75	.96	1.27	1.34	.44	10.2	12.2	12.8	11.7	6.2	3.2	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)
13	21-00	363	.64	.83	1.03	1.07	.42	7.2	9.6	9.8	10.2	4.9	2.9	17.2
14	00-00	333	.62	.80	1.10	1.21	.39	7.8	9.3	11.7	12.5	5.4	3.5	15.6
14	06-00	310	.73	.95	1.23	1.39	.45	8.4	10.6	13.0	13.3	5.7	3.5	18.0
14	09-00	325	.80	1.00	1.19	1.20	.50	8.3	9.2	10.9	7.8	5.5	3.5	15.6
14	12-00	375	.84	1.04	1.26	1.33	.55	6.2	6.8	6.8	10.9	4.8	3.2	15.6
14	15-00	399	1.11	1.37	1.77	1.82	.71	5.5	5.4	5.1	4.7	4.5	3.6	13.3
14	18-00	325	1.12	1.39	1.62	1.63	.72	7.1	7.8	7.8	10.9	5.5	4.0	15.6
14	21-00	335	1.46	1.79	2.42	2.66	.91	6.5	6.4	6.5	5.5	5.3	3.8	14.1
15	00-00	298	1.92	2.51	3.19	3.26	1.20	6.9	7.0	7.0	7.0	6.0	4.4	11.7
15	03-00	344	1.42	1.77	2.34	2.48	.88	6.7	6.6	6.5	5.5	5.2	3.8	11.7
15	06-00	316	1.47	1.82	2.53	2.87	.94	6.9	6.5	6.2	6.2	5.7	4.0	12.5
15	09-00	342	1.41	1.75	2.45	2.51	.90	6.6	6.6	6.8	7.0	5.3	3.8	13.3
15	12-00	361	1.40	1.72	2.09	2.24	.91	6.4	6.8	6.1	6.2	5.0	3.6	12.5
15	15-00	359	1.27	1.59	1.93	2.13	.82	6.1	6.2	6.6	7.0	5.0	3.9	13.3
15	18-00	359	1.27	1.54	1.89	2.00	.80	6.0	6.7	5.9	5.5	5.0	3.7	18.0
15	21-00	372	1.00	1.23	1.65	1.98	.66	6.0	6.2	5.9	4.7	4.8	3.5	12.5
16	00-00	318	.96	1.18	1.43	1.52	.63	7.2	8.1	8.3	6.2	5.6	3.8	15.6
16	03-00	366	1.02	1.26	1.73	2.16	.65	6.4	6.8	6.2	7.0	4.9	3.5	12.5
16	06-00	370	.95	1.18	1.41	1.54	.61	6.4	6.6	6.6	5.5	4.8	3.4	13.3
16	09-00	382	.89	1.09	1.38	1.49	.59	5.8	5.7	5.5	4.7	4.7	3.5	12.5
16	12-00	389	.90	1.12	1.41	1.54	.57	5.9	5.7	6.2	7.0	4.6	3.5	12.5
16	15-00	390	.87	1.07	1.38	1.96	.56	6.0	6.1	5.7	5.5	4.6	3.3	12.5
16	18-00	406	.69	.86	1.00	1.01	.44	6.1	7.3	10.9	7.0	4.4	3.1	13.3
16	21-00	338	.61	.73	.90	.95	.40	7.0	7.4	6.2	7.0	5.3	3.9	14.1
17	00-00	351	.62	.75	.96	1.04	.41	6.4	7.4	7.4	7.8	5.1	3.4	13.3
17	03-00	315	.58	.70	.82	.83	.38	7.4	7.3	6.5	8.6	5.7	4.1	13.3
17	06-00	335	.59	.72	.88	.89	.37	7.2	8.0	7.6	10.9	5.3	3.6	14.1
17	09-00	330	.55	.67	.86	.91	.35	7.3	7.8	8.6	9.4	5.4	3.9	13.3
17	15-00	280	.63	.79	1.02	1.09	.39	9.4	9.8	9.9	10.2	6.4	3.7	13.3
17	18-00	292	.63	.82	1.09	1.18	.38	8.7	9.4	9.6	10.2	6.1	3.5	11.7
17	21-00	295	.59	.75	1.02	1.05	.36	8.8	9.4	9.6	8.6	6.1	3.6	13.3
18	00-00	299	.54	.66	.87	.92	.33	8.9	9.6	9.9	10.9	6.0	3.4	13.3
18	03-00	298	.55	.71	.89	.93	.32	9.1	9.5	8.9	9.4	6.0	3.3	14.1
18	06-00	280	.57	.75	.97	1.02	.35	8.9	9.5	8.6	8.6	6.4	3.9	14.1
18	09-00	294	.61	.76	.91	.98	.37	8.5	9.0	8.9	9.4	6.1	3.9	14.1
18	12-00	351	.52	.67	.83	.86	.33	7.4	8.8	9.4	10.2	5.1	3.1	14.1
18	15-00	364	.49	.63	.82	.86	.30	7.9	9.1	9.8	7.8	4.9	2.7	14.8
18	18-00	340	.51	.66	.78	.81	.31	8.3	10.2	10.7	10.9	5.3	2.9	14.1
18	21-00	310	.49	.63	.80	.86	.31	8.4	9.7	10.7	9.4	5.8	3.4	14.8
19	00-00	311	.48	.63	.92	1.14	.30	8.6	10.1	10.9	10.2	5.7	3.5	14.8
19	03-00	297	.46	.58	.72	.72	.29	8.6	9.4	9.1	10.2	6.0	3.3	14.8
19	06-00	279	.43	.54	.66	.67	.28	9.7	10.5	12.2	11.7	6.4	3.6	15.6
19	09-00	244	.49	.59	.79	.90	.29	10.7	11.4	12.5	10.9	7.3	3.8	15.6
19	12-00	370	.43	.58	.74	.78	.27	7.2	9.4	10.0	9.4	4.8	2.8	14.1
19	15-00	439	.55	.70	.90	.96	.36	5.7	7.2	8.8	8.6	4.1	2.8	15.6

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)
19	18-00	446	.59	.73	.91	.99	.39	5.3	7.2	7.4	3.9	4.0	2.9	13.3
19	21-00	452	.58	.69	.88	1.00	.39	4.7	5.3	7.2	7.8	4.0	3.1	11.7
20	00-00	446	.63	.80	1.03	1.12	.41	4.9	5.4	5.7	3.9	4.0	3.2	13.3
20	03-00	454	.62	.77	.96	1.09	.41	4.9	5.7	4.7	3.9	3.9	3.1	12.5
20	06-00	457	.54	.67	.83	.89	.36	5.3	5.8	5.9	3.1	3.9	2.8	11.7
20	09-00	436	.58	.74	1.05	1.21	.39	5.3	6.1	10.2	8.6	4.1	3.0	12.5
20	12-00	449	.56	.69	.86	.95	.38	4.8	5.2	3.7	3.1	4.0	3.0	11.7
20	15-00	468	.63	.78	.98	1.04	.42	4.6	5.1	5.5	4.7	3.8	3.1	10.2
20	18-00	468	.63	.78	1.02	1.14	.42	4.9	5.3	5.8	7.0	3.8	3.0	15.6
20	21-00	451	.58	.72	.93	1.11	.38	4.9	5.0	5.3	3.9	4.0	2.9	11.7
21	00-00	398	.58	.72	.91	1.02	.38	5.5	5.8	7.4	8.6	4.5	3.4	14.8
21	03-00	398	.58	.74	.99	1.18	.38	5.6	5.9	7.6	9.4	4.5	3.4	13.3
21	06-00	404	.70	.87	1.03	1.09	.45	5.4	5.7	4.5	4.7	4.4	3.4	11.7
21	09-00	381	.76	.94	1.23	1.37	.49	5.4	5.4	4.9	4.7	4.7	3.7	10.9
21	15-00	369	.63	.76	.95	1.08	.43	6.1	6.7	7.2	9.4	4.9	3.5	15.6
21	18-00	283	.64	.80	.98	1.05	.42	6.1	6.5	8.6	6.2	4.7	3.3	13.3
21	21-00	340	.59	.73	.92	.98	.39	6.6	7.2	7.6	5.5	5.3	3.7	14.8
23	12-00	304	.57	.70	.91	1.00	.38	6.8	7.3	7.0	6.2	5.9	4.6	12.5
23	15-00	323	.50	.61	.82	.92	.33	6.8	7.0	6.8	8.6	5.5	4.3	16.4
23	18-00	312	.49	.61	.89	1.09	.32	6.7	6.9	7.3	7.0	5.7	4.4	11.7
23	21-00	315	.47	.57	.76	.86	.31	7.1	7.4	6.2	5.5	5.7	3.8	12.5
24	00-00	333	.46	.56	.69	.76	.31	6.9	7.2	7.6	7.8	5.4	3.9	10.9
24	03-00	331	.45	.56	.78	.82	.29	6.6	6.7	7.3	7.8	5.4	3.9	10.9
24	06-00	350	.38	.49	.63	.68	.25	6.7	6.8	6.8	7.8	5.1	3.4	11.7
24	09-00	300	.37	.45	.60	.62	.24	7.3	7.6	8.1	7.8	6.0	4.2	14.1
24	12-00	281	.43	.54	.71	.76	.28	7.7	7.2	7.0	7.0	6.4	4.3	12.5
24	15-00	257	.42	.52	.60	.64	.27	7.1	7.3	7.6	7.8	5.8	3.9	13.3
24	18-00	368	.40	.52	.70	.77	.25	6.7	7.1	7.6	7.0	4.9	3.1	12.5
24	21-00	293	.35	.44	.52	.54	.22	7.6	7.8	8.9	7.8	6.1	3.9	14.1
25	00-00	283	.39	.47	.54	.55	.25	7.6	7.6	6.8	6.2	6.3	4.4	14.1
25	03-00	154	.39	.48	.58	.58	.26	7.5	7.2	7.4	7.8	6.1	4.3	11.7
25	06-00	276	.57	.72	.95	.97	.35	8.1	8.2	7.8	8.6	6.5	4.4	12.5
25	09-00	258	.51	.64	.85	.91	.32	8.2	8.3	7.8	8.6	6.9	4.7	12.5
25	12-00	307	.59	.75	.95	.98	.36	8.2	8.3	7.6	8.6	5.8	3.9	12.5
25	15-00	315	.70	.92	1.18	1.26	.43	8.0	8.5	8.6	8.6	5.7	3.5	12.5
25	18-00	350	.82	1.07	1.33	1.52	.50	7.6	9.0	9.8	9.4	5.1	3.3	11.7
25	21-00	381	.73	.93	1.13	1.14	.46	6.6	7.8	8.4	7.0	4.7	3.1	11.7
28	12-00	347	.64	.78	.99	1.03	.41	6.7	7.1	8.1	7.0	5.2	3.6	11.7
28	15-00	385	.60	.74	.88	.90	.39	6.0	6.7	7.2	6.2	4.7	3.2	10.2
28	18-00	380	.68	.85	1.02	1.03	.43	6.3	6.4	6.2	7.8	4.7	3.3	10.2
28	21-00	338	.70	.87	1.12	1.33	.45	6.7	6.7	8.6	8.6	5.3	3.6	11.7
29	00-00	351	.77	.94	1.22	1.44	.48	6.4	6.6	6.4	7.8	5.1	3.8	10.2
29	03-00	321	.71	.88	1.13	1.14	.46	6.7	6.6	7.0	6.2	5.6	4.4	11.7
29	12-00	299	.79	.96	1.36	1.59	.52	6.9	6.7	7.0	5.5	6.0	4.4	14.1
29	15-00	323	.67	.84	1.09	1.23	.43	6.9	7.1	7.0	7.0	5.5	3.9	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)
29	18-00	311	.68	.86	1.11	1.19	.45	7.4	7.8	6.2	6.2	5.8	3.9	13.3
29	21-00	317	.69	.85	1.19	1.29	.45	7.2	8.1	9.1	8.6	5.7	3.7	13.3
30	00-00	297	.76	.93	1.18	1.37	.48	7.7	7.4	7.0	7.8	6.0	4.5	16.4
30	03-00	273	.73	.90	1.10	1.14	.48	8.7	9.2	11.7	13.3	6.6	4.5	14.8
30	06-00	265	.76	.95	1.19	1.22	.49	8.6	9.2	10.2	10.2	6.7	4.6	14.8
30	09-00	245	.92	1.12	1.34	1.34	.58	9.7	10.9	10.2	10.9	7.3	4.7	18.0
30	12-00	251	.81	1.03	1.31	1.33	.53	9.3	8.8	8.3	8.6	7.1	4.9	16.4
30	15-00	238	.91	1.10	1.49	1.67	.57	9.7	9.9	10.9	10.9	7.5	4.9	14.1
30	18-00	236	.95	1.20	1.75	1.83	.61	9.3	9.5	9.4	9.4	7.6	5.0	14.8
30	21-00	224	1.07	1.32	1.76	1.93	.68	10.3	10.4	10.9	9.4	8.0	4.9	17.2
31	00-00	199	1.28	1.63	2.21	2.27	.82	11.0	11.4	10.5	11.7	9.0	6.0	16.4
31	03-00	176	1.81	2.39	3.17	3.23	1.11	12.2	12.4	12.5	12.5	10.1	6.4	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)
01	15-00	308	.77	.95	1.26	1.31	.50	7.8	8.4	8.6	9.4	5.8	3.8	14.1
01	18-00	324	.79	.99	1.21	1.23	.51	7.4	8.2	8.6	7.0	5.5	3.5	12.5
02	00-00	352	.67	.82	.94	.96	.42	7.1	7.4	7.6	8.6	5.1	3.6	13.3
02	09-00	359	.79	.98	1.23	1.37	.50	6.8	7.1	5.9	7.0	5.0	3.4	13.3
02	12-00	316	.85	1.06	1.28	1.31	.54	7.6	8.2	7.0	7.0	5.7	3.8	14.8
02	15-00	299	.90	1.11	1.42	1.54	.57	8.4	9.0	8.3	7.0	6.0	3.8	13.3
02	18-00	257	1.23	1.49	1.81	1.83	.76	9.5	10.3	10.4	10.9	7.0	4.2	15.6
02	21-00	289	1.23	1.54	1.93	1.95	.77	8.8	9.6	9.1	8.6	6.2	3.8	13.3
03	00-00	286	1.15	1.53	1.98	2.05	.71	8.7	9.6	9.1	10.2	6.3	4.0	14.8
03	03-00	259	1.17	1.47	1.71	1.77	.73	9.0	9.9	9.9	9.4	6.9	4.6	13.3
03	06-00	272	1.27	1.59	2.06	2.17	.79	8.9	9.5	9.6	9.4	6.5	4.3	13.3
03	09-00	294	1.22	1.59	2.10	2.42	.74	8.0	8.9	9.9	9.4	6.1	4.1	12.5
03	12-00	284	1.22	1.49	1.92	2.38	.78	8.1	8.6	8.3	7.8	6.3	4.0	11.7
03	15-00	307	1.09	1.37	1.83	1.96	.68	7.6	8.4	8.3	8.6	5.8	4.1	12.5
03	18-00	307	1.29	1.56	2.05	2.37	.81	7.6	7.3	6.8	6.2	5.8	3.9	11.7
03	21-00	294	1.37	1.66	2.09	2.19	.86	8.0	8.6	7.8	8.6	6.1	4.2	11.7
04	00-00	305	1.21	1.54	1.99	2.20	.77	7.6	7.7	7.8	7.0	5.9	4.0	12.5
04	03-00	302	1.33	1.64	2.03	2.17	.83	8.1	8.4	8.6	8.6	5.9	3.8	12.5
04	06-00	321	1.40	1.75	2.19	2.32	.90	7.3	7.4	7.8	9.4	5.6	3.9	10.9
04	09-00	362	1.52	1.98	2.61	2.79	.94	6.5	6.7	6.1	6.2	5.0	3.7	10.2
04	12-00	334	1.55	1.88	2.19	2.23	.99	6.6	7.0	7.8	8.6	5.4	3.8	10.9
04	15-00	315	1.43	1.76	2.29	2.36	.94	6.9	7.0	6.8	7.0	5.7	4.0	10.2
04	18-00	304	1.56	1.98	2.54	2.68	1.00	7.1	7.0	6.2	5.5	5.9	4.3	11.7
04	21-00	308	1.65	2.07	2.73	2.99	1.07	7.0	7.2	7.0	7.8	5.8	4.6	10.9
05	00-00	278	1.89	2.42	3.09	3.26	1.20	7.9	7.9	7.6	7.8	6.4	4.5	10.9
05	03-00	304	1.54	1.89	2.28	2.33	1.00	7.7	7.7	8.1	7.8	5.9	3.9	11.7
05	06-00	303	1.74	2.19	2.66	2.77	1.09	7.2	7.8	8.1	7.0	5.9	4.5	11.7
05	09-00	282	2.11	2.59	3.32	3.54	1.38	7.5	7.8	8.1	7.8	6.3	4.6	12.5
05	12-00	299	1.91	2.31	2.80	2.94	1.25	7.1	7.3	7.0	7.0	6.0	4.1	10.9
05	15-00	315	1.78	2.16	2.56	2.59	1.13	7.4	7.5	8.9	8.6	5.7	4.1	10.9
05	18-00	309	1.77	2.18	2.80	2.95	1.12	7.0	7.1	7.3	7.8	5.8	4.1	10.2
05	21-00	290	2.14	2.76	3.68	3.75	1.38	7.6	7.6	7.8	7.8	6.2	4.5	11.7
06	00-00	299	2.10	2.63	3.24	3.38	1.32	7.2	7.2	6.5	7.0	6.0	4.2	10.9
06	03-00	301	1.84	2.29	2.97	3.16	1.15	7.5	7.5	7.3	7.8	5.9	4.3	11.7
06	06-00	287	1.50	1.91	2.56	2.74	.92	7.7	7.8	8.3	8.6	6.2	4.2	11.7
06	09-00	289	1.61	1.96	2.35	2.42	1.04	7.5	7.3	7.6	7.0	6.2	4.6	10.2
06	12-00	302	1.54	1.93	2.48	2.56	.99	7.0	7.0	6.8	7.0	5.9	4.3	12.5
07	18-00	384	.63	.79	1.03	1.11	.41	6.2	6.7	6.2	7.0	4.7	3.4	12.5
07	21-00	200	.59	.72	.84	.84	.38	6.9	7.9	9.0	7.8	5.3	3.8	12.5
08	00-00	201	.56	.70	.87	.93	.36	6.6	6.5	5.5	5.5	5.2	3.7	12.5
08	03-00	352	.65	.81	1.01	1.06	.42	6.3	6.7	7.2	5.5	5.1	3.7	12.5
08	06-00	369	.54	.67	.85	1.00	.35	6.4	7.0	6.1	7.0	4.9	3.5	13.3
08	09-00	212	.50	.65	.81	.90	.33	8.4	9.8	9.8	7.8	6.1	3.8	17.2
08	12-00	318	.52	.67	.84	.94	.34	7.4	8.3	6.5	7.8	5.6	3.9	15.6
08	15-00	363	.60	.71	.86	.94	.40	6.8	8.2	6.4	6.2	4.9	3.2	14.1

PARAMETROS CALCULADOS PELO METODO DIRECTO SMIGUEL SET 2006

DIA	HORA	NA	HS (m)	H10 (m)	H100 (m)	HMAX (m)	HMED (m)	THS (s)	TH10 (s)	TH100 (s)	THMAX (s)	TZ (s)	TC (s)	TMAX (s)
08	21-00	211	.54	.67	.83	.83	.34	11.8	11.6	9.8	10.2	8.4	4.5	16.4
09	00-00	206	.62	.75	1.02	1.16	.40	11.6	11.8	11.7	10.9	8.7	4.9	18.0
09	03-00	262	.69	.91	1.23	1.29	.42	10.6	11.8	11.5	9.4	6.8	3.3	15.6
09	06-00	269	.79	1.00	1.19	1.22	.46	10.6	10.9	10.9	10.9	6.6	3.1	14.1
09	09-00	284	.91	1.17	1.52	1.58	.54	9.4	10.1	10.4	9.4	6.3	3.6	14.8
09	12-00	347	.96	1.19	1.54	1.75	.60	7.1	8.5	9.4	10.9	5.2	3.5	14.8
09	15-00	383	1.15	1.41	1.67	1.68	.75	5.8	6.3	7.0	5.5	4.7	3.5	13.3
09	18-00	401	1.09	1.37	1.81	2.07	.71	5.4	5.8	6.1	4.7	4.5	3.4	14.1
09	21-00	315	1.60	2.02	2.50	2.58	1.04	6.8	6.9	6.2	7.0	5.7	4.3	13.3
10	00-00	329	1.51	1.85	2.26	2.45	1.00	6.5	6.7	7.0	6.2	5.4	4.1	12.5
10	06-00	344	1.32	1.64	2.16	2.33	.87	6.4	6.6	7.3	5.5	5.2	3.8	11.7
10	09-00	283	1.14	1.44	1.74	1.86	.72	7.5	7.5	7.6	9.4	6.3	4.7	14.8
10	12-00	282	1.19	1.51	2.16	2.35	.75	7.5	7.3	8.1	6.2	6.3	5.0	14.8
10	18-00	332	1.04	1.24	1.49	1.52	.68	6.7	7.3	6.2	7.8	5.4	3.8	13.3
10	21-00	273	.82	.99	1.20	1.24	.53	7.9	7.3	7.3	7.0	6.5	4.4	14.1
11	00-00	269	.81	.98	1.24	1.34	.53	7.6	7.4	8.6	7.0	6.7	5.2	14.8
11	03-00	288	.79	.99	1.39	1.51	.52	7.5	7.8	7.3	7.8	6.2	4.7	15.6
11	06-00	304	.76	.98	1.26	1.34	.48	7.6	8.5	8.6	10.2	5.9	4.1	13.3
11	09-00	251	.70	.85	1.05	1.13	.44	9.5	9.9	10.4	10.2	7.1	4.4	16.4
11	12-00	251	.63	.80	1.04	1.30	.41	8.1	8.2	7.3	8.6	7.1	5.3	14.8
11	15-00	258	.68	.83	1.03	1.05	.45	8.1	8.4	8.9	7.8	6.9	5.3	14.1
11	18-00	314	.79	1.00	1.30	1.44	.49	8.1	9.3	8.1	6.2	5.7	3.6	14.8
11	21-00	224	.72	.92	1.13	1.17	.47	9.7	10.0	8.6	9.4	8.0	5.1	16.4
12	00-00	229	.62	.76	.91	.92	.39	9.4	10.1	12.1	12.5	7.8	5.3	16.4
12	03-00	252	.60	.75	.96	1.08	.38	9.1	10.0	9.1	9.4	7.1	4.5	15.6
12	06-00	276	.67	.84	1.09	1.15	.42	9.4	11.0	11.2	11.7	6.5	3.9	16.4
12	09-00	327	.66	.81	.99	1.03	.43	7.8	8.9	8.9	7.0	5.5	3.2	18.8
12	12-00	308	.69	.87	1.02	1.05	.44	8.3	10.0	8.9	7.0	5.8	3.5	14.8
12	15-00	312	.75	.96	1.23	1.24	.48	7.9	8.9	9.4	12.5	5.8	3.5	15.6
12	18-00	371	.83	1.04	1.36	1.52	.55	6.0	7.1	6.1	4.7	4.8	3.5	15.6
12	21-00	365	.87	1.08	1.34	1.38	.57	6.3	7.3	7.6	5.5	4.9	3.4	14.1
13	00-00	367	.86	1.05	1.23	1.31	.54	6.5	7.0	7.8	7.0	4.9	3.5	14.1
13	03-00	356	.85	1.04	1.30	1.41	.55	6.2	6.4	5.7	7.0	5.0	3.8	14.8
13	06-00	379	1.05	1.28	1.64	1.76	.69	5.5	5.3	5.1	4.7	4.7	3.7	11.7
13	09-00	323	1.12	1.38	1.62	1.73	.72	7.2	8.0	7.0	6.2	5.5	3.7	14.1
13	12-00	322	.89	1.14	1.38	1.43	.55	7.8	8.5	8.6	5.5	5.6	3.4	14.8
13	15-00	296	.89	1.10	1.44	1.58	.58	7.6	7.4	8.1	7.8	6.0	4.3	14.1
13	18-00	322	.91	1.10	1.29	1.31	.58	7.5	8.2	7.3	5.5	5.6	4.0	14.8
13	21-00	300	.96	1.16	1.36	1.41	.61	8.3	8.6	10.4	11.7	6.0	3.9	15.6
14	00-00	258	1.00	1.22	1.47	1.55	.65	8.8	9.0	8.6	8.6	6.9	4.5	14.8
14	03-00	244	1.03	1.27	1.60	1.63	.69	9.1	9.4	10.5	10.9	7.3	4.9	14.8
14	09-00	244	1.27	1.56	2.03	2.16	.79	10.0	10.2	9.8	9.4	7.3	4.5	14.1
14	12-00	228	1.01	1.25	1.42	1.43	.66	9.4	9.4	9.8	9.4	7.8	4.8	14.8
14	15-00	294	.90	1.12	1.44	1.51	.56	8.0	8.1	8.6	10.2	6.1	3.8	15.6
14	18-00	266	.73	.91	1.10	1.15	.47	8.8	9.4	10.2	13.3	6.7	4.5	14.8

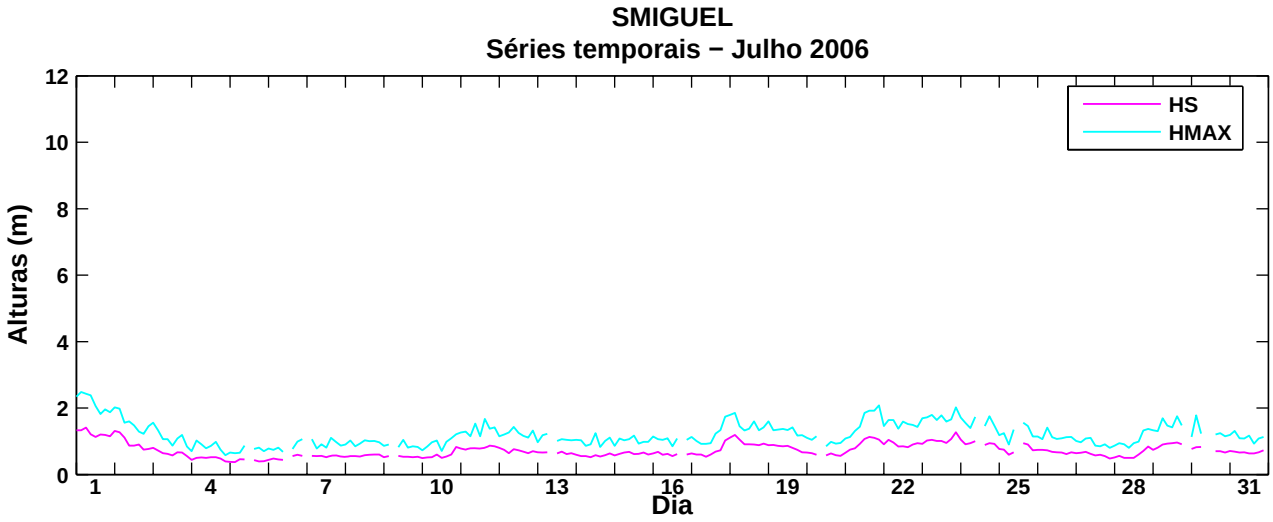
DIA	HORA	NA	HS (m)	H10 (m)	H100 (m)	HMAX (m)	HMED (m)	THS (s)	TH10 (s)	TH100 (s)	THMAX (s)	TZ (s)	TC (s)	TMAX (s)
14	21-00	260	.86	1.07	1.32	1.34	.54	9.4	10.2	8.9	8.6	6.9	4.3	15.6
15	00-00	237	.80	.96	1.12	1.15	.51	9.5	10.2	8.2	7.8	7.6	5.2	16.4
15	03-00	227	.84	1.04	1.22	1.23	.53	10.4	11.3	13.3	9.4	7.9	4.4	17.2
15	06-00	251	.88	1.13	1.32	1.33	.52	11.0	12.7	15.1	14.8	7.2	3.6	18.0
15	09-00	304	.95	1.20	1.70	1.99	.59	9.2	11.8	11.5	12.5	5.9	3.3	17.2
15	12-00	250	1.09	1.40	1.82	2.01	.67	11.5	13.2	13.5	12.5	7.2	3.6	18.0
15	15-00	286	1.26	1.62	2.01	2.07	.78	9.9	12.0	14.3	14.8	6.3	3.8	17.2
15	18-00	311	1.33	1.69	2.31	2.40	.82	8.3	10.1	13.5	13.3	5.8	3.7	16.4
18	15-00	221	1.04	1.27	1.51	1.54	.66	9.9	9.9	9.4	9.4	8.1	4.8	14.8
18	18-00	247	1.05	1.31	1.65	1.66	.65	9.8	10.0	10.9	10.9	7.2	3.8	14.1
18	21-00	254	1.17	1.47	1.78	1.82	.71	9.5	9.8	9.4	9.4	7.0	4.0	12.5
19	00-00	331	1.04	1.31	1.73	1.81	.67	8.1	9.1	9.4	9.4	5.4	3.5	12.5
19	03-00	302	1.06	1.29	1.57	1.60	.66	8.7	9.4	10.4	8.6	5.9	3.6	12.5
19	06-00	314	1.10	1.40	1.70	1.75	.67	8.2	8.8	8.9	11.7	5.7	3.7	13.3
19	09-00	283	1.18	1.54	2.00	2.05	.73	8.6	9.1	9.9	9.4	6.3	4.4	12.5
19	18-00	304	1.18	1.54	2.05	2.28	.71	8.4	9.3	8.6	8.6	5.9	3.8	12.5
19	21-00	326	1.33	1.64	2.21	2.25	.83	7.4	7.9	9.4	10.9	5.5	3.8	12.5
20	00-00	215	1.31	1.63	1.99	2.05	.85	5.9	6.3	6.2	6.2	4.8	3.8	12.5
20	03-00	362	1.73	2.16	2.60	2.77	1.11	5.9	5.5	6.1	5.5	4.9	3.9	10.9
20	06-00	300	3.11	3.96	5.33	5.48	1.97	7.0	7.1	8.1	8.6	6.0	4.5	11.7
20	09-13	173	6.04	7.80	9.49	9.53	3.79	12.7	13.1	12.9	14.8	10.3	6.5	18.0
20	09-44	166	6.79	8.32	11.13	11.64	4.25	12.7	12.7	11.7	11.7	10.7	6.7	18.0
20	10-14	180	5.60	6.95	8.16	8.20	3.52	12.1	12.1	12.5	12.5	10.0	6.1	19.5
20	10-45	190	4.94	6.05	7.10	7.42	3.08	12.2	12.5	13.3	12.5	9.4	5.8	18.0
20	11-35	193	4.85	5.92	7.84	9.03	3.07	12.0	12.0	11.7	10.9	9.3	5.7	16.4
20	15-00	238	3.20	3.94	4.72	4.77	2.00	10.2	10.2	10.5	10.9	7.5	4.7	14.8
20	18-00	214	2.86	3.54	4.52	4.74	1.78	10.6	10.8	9.8	10.2	8.3	4.6	14.1
20	21-00	239	2.44	3.07	4.35	4.47	1.55	9.7	9.8	10.5	10.2	7.5	4.4	14.8
21	00-00	249	2.42	2.94	4.01	4.32	1.55	9.2	9.0	8.6	9.4	7.2	4.7	14.1
21	03-00	250	2.65	3.27	4.13	4.33	1.68	9.3	9.2	8.3	7.0	7.2	4.6	14.8
21	06-00	228	2.82	3.41	4.07	4.09	1.83	9.6	9.5	9.8	8.6	7.8	5.9	14.1
21	09-00	250	2.52	3.12	3.96	4.38	1.52	9.1	9.7	9.4	9.4	7.2	5.0	14.8
21	12-00	262	2.09	2.62	3.21	3.37	1.33	8.4	8.7	8.1	7.8	6.8	4.7	14.1
21	15-00	242	2.20	2.72	3.43	3.43	1.41	9.4	9.6	9.8	10.2	7.4	4.5	14.8
21	18-00	252	1.84	2.30	2.74	2.93	1.18	9.4	9.6	9.4	7.8	7.1	4.5	13.3
21	21-00	279	1.73	2.21	2.79	2.94	1.08	8.2	8.8	8.9	10.2	6.4	4.4	13.3
22	00-00	261	1.92	2.37	2.91	2.98	1.24	8.6	9.3	8.9	9.4	6.9	4.7	14.1
22	03-00	288	1.90	2.36	2.89	3.26	1.20	8.1	7.9	8.3	7.8	6.2	4.2	14.1
22	06-00	298	1.90	2.32	3.02	3.18	1.20	7.3	7.8	7.8	7.8	6.0	4.8	13.3
22	09-00	313	1.85	2.25	2.86	3.12	1.17	6.9	6.9	8.1	9.4	5.7	4.3	13.3
22	12-00	324	1.50	1.90	2.59	2.87	.96	6.8	7.1	7.3	7.8	5.5	4.0	12.5
22	15-00	325	1.72	2.10	2.67	2.87	1.10	7.0	6.7	6.8	7.0	5.5	3.9	12.5
22	18-00	306	1.96	2.43	3.06	3.44	1.23	7.5	8.2	7.8	8.6	5.9	4.1	12.5
22	21-00	286	1.78	2.16	2.64	2.72	1.14	7.6	7.9	9.4	10.2	6.2	4.4	11.7
23	03-00	317	1.36	1.71	2.21	2.44	.86	7.4	7.7	9.1	8.6	5.7	3.9	13.3

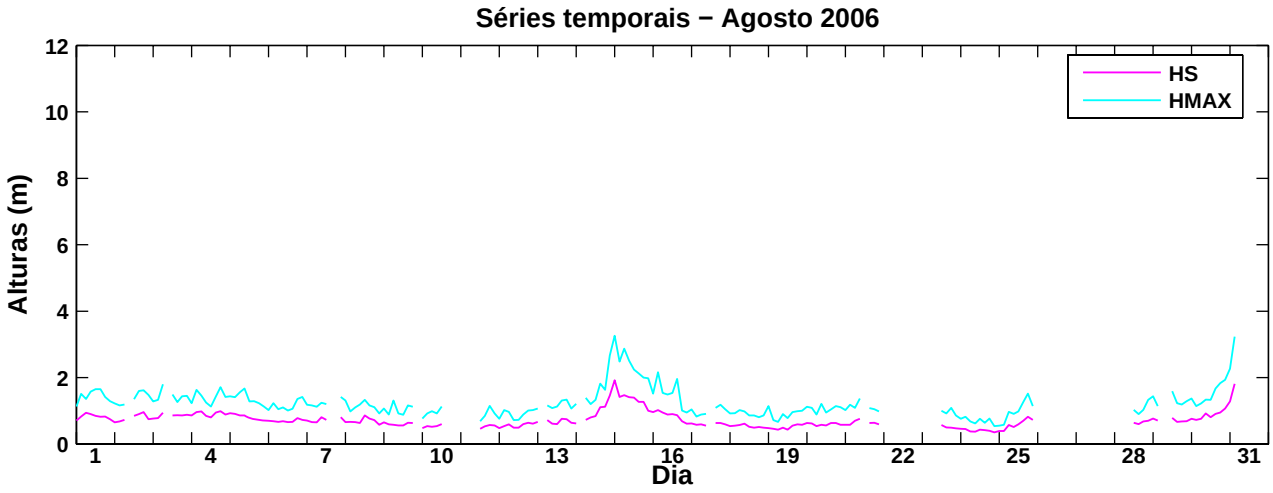
DIA	HORA	NA	HS (m)	H10 (m)	H100 (m)	HMAX (m)	HMED (m)	THS (s)	TH10 (s)	TH100 (s)	THMAX (s)	TZ (s)	TC (s)	TMAX (s)
23	06-00	337	1.49	1.85	2.29	2.41	.94	6.7	7.3	8.6	6.2	5.3	4.0	12.5
23	09-00	285	1.31	1.64	2.17	2.29	.83	7.8	7.5	6.5	6.2	6.3	4.3	13.3
23	12-00	292	1.21	1.47	1.81	2.06	.78	7.4	7.8	7.6	10.2	6.1	4.1	14.8
23	15-00	307	1.39	1.71	2.37	2.65	.87	7.6	7.1	6.8	6.2	5.8	4.1	13.3
23	18-00	319	1.21	1.47	1.90	2.05	.78	7.4	7.9	8.9	8.6	5.6	3.6	12.5
23	21-00	268	1.06	1.38	1.66	1.76	.67	8.5	9.5	9.6	10.2	6.7	4.2	16.4
24	00-00	259	1.07	1.30	1.68	1.74	.69	8.7	9.6	8.9	8.6	6.9	4.8	16.4
24	06-00	280	1.13	1.43	1.77	1.82	.69	9.4	10.6	12.5	12.5	6.4	3.9	14.8
24	09-00	234	.89	1.08	1.25	1.26	.57	10.2	11.0	11.3	7.8	7.7	5.0	17.2
24	12-00	165	1.08	1.35	1.58	1.62	.67	10.5	11.5	14.1	14.1	7.6	4.3	14.8
24	15-00	249	1.32	1.68	2.18	2.22	.80	10.6	11.7	10.9	10.2	7.2	4.1	16.4
24	21-00	216	1.67	2.20	2.95	3.17	.99	13.8	14.8	15.2	14.8	8.3	3.6	20.3
25	00-00	188	3.22	4.47	5.80	6.26	1.79	15.7	17.1	17.2	16.4	9.5	4.4	21.1
25	03-00	221	2.77	3.50	4.16	4.50	1.69	12.4	14.5	14.1	14.1	8.1	4.4	18.0
25	10-13	182	5.75	7.50	10.55	11.10	3.53	13.3	14.4	13.3	11.7	9.8	6.3	19.5
25	10-55	177	5.75	7.11	10.00	10.97	3.54	13.1	13.3	14.5	14.8	10.1	5.9	19.5
25	11-25	179	5.72	7.05	8.14	8.27	3.44	13.6	13.6	12.5	13.3	10.0	5.8	18.8
25	11-56	172	5.83	7.26	9.46	10.29	3.65	13.3	13.3	14.8	15.6	10.3	5.8	19.5
25	12-27	196	5.00	6.40	8.74	9.37	3.07	12.0	12.9	12.5	11.7	9.1	5.5	18.8
25	13-18	207	4.72	5.88	7.53	7.60	2.92	11.5	12.0	11.7	11.7	8.6	5.7	17.2
25	13-59	192	4.75	5.96	7.46	8.22	3.08	11.8	12.4	12.1	12.5	9.3	5.6	18.8
25	14-40	215	4.20	5.12	6.04	6.04	2.66	11.4	11.5	12.5	11.7	8.3	5.5	18.0
25	18-00	220	3.14	3.97	5.51	6.03	1.93	11.0	11.8	10.9	13.3	8.1	4.6	16.4
25	21-00	197	3.66	4.74	6.41	6.56	2.18	11.9	12.4	12.9	12.5	9.1	5.0	16.4
26	00-00	207	3.65	4.50	5.74	6.48	2.32	10.8	10.8	9.4	8.6	8.6	5.5	16.4
26	03-00	236	3.50	4.43	5.34	5.34	2.17	9.8	10.0	9.8	9.4	7.5	5.1	15.6
26	09-00	221	2.90	3.73	5.02	5.19	1.80	10.4	10.6	10.9	11.7	8.1	5.0	14.8
26	12-00	229	2.70	3.40	4.18	4.19	1.68	10.2	10.3	9.4	9.4	7.8	4.8	15.6
26	15-00	239	2.44	3.06	4.05	4.18	1.53	9.5	9.6	9.4	8.6	7.5	5.0	14.8
26	18-00	241	2.41	2.98	4.00	4.23	1.50	9.6	10.1	9.4	9.4	7.4	4.9	15.6
26	21-00	250	2.07	2.62	3.44	3.72	1.26	9.4	9.9	9.6	11.7	7.2	4.8	14.1
27	00-00	235	2.01	2.56	2.99	3.06	1.28	9.0	8.8	8.6	8.6	7.6	5.2	14.8
27	03-00	259	1.78	2.17	2.52	2.60	1.14	8.1	8.2	7.6	7.8	6.9	5.2	13.3
27	06-00	262	1.69	2.11	2.44	2.64	1.07	8.4	8.7	8.3	9.4	6.8	4.8	14.8
27	09-00	270	1.48	1.89	2.32	2.44	.94	8.3	8.9	8.1	8.6	6.6	4.6	12.5
27	12-00	253	1.17	1.46	1.81	1.85	.74	8.2	8.6	8.6	8.6	7.1	4.7	14.8
27	15-00	274	1.14	1.34	1.58	1.63	.73	7.7	7.7	7.3	7.0	6.5	4.9	15.6
27	18-00	301	1.15	1.44	1.80	1.82	.73	7.2	7.5	7.8	8.6	5.9	4.2	13.3
27	21-00	303	1.10	1.40	1.65	1.71	.70	7.6	7.7	8.1	7.8	5.9	4.2	12.5
28	00-00	295	.95	1.17	1.51	1.72	.59	7.7	7.8	8.3	7.8	6.1	4.1	12.5
28	03-00	279	.96	1.19	1.60	2.08	.61	7.8	7.8	7.8	7.8	6.4	4.7	13.3
28	06-00	328	.85	1.05	1.35	1.54	.55	7.2	7.4	5.7	6.2	5.5	3.9	13.3
28	09-00	332	.93	1.15	1.56	1.82	.59	7.2	7.8	7.6	7.0	5.4	3.7	13.3
28	12-00	294	.84	1.02	1.28	1.34	.54	8.0	8.3	7.8	5.5	6.1	3.6	14.1
28	15-00	312	.89	1.11	1.36	1.40	.56	7.8	8.4	7.3	8.6	5.7	3.4	14.1

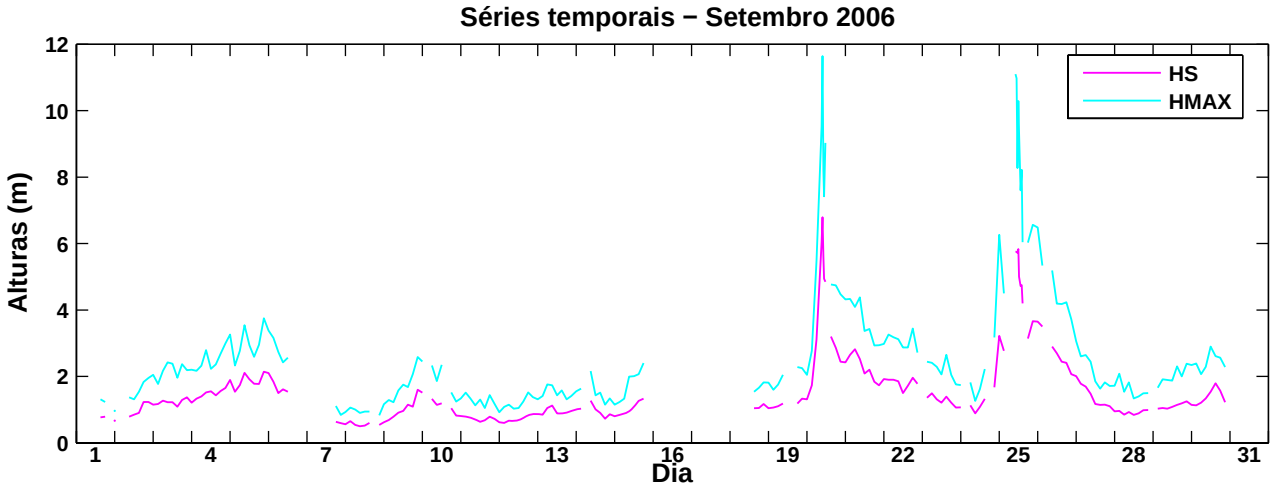
DIA	HORA	NA	HS (m)	H10 (m)	H100 (m)	HMAX (m)	HMED (m)	THS (s)	TH10 (s)	TH100 (s)	THMAX (s)	TZ (s)	TC (s)	TMAX (s)
28	18-00	325	.98	1.19	1.42	1.49	.63	7.4	7.9	7.0	10.2	5.5	3.9	13.3
28	21-00	325	.99	1.23	1.49	1.50	.64	7.6	8.4	9.6	10.2	5.5	3.6	13.3
29	03-00	299	1.03	1.28	1.57	1.66	.64	8.1	8.3	9.4	7.0	6.0	3.7	15.6
29	06-00	306	1.05	1.29	1.64	1.91	.67	7.8	8.7	7.6	8.6	5.9	4.1	13.3
29	09-00	319	1.03	1.24	1.58	1.89	.68	7.4	7.9	8.6	4.7	5.6	4.0	14.1
29	12-00	325	1.08	1.36	1.67	1.87	.67	7.9	8.1	7.6	7.8	5.5	3.5	14.1
29	15-00	339	1.14	1.44	1.93	2.30	.71	7.0	7.5	7.3	6.2	5.3	3.5	13.3
29	18-00	327	1.19	1.47	1.90	2.00	.77	7.5	7.9	9.6	13.3	5.5	4.0	13.3
29	21-00	308	1.25	1.58	2.09	2.38	.82	7.5	8.0	8.3	9.4	5.8	4.0	14.1
30	00-00	299	1.14	1.41	1.98	2.34	.68	8.8	9.4	9.4	9.4	6.0	3.6	13.3
30	03-00	326	1.13	1.44	1.99	2.39	.71	7.6	8.2	7.8	8.6	5.5	3.4	13.3
30	06-00	338	1.21	1.53	2.01	2.07	.78	7.0	8.0	9.4	10.9	5.3	3.7	13.3
30	09-00	330	1.34	1.69	2.16	2.29	.85	7.5	8.2	9.1	8.6	5.4	3.7	13.3
30	12-00	367	1.54	1.92	2.77	2.90	.99	6.0	6.0	5.7	5.5	4.9	3.8	11.7
30	15-00	322	1.79	2.19	2.51	2.61	1.16	6.8	6.7	6.0	6.2	5.6	4.2	14.1
30	18-00	305	1.57	1.99	2.49	2.56	1.00	7.0	7.1	6.8	6.2	5.9	3.9	13.3
30	21-00	287	1.22	1.49	2.01	2.28	.78	7.7	8.2	9.1	10.9	6.3	4.4	15.6

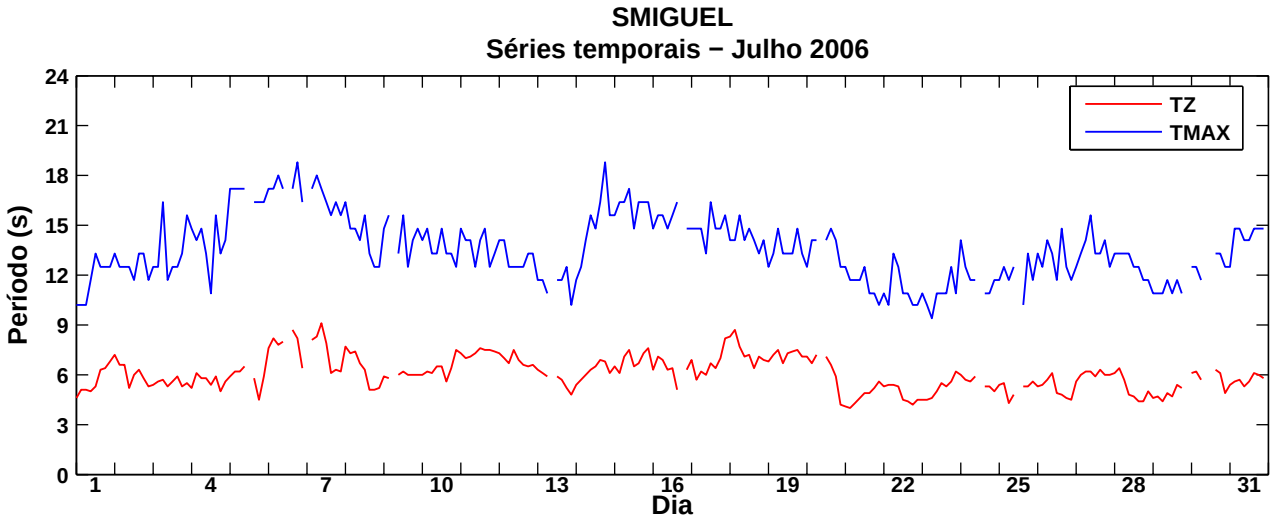
ANEXO B

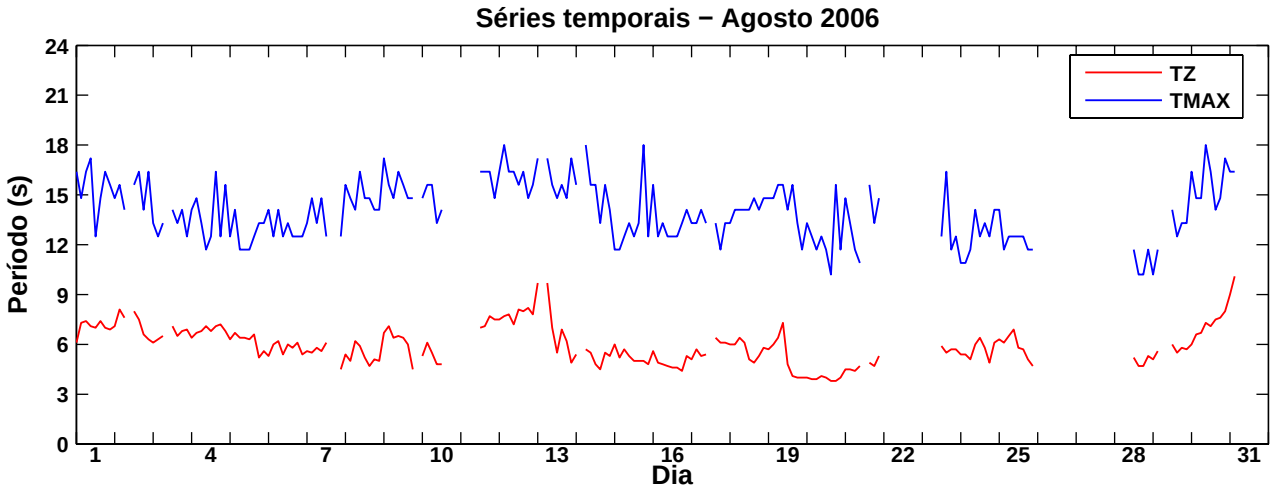
Gráficos temporais de HS, HMAX, TZ, TMAX, THS e THMAX

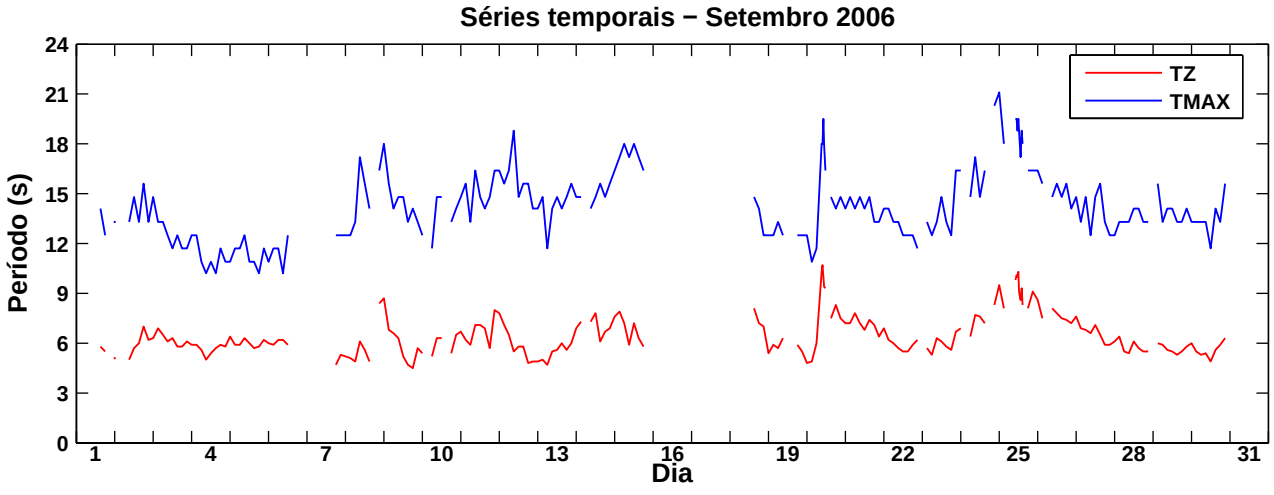

SMIGUEL
Séries temporais − Julho 2006
HS
HMAX
Alturas (m)
Dia

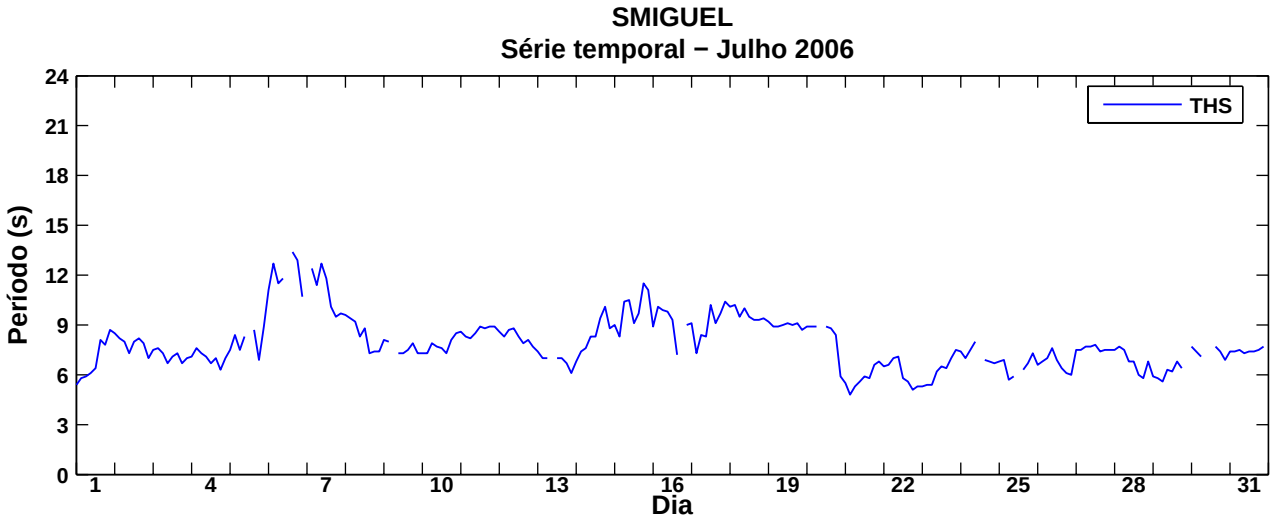

Séries temporais − Agosto 2006
HS
HMAX
Alturas (m)
Dia

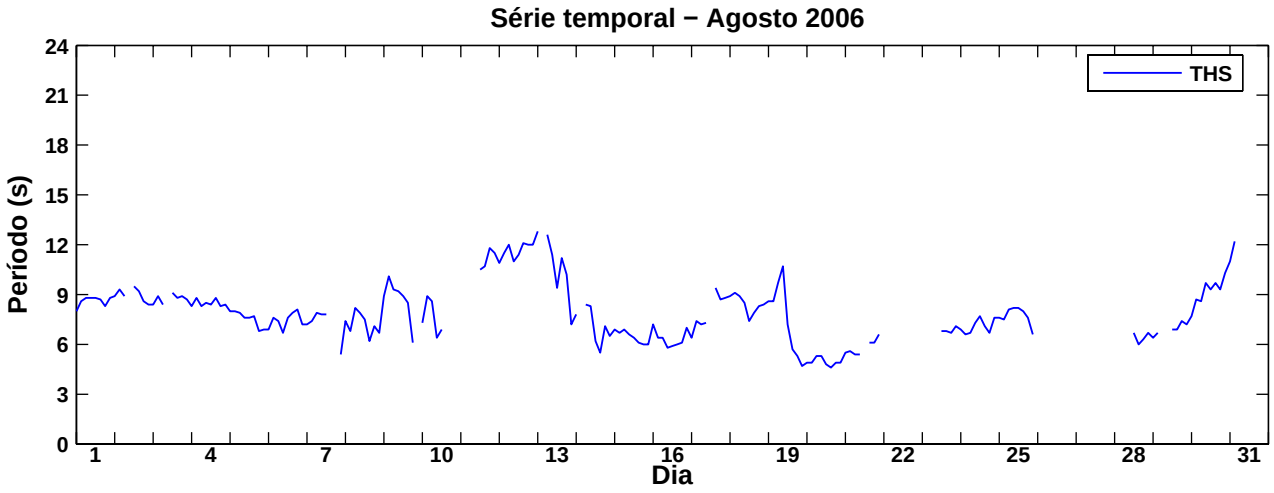

Séries temporais − Setembro 2006
HS
HMAX
Alturas (m)
Dia

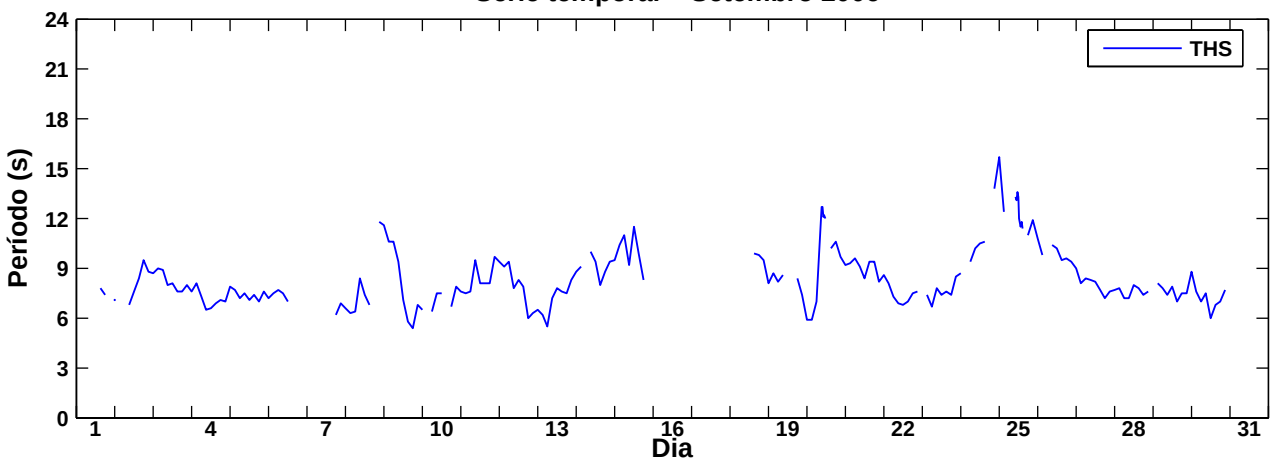

SMIGUEL
Séries temporais − Julho 2006
Período (s)
Dia
TZ
TMAX

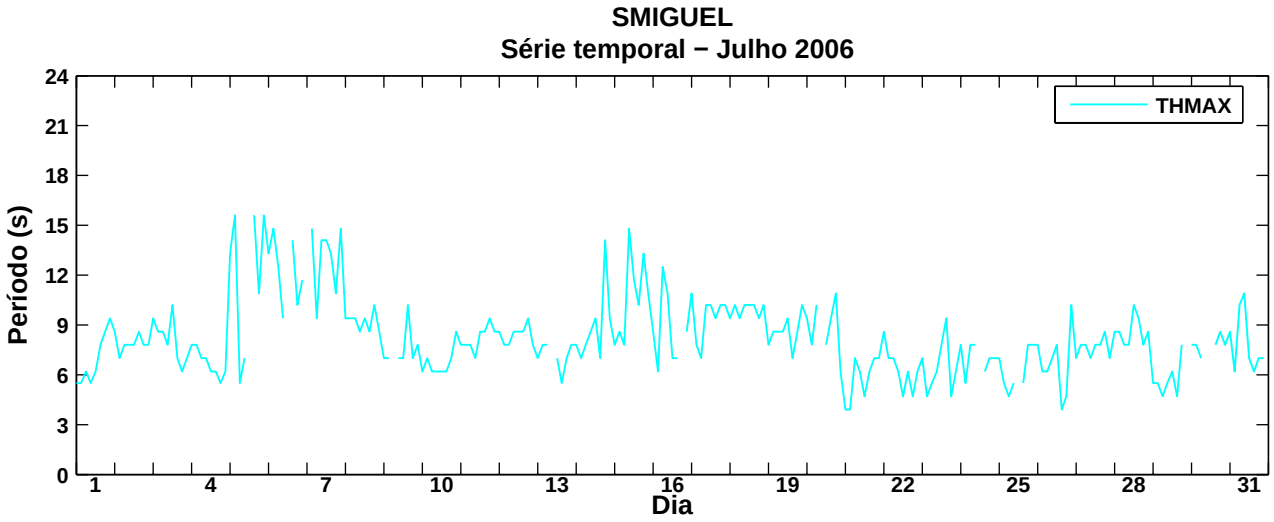

Séries temporais − Agosto 2006
Período (s)
Dia
TZ
TMAX

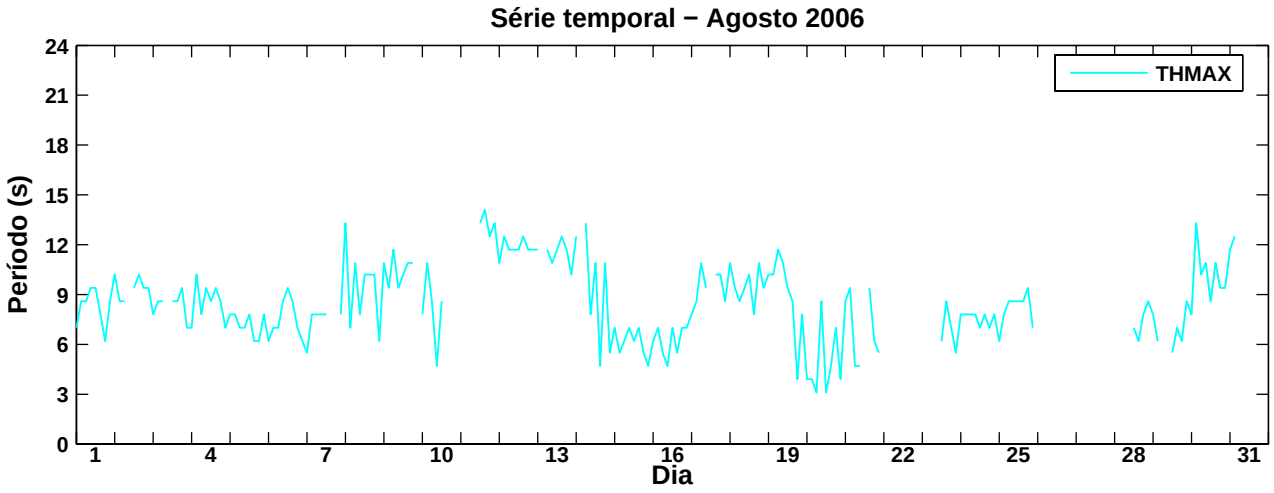

Séries temporais − Setembro 2006
Período (s)
Dia
TZ
TMAX

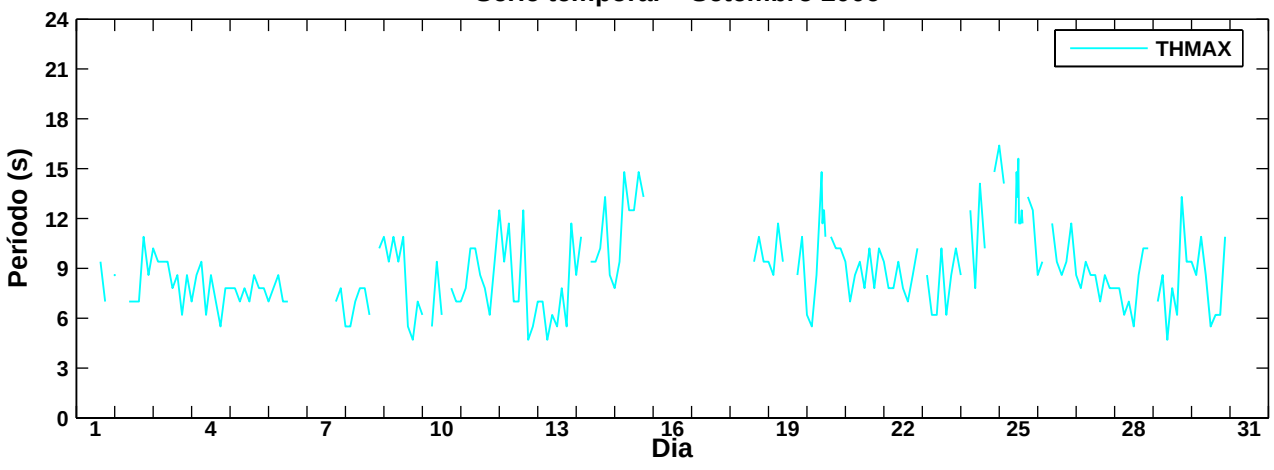

SMIGUEL
Série temporal − Julho 2006
THS
Período (s)
Dia


Série temporal − Agosto 2006
THS
Período (s)
Dia


Série temporal − Setembro 2006
THS
Período (s)
Dia


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


Série temporal − Agosto 2006
THMAX
Período (s)
Dia


Série temporal − Setembro 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	9	24	6	6	11		1	3	5	3				71	30.1	9.0
1.0- 1.5		3	2	6	11	47	22	11	12	2	1	1	3					121	51.3	8.1
1.5- 2.0			6	3	3	15	2	4	3									36	15.3	7.2
2.0- 2.5				3	3	1	1											8	3.4	6.3
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		3	9	14	26	87	31	21	26	2	2	4	8	3				236	100	
%		1.3	3.8	5.9	11.0	36.9	13.1	8.9	11.0	.8	.8	1.7	3.4	1.3				100		
MED		1.1	1.5	1.5	1.3	1.2	1.2	1.2	1.1	1.1	.9	.9	.9	.7						

THMAX

MED 8.2 MIN 3.9 MAX 15.6

DES.PAD 2.3 ASSIM 1.07 CURT 4.45

HMAX

MED 1.21 MIN .58 MAX 2.48

DES.PAD .36 ASSIM .99 CURT 3.88

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	1	2	3	13	7	7	9	4	1	2	1					53	27.6	8.8
1.0- 1.5		3	4	1	9	31	19	8	16	7	4	3						105	54.7	8.6
1.5- 2.0			2	3	1	4	3	6	4									23	12.0	8.1
2.0- 2.5				2	1	2				1								6	3.1	7.2
2.5- 3.0				1	1	1												3	1.6	6.2
3.0- 3.5						1					1							2	1.0	9.8
3.5- 4.0																				
4.0- 4.5																				
4.5- 5.0																				
5.0- 5.5																				
5.5- 6.0																				
6.0- 6.5																				
6.5- 7.0																				
7.0- 7.5																				
7.5- 8.0																				
8.0- 8.5																				
8.5- 9.0																				
9.0- 9.5																				
9.5-10.0																				
10.0-10.5																				
10.5-11.0																				
11.0-11.5																				
11.5-12.0																				
12.0-12.5																				
12.5-13.0																				
13.0-13.5																				
13.5-14.0																				
14.0-14.5																				
14.5-15.0																				
>15.0																				
SOMA		6	7	9	15	52	29	21	29	12	6	5	1					192	100	
%		3.1	3.6	4.7	7.8	27.1	15.1	10.9	15.1	6.3	3.1	2.6	.5					100		
MED		1.0	1.4	1.7	1.3	1.2	1.2	1.3	1.1	1.1	1.5	1.1	.9							

THMAX

MED 8.5 MIN 3.1 MAX 14.1

DES.PAD 2.3 ASSIM .08 CURT 2.62

HMAX

MED 1.24 MIN .54 MAX 3.26

DES.PAD .44 ASSIM 1.87 CURT 8.15

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	1	3	1		1		1							8	4.1	8.3
1.0- 1.5				5	1	14	3	6	5	2	1	1	1					39	19.8	8.5
1.5- 2.0			3	1	2	10	8	6	7	1	2		1					41	20.8	8.7
2.0- 2.5			1	1	7	6	9	7	6		1	2	1					41	20.8	8.7
2.5- 3.0				3	4	10	2	2	2									23	11.7	7.5
3.0- 3.5						6	2	1	1				1					11	5.6	8.9
3.5- 4.0						2				1								3	1.5	9.1
4.0- 4.5						1	2	4	1									8	4.1	9.0
4.5- 5.0									2				1					3	1.5	11.7
5.0- 5.5							1	1		1								3	1.5	9.9
5.5- 6.0																				
6.0- 6.5							1			1		1			1			4	2.0	12.5
6.5- 7.0											1							1	.5	12.5
7.0- 7.5											1							1	.5	12.5
7.5- 8.0										1								1	.5	11.7
8.0- 8.5											2	1						3	1.5	12.8
8.5- 9.0																				
9.0- 9.5									1	1								2	1.0	11.3
9.5-10.0													1					1	.5	14.8
10.0-10.5														1				1	.5	15.6
10.5-11.0													1					1	.5	14.8
11.0-11.5										1								1	.5	11.7
11.5-12.0										1								1	.5	11.7
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	11	15	52	29	27	26	10	9	5	7	1	1			197	100	
%			2.0	5.6	7.6	26.4	14.7	13.7	13.2	5.1	4.6	2.5	3.6	.5	.5			100		
MED			1.8	1.8	2.2	2.1	2.5	2.4	2.5	5.9	4.3	4.0	4.7	10.3	6.3					

THMAX

MED 9.0 MIN 4.7 MAX 16.4

DES.PAD 2.4 ASSIM .66 CURT 3.12

HMAX

MED 2.72 MIN .83 MAX 11.64

DES.PAD 2.05 ASSIM 2.34 CURT 8.57

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	9	32	16	15	2	3	6	8	3					95	40.3	9.0
1.0- 1.5			1	8	17	27	25	16	8	1	1		2					106	44.9	8.1
1.5- 2.0				7	6	6	4	4	3									30	12.7	7.4
2.0- 2.5				2	2		1											5	2.1	6.3
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	18	34	65	46	35	13	4	7	8	5					236	100	
%			.4	7.6	14.4	27.5	19.5	14.8	5.5	1.7	3.0	3.4	2.1					100		
MED			1.1	1.5	1.3	1.1	1.1	1.2	1.2	.9	.9	.8	.9							

TH100

MED 8.3 MIN 4.9 MAX 14.8

DES.PAD 2.1 ASSIM 1.11 CURT 4.10

H100

MED 1.14 MIN .56 MAX 2.27

DES.PAD .33 ASSIM .88 CURT 3.39

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	1	3	7	24	10	6	7	3	5	4						71	37.0	8.6
1.0- 1.5			2	4	11	15	24	19	8	5	10	1						99	51.6	8.8
1.5- 2.0				3	2	3	2	2	2									14	7.3	7.8
2.0- 2.5					4				1									5	2.6	7.3
2.5- 3.0					1													1	.5	6.2
3.0- 3.5						1					1							2	1.0	9.8
3.5- 4.0																				
4.0- 4.5																				
4.5- 5.0																				
5.0- 5.5																				
5.5- 6.0																				
6.0- 6.5																				
6.5- 7.0																				
7.0- 7.5																				
7.5- 8.0																				
8.0- 8.5																				
8.5- 9.0																				
9.0- 9.5																				
9.5-10.0																				
10.0-10.5																				
10.5-11.0																				
11.0-11.5																				
11.5-12.0																				
12.0-12.5																				
12.5-13.0																				
13.0-13.5																				
13.5-14.0																				
14.0-14.5																				
14.5-15.0																				
>15.0																				
SOMA		1	3	10	25	43	36	27	18	8	16	5						192	100	
%		.5	1.6	5.2	13.0	22.4	18.8	14.1	9.4	4.2	8.3	2.6						100		
MED		.9	1.1	1.3	1.4	1.1	1.1	1.1	1.1	1.0	1.1	.9								

TH100

MED 8.6 MIN 3.7 MAX 13.8

DES.PAD 2.1 ASSIM .42 CURT 2.51

H100

MED 1.15 MIN .52 MAX 3.19

DES.PAD .40 ASSIM 2.13 CURT 9.88

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	3	1	1	4			1							11	5.6	8.3
1.0- 1.5				3	3	11	15	3	4	4		1		1				45	22.8	8.7
1.5- 2.0				1	2	13	9	11	5	1	1	1	1					45	22.8	8.9
2.0- 2.5					6	6	8	9	1			1	1					32	16.2	8.6
2.5- 3.0				1	6	6	8	2						1				24	12.2	7.9
3.0- 3.5					1	3	2	2										8	4.1	8.2
3.5- 4.0						1		1										2	1.0	8.6
4.0- 4.5							2	4	1				1					8	4.1	9.9
4.5- 5.0								1	1									2	1.0	10.1
5.0- 5.5							1	1	1									3	1.5	9.6
5.5- 6.0								1	1							1		3	1.5	12.5
6.0- 6.5											2							2	1.0	12.7
6.5- 7.0																				
7.0- 7.5											1	1						2	1.0	12.7
7.5- 8.0										2								2	1.0	11.7
8.0- 8.5											2							2	1.0	12.5
8.5- 9.0											1							1	.5	12.5
9.0- 9.5											1		1					2	1.0	13.9
9.5-10.0																				
10.0-10.5													1					1	.5	14.5
10.5-11.0												1						1	.5	13.3
11.0-11.5										1								1	.5	11.7
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				6	21	41	46	39	14	8	9	5	5	2		1		197	100	
%				3.0	10.7	20.8	23.4	19.8	7.1	4.1	4.6	2.5	2.5	1.0		.5		100		
MED				1.5	2.0	1.9	2.1	2.4	2.5	4.1	6.3	4.6	5.4	2.1		5.8				

TH100

MED 9.0 MIN 5.1 MAX 17.2

DES.PAD 2.2 ASSIM .99 CURT 3.97

H100

MED 2.57 MIN .81 MAX 11.13

DES.PAD 1.95 ASSIM 2.32 CURT 8.42

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						1	1	1										3	1.3	8.4
.5- 1.0				4	16	55	38	18	11	5	7	7	1					162	68.6	8.6
1.0- 1.5				8	15	14	12	11	3									63	26.7	7.6
1.5- 2.0				3	1	2	2											8	3.4	6.9
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				15	32	72	53	30	14	5	7	7	1					236	100	
%				6.4	13.6	30.5	22.5	12.7	5.9	2.1	3.0	3.0	.4					100		
MED				1.2	1.0	.9	.9	.9	.9	.8	.6	.7	.6							

TH10

MED 8.3 MIN 5.2 MAX 14.0

DES.PAD 1.8 ASSIM 1.06 CURT 4.17

H10

MED .90 MIN .46 MAX 1.78

DES.PAD .26 ASSIM .94 CURT 3.51

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					1	4												5	2.6	7.4
.5- 1.0				13	12	31	27	20	7	8	12	2						132	68.8	8.6
1.0- 1.5				3	5	3	22	10	2									45	23.4	8.3
1.5- 2.0					7					1								8	4.2	7.2
2.0- 2.5											1							1	.5	12.4
2.5- 3.0						1												1	.5	7.0
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				16	25	39	49	30	9	9	13	2						192	100	
%				8.3	13.0	20.3	25.5	15.6	4.7	4.7	6.8	1.0						100		
MED				.9	1.1	.8	1.0	.9	.8	.8	.9	.8								

TH10

MED 8.4 MIN 5.0 MAX 13.2

DES.PAD 1.9 ASSIM .63 CURT 2.93

H10

MED .90 MIN .44 MAX 2.51

DES.PAD .30 ASSIM 2.05 CURT 9.70

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					3	7	9	3	5	4								31	15.7	8.8
1.0- 1.5				2	2	19	19	13	6	4	1	1						67	34.0	8.7
1.5- 2.0					5	18	7	5	2	1	1							39	19.8	8.1
2.0- 2.5				1	4	10	4	2					1					22	11.2	8.0
2.5- 3.0						3	2	3	1									9	4.6	8.7
3.0- 3.5								5	1									6	3.0	9.7
3.5- 4.0						1			3	1			1					6	3.0	10.8
4.0- 4.5									1							1		2	1.0	13.6
4.5- 5.0									1		1							2	1.0	11.6
5.0- 5.5										1								1	.5	11.5
5.5- 6.0											3							3	1.5	12.1
6.0- 6.5											2							2	1.0	12.7
6.5- 7.0											1							1	.5	12.1
7.0- 7.5												3						3	1.5	13.4
7.5- 8.0												1	1					2	1.0	13.8
8.0- 8.5											1							1	.5	12.7
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	14	58	41	31	20	11	10	5	3			1		197	100	
%				1.5	7.1	29.4	20.8	15.7	10.2	5.6	5.1	2.5	1.5			.5		100		
MED				1.6	1.6	1.7	1.4	1.8	2.1	1.7	5.3	6.1	4.4			4.5				

TH10

MED 9.0 MIN 5.3 MAX 17.1

DES.PAD 2.0 ASSIM 1.07 CURT 4.25

H10

MED 2.02 MIN .65 MAX 8.32

DES.PAD 1.50 ASSIM 2.25 CURT 7.92

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL JUL 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	6	4			3	1							16	6.8	8.7
.5- 1.0			1	15	30	67	38	25	8	4	3	1						192	81.4	7.9
1.0- 1.5				7	7	4	6	1	3									28	11.9	7.3
1.5- 2.0																				
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	22	39	77	48	26	11	7	4	1						236	100	
%			.4	9.3	16.5	32.6	20.3	11.0	4.7	3.0	1.7	.4						100		
MED			.8	.9	.8	.7	.7	.7	.8	.5	.5	.6								

THS

MED 7.9 MIN 4.8 MAX 13.4

DES.PAD 1.6 ASSIM .86 CURT 4.00

HS

MED .72 MIN .37 MAX 1.41

DES.PAD .21 ASSIM .91 CURT 3.41

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	10	3	1	3	2								24	12.5	8.2
.5- 1.0			7	11	29	30	49	13	3	5	6							153	79.7	7.9
1.0- 1.5				1	9	1			1	1								13	6.8	7.0
1.5- 2.0					1						1							2	1.0	9.6
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																				
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	12	44	41	52	14	7	8	7							192	100	
%			3.6	6.3	22.9	21.4	27.1	7.3	3.6	4.2	3.6							100		
MED			.6	.7	.8	.6	.7	.7	.6	.7	.8									

THS

MED 7.9 MIN 4.6 MAX 12.8

DES.PAD 1.7 ASSIM .60 CURT 3.22

HS

MED .72 MIN .35 MAX 1.92

DES.PAD .24 ASSIM 1.85 CURT 8.24

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL SET 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					11	22	10	9	4	3								59	29.9	8.1
1.0- 1.5				4	4	26	20	9	3	1								67	34.0	8.1
1.5- 2.0				1	8	17	5	1				1						33	16.8	7.5
2.0- 2.5						3	1	7										11	5.6	8.8
2.5- 3.0								3	3		1							7	3.6	10.2
3.0- 3.5						1			1	1				1				4	2.0	11.0
3.5- 4.0								1	1	1								3	1.5	10.8
4.0- 4.5										1								1	.5	11.4
4.5- 5.0										2	2							4	2.0	11.9
5.0- 5.5											1							1	.5	12.0
5.5- 6.0											1	4						5	2.5	13.1
6.0- 6.5											1							1	.5	12.7
6.5- 7.0											1							1	.5	12.7
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	23	69	36	30	12	9	7	5		1				197	100	
%				2.5	11.7	35.0	18.3	15.2	6.1	4.6	3.6	2.5		.5				100		
MED				1.3	1.1	1.3	1.2	1.5	1.8	2.6	5.1	4.9		3.2						

THS

MED 8.5 MIN 5.4 MAX 15.7

DES.PAD 1.8 ASSIM 1.15 CURT 4.24

HS

MED 1.62 MIN .50 MAX 6.79

DES.PAD 1.20 ASSIM 2.26 CURT 7.97

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			1	6	5	2	2											16	6.8	6.3
.5- 1.0			27	60	66	34	4	1										192	81.4	6.1
1.0- 1.5			5	11	7	2	3											28	11.9	6.0
1.5- 2.0																				
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			33	77	78	38	9	1										236	100	
%			14.0	32.6	33.1	16.1	3.8	.4										100		
MED			.8	.7	.7	.7	.7	.6												

TZ

MED 6.1 MIN 4.0 MAX 9.1

DES.PAD 1.0 ASSIM .34 CURT 2.75

HS

MED .72 MIN .37 MAX 1.41

DES.PAD .21 ASSIM .91 CURT 3.41

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			3	9	7	4	1											24	12.5	6.0
.5- 1.0		4	28	42	48	25	4	2										153	79.7	6.0
1.0- 1.5			3	8			1	1										13	6.8	5.6
1.5- 2.0					1				1									2	1.0	8.1
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	34	59	56	29	6	3	1									192	100	
%		2.1	17.7	30.7	29.2	15.1	3.1	1.6	.5									100		
MED		.6	.7	.7	.7	.7	.7	.9	1.8											

TZ

MED 6.0 MIN 3.8 MAX 10.1

DES.PAD 1.2 ASSIM .60 CURT 3.64

HS

MED .72 MIN .35 MAX 1.92

DES.PAD .24 ASSIM 1.85 CURT 8.24

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL SET 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			6	24	18	8	3											59	29.9	6.1
1.0- 1.5			4	30	22	10	1											67	34.0	6.1
1.5- 2.0			2	18	11	1	1											33	16.8	6.0
2.0- 2.5					4	7												11	5.6	7.0
2.5- 3.0						4	3											7	3.6	7.8
3.0- 3.5					1	1	1	1										4	2.0	7.8
3.5- 4.0						1	1	1										3	1.5	8.4
4.0- 4.5							1											1	.5	8.3
4.5- 5.0							1	3										4	2.0	9.2
5.0- 5.5								1										1	.5	9.1
5.5- 6.0								1	4									5	2.5	10.0
6.0- 6.5									1									1	.5	10.3
6.5- 7.0									1									1	.5	10.7
7.0- 7.5																				
7.5- 8.0																				
8.0- 8.5																				
8.5- 9.0																				
9.0- 9.5																				
9.5-10.0																				
10.0-10.5																				
10.5-11.0																				
11.0-11.5																				
11.5-12.0																				
12.0-12.5																				
12.5-13.0																				
13.0-13.5																				
13.5-14.0																				
14.0-14.5																				
14.5-15.0																				
>15.0																				
SOMA			12	72	56	32	12	7	6									197	100	
%			6.1	36.5	28.4	16.2	6.1	3.6	3.0									100		
MED			1.0	1.2	1.3	1.6	2.4	4.6	6.0											

TZ

MED 6.5 MIN 4.5 MAX 10.7

DES.PAD 1.3 ASSIM 1.16 CURT 4.08

HS

MED 1.62 MIN .50 MAX 6.79

DES.PAD 1.20 ASSIM 2.26 CURT 7.97

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL JUL 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	2	7	13	18	7	11	9	3	71	30.1	14.9
1.0- 1.5									10	20	22	20	33	8	5	2	1	121	51.3	13.4
1.5- 2.0								1	13	2	13	1	5	1				36	15.3	12.1
2.0- 2.5									5	1		2						8	3.4	11.3
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	29	25	42	36	56	16	16	11	4	236	100	
%								.4	12.3	10.6	17.8	15.3	23.7	6.8	6.8	4.7	1.7	100		
MED								1.8	1.6	1.3	1.3	1.2	1.1	1.1	.9	.8	.9			

TMAX

MED 13.6 MIN 9.4 MAX 18.8

DES.PAD 1.9 ASSIM .31 CURT 2.51

HMAX

MED 1.21 MIN .58 MAX 2.48

DES.PAD .36 ASSIM .99 CURT 3.88

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL AGO 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									3	4	6	6	18	8	8			53	27.6	14.1
1.0- 1.5									4	11	18	17	26	13	9	4	3	105	54.7	14.0
1.5- 2.0										3	5	3	7	2	1	2		23	12.0	14.0
2.0- 2.5										1	2	1			1		1	6	3.1	14.1
2.5- 3.0											1	1	1					3	1.6	13.3
3.0- 3.5										1					1			2	1.0	14.0
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									7	20	32	28	52	23	20	6	4	192	100	
%									3.6	10.4	16.7	14.6	27.1	12.0	10.4	3.1	2.1	100		
MED									1.1	1.3	1.4	1.2	1.2	1.1	1.3	1.3	1.4			

TMAX

MED 14.0 MIN 10.2 MAX 18.0

DES.PAD 1.8 ASSIM .11 CURT 2.31

HMAX

MED 1.24 MIN .54 MAX 3.26

DES.PAD .44 ASSIM 1.87 CURT 8.15

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL SET 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											2	1	1	1	2	1		8	4.1	14.8
1.0- 1.5											3	4	18	5	4	2	3	39	19.8	15.0
1.5- 2.0										1	6	11	14	6	2	1		41	20.8	14.2
2.0- 2.5									4	5	11	10	6	1	2	1	1	41	20.8	13.2
2.5- 3.0									6	5	3	6	3					23	11.7	12.3
3.0- 3.5									2	1	1	2	4				1	11	5.6	13.7
3.5- 4.0										1	1		1					3	1.5	12.8
4.0- 4.5													6	2				8	4.1	14.8
4.5- 5.0													2				1	3	1.5	15.6
5.0- 5.5										1			1	1				3	1.5	14.0
5.5- 6.0																				
6.0- 6.5															2		2	4	2.0	18.0
6.5- 7.0															1			1	.5	16.4
7.0- 7.5																	1	1	.5	18.0
7.5- 8.0																1		1	.5	17.2
8.0- 8.5																	3	3	1.5	19.0
8.5- 9.0																				
9.0- 9.5															1		1	2	1.0	17.6
9.5-10.0																	1	1	.5	18.0
10.0-10.5																	1	1	.5	19.5
10.5-11.0																	1	1	.5	19.5
11.0-11.5																	1	1	.5	19.5
11.5-12.0																	1	1	.5	18.0
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	14	27	34	56	16	14	6	18	197	100	
%									6.1	7.1	13.7	17.3	28.4	8.1	7.1	3.0	9.1	100		
MED									2.8	2.8	2.1	2.1	2.3	2.1	3.0	2.5	6.7			

TMAX

MED 14.3 MIN 10.2 MAX 21.1

DES.PAD 2.1 ASSIM .61 CURT 3.21

HMAX

MED 2.72 MIN .83 MAX 11.64

DES.PAD 2.05 ASSIM 2.34 CURT 8.57

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
01	00-00	9	1.49	4.5	6.2	1.605	255	30	251	212	3.0
01	03-00	9	1.41	4.8	6.2	1.629	257	42	233	194	0.7
01	06-00	9	1.47	4.9	6.2	2.121	260	37	242	216	1.5
01	09-00	9	1.29	4.7	6.2	1.187	259	37	276	243	1.4
01	12-00	9	1.30	5.1	6.2	1.097	259	27	282	265	4.5
01	15-00	9	1.26	5.4	10.5	1.844	288	29	285	267	10.4
01	18-00	9	1.31	6.1	10.0	1.815	280	30	285	254	4.9
01	21-00	9	1.23	6.7	10.0	2.552	292	21	289	258	18.7
02	00-00	9	1.44	7.0	10.0	3.092	293	18	293	251	14.7
02	03-00	9	1.36	6.3	9.1	2.354	287	18	291	246	16.5
02	06-00	9	1.18	6.1	9.1	1.416	285	25	289	225	9.9
02	09-00	9	1.00	4.8	9.1	0.801	282	28	289	245	5.6
02	12-00	9	0.96	5.3	9.1	0.963	281	25	286	234	8.9
02	15-00	9	0.95	5.2	9.1	1.110	283	26	269	244	6.6
02	18-00	9	0.83	5.5	9.1	0.563	282	33	262	225	4.7
02	21-00	9	0.84	4.8	9.1	0.450	280	33	275	218	5.0
03	00-00	9	0.87	4.9	9.1	0.617	289	28	284	234	6.9
03	03-00	9	0.80	5.2	9.1	0.511	290	30	289	216	6.6
03	06-00	9	0.69	5.2	9.1	0.324	269	34	284	210	3.5
03	09-00	9	0.69	5.0	8.0	0.286	280	23	280	213	9.1
03	12-00	9	0.64	5.2	8.0	0.282	288	27	289	217	7.3
03	15-00	8	0.71	5.3	8.0	0.482	288	25	290	216	11.1
03	18-00	9	0.71	4.9	8.0	0.326	287	21	294	215	10.1
03	21-00	9	0.60	5.1	8.0	0.311	292	19	298	204	16.1
04	00-00	9	0.48	4.8	8.0	0.126	282	31	302	209	3.8
04	03-00	9	0.53	5.8	8.0	0.290	296	24	298	216	9.2
04	06-00	9	0.54	5.3	8.0	0.257	291	24	297	201	7.7
04	09-00	9	0.56	5.4	8.0	0.283	298	24	299	199	7.4
04	12-00	9	0.59	4.9	7.0	0.288	294	22	298	202	9.9
04	15-00	9	0.56	5.1	7.0	0.205	294	30	288	200	7.0
04	18-00	9	0.53	4.3	7.0	0.153	296	28	318	196	9.0
04	21-00	9	0.44	5.2	6.2	0.092	299	32	331	185	7.0
05	00-00	9	0.42	5.4	14.3	0.101	183	32	166	196	4.7
05	03-00	9	0.43	5.8	16.7	0.133	186	35	154	198	11.9
05	06-00	9	0.49	5.6	15.4	0.158	185	29	266	198	12.2
05	09-00	9	0.50	6.0	16.7	0.217	187	34	274	201	12.6
05	15-00	9	0.51	5.0	15.4	0.489	186	32	269	206	8.2
05	18-00	9	0.47	3.8	15.4	0.297	188	34	237	208	4.8
05	21-00	9	0.47	5.3	15.4	0.348	172	37	221	196	7.1
06	00-00	8	0.49	7.2	14.3	0.592	189	28	139	198	11.5
06	03-00	9	0.49	7.5	15.4	0.564	189	26	168	204	9.8
06	06-00	9	0.49	7.0	14.3	0.457	188	26	214	205	8.1
06	09-00	8	0.47	7.3	15.4	0.428	183	31	298	201	5.3
06	15-00	9	0.60	7.3	14.3	1.081	185	26	272	203	9.3
06	18-00	9	0.60	6.5	14.3	0.771	188	26	253	199	7.7

DIA	HORA	NG	HM0 (m)	T02 (s)	TP (s)	SMAX (m2.s)	THTP1 (graus)	SPRTP1 (graus)	THHF1 (graus)	THLF1 (graus)	N
06	21-00	9	0.61	5.2	14.3	0.865	188	27	275	206	7.9
07	03-00	9	0.63	7.6	14.3	1.106	193	26	291	206	9.8
07	06-00	9	0.58	7.0	13.3	0.644	180	24	293	218	12.6
07	09-00	8	0.60	8.4	14.3	0.911	183	26	311	217	6.9
07	12-00	9	0.56	6.7	14.3	0.673	181	26	287	219	9.4
07	15-00	9	0.63	5.1	13.3	0.865	191	24	289	223	9.6
07	18-00	9	0.65	5.4	13.3	0.675	190	24	294	228	10.0
07	21-00	9	0.60	5.0	13.3	0.649	183	24	309	232	14.1
08	00-00	9	0.55	7.0	13.3	0.274	180	36	284	217	5.2
08	03-00	9	0.60	6.8	13.3	0.374	187	24	289	223	12.1
08	06-00	9	0.58	6.6	9.1	0.370	290	28	287	222	6.4
08	09-00	9	0.57	6.1	8.0	0.307	283	26	301	214	6.7
08	12-00	9	0.63	5.1	12.5	0.395	181	30	281	208	6.0
08	15-00	9	0.68	4.5	8.0	0.343	288	23	290	210	10.8
08	18-00	9	0.70	4.6	13.3	0.483	192	34	287	218	3.3
08	21-00	9	0.65	4.4	8.0	0.381	295	26	290	217	9.8
09	00-00	9	0.55	5.3	13.3	0.223	179	31	277	208	7.2
09	03-00	8	0.63	5.6	13.3	0.309	180	24	285	212	14.5
09	09-00	9	0.59	5.6	8.0	0.242	287	31	279	206	5.2
09	12-00	9	0.58	5.5	8.0	0.208	287	37	291	193	4.9
09	15-00	8	0.56	5.6	13.3	0.230	178	34	289	191	4.0
09	18-00	9	0.59	5.5	13.3	0.300	179	23	276	197	12.7
09	21-00	9	0.58	5.5	7.0	0.218	289	37	274	210	7.6
10	00-00	9	0.54	5.9	6.2	0.182	278	50	274	203	6.0
10	03-00	9	0.58	5.9	13.3	0.320	182	24	279	199	11.7
10	06-00	9	0.55	5.7	13.3	0.268	183	23	277	209	17.1
10	09-00	9	0.65	6.4	7.0	0.323	284	31	284	232	6.1
10	12-00	9	0.56	6.1	13.3	0.245	172	31	297	208	7.0
10	15-00	9	0.60	5.2	7.0	0.232	276	39	284	218	3.4
10	18-00	9	0.64	5.7	9.1	0.354	301	24	269	250	14.1
10	21-00	9	0.86	7.1	10.0	0.698	302	26	278	268	13.6
11	00-00	9	0.81	6.9	9.1	0.722	284	20	277	257	15.1
11	03-00	9	0.81	6.7	8.0	0.602	279	25	250	263	12.3
11	06-00	9	0.84	6.6	9.1	0.621	290	22	271	267	10.5
11	09-00	9	0.84	7.0	8.0	0.564	276	29	278	263	5.9
11	12-00	8	0.84	7.0	10.0	0.740	275	26	80	260	6.6
11	15-00	9	0.83	6.9	9.1	0.806	280	23	212	259	8.5
11	18-00	9	0.94	6.7	10.0	1.010	281	23	208	259	13.4
11	21-00	9	0.92	7.1	9.1	0.977	286	24	214	259	8.1
12	00-00	9	0.83	6.8	9.1	0.750	284	28	150	253	6.4
12	03-00	9	0.76	6.5	10.5	0.532	281	30	324	256	6.7
12	06-00	9	0.67	6.1	9.1	0.384	288	38	196	248	2.7
12	09-00	9	0.82	6.9	10.0	1.073	283	30	170	255	4.2
12	12-00	9	0.78	6.7	9.1	0.819	280	23	149	245	10.2
12	15-00	9	0.69	5.7	8.0	0.369	283	35	112	244	6.6

DIA	HORA	NG	HM0 (m)	T02 (s)	TP (s)	SMAX (m2.s)	THTP1 (graus)	SPRTP1 (graus)	THHF1 (graus)	THLF1 (graus)	N
12	18-00	9	0.71	6.1	9.1	0.446	276	29	132	227	10.6
12	21-00	9	0.76	6.2	9.1	0.447	283	31	151	239	10.0
13	00-00	9	0.70	5.8	9.1	0.336	280	46	136	235	4.2
13	03-00	9	0.67	5.6	7.0	0.247	121	59	124	217	7.4
13	06-00	9	0.73	5.5	8.0	0.294	224	75	118	222	9.7
13	12-00	9	0.68	5.2	8.0	0.303	247	66	146	210	5.5
13	15-00	9	0.74	5.2	8.0	0.363	206	77	116	198	5.8
13	18-00	9	0.66	4.8	8.0	0.208	261	64	137	199	4.5
13	21-00	9	0.71	4.4	8.0	0.254	255	68	128	189	3.8
14	00-00	9	0.67	5.1	8.0	0.234	249	69	138	200	4.3
14	03-00	9	0.62	5.4	8.0	0.237	243	75	131	212	9.2
14	06-00	8	0.61	5.8	15.4	0.346	189	31	131	203	5.6
14	09-00	9	0.59	5.9	8.0	0.213	257	66	137	229	4.6
14	12-00	9	0.62	5.9	8.0	0.247	261	68	147	213	7.2
14	15-00	9	0.57	5.7	15.4	0.370	190	38	124	216	10.3
14	18-00	9	0.64	5.9	15.4	0.698	168	38	130	202	4.2
14	21-00	9	0.73	5.7	14.3	0.841	185	23	126	226	9.2
15	00-00	9	0.61	5.9	14.3	0.306	187	33	141	219	4.8
15	03-00	9	0.67	5.6	14.3	0.537	191	32	118	192	9.1
15	06-00	8	0.72	6.5	14.3	0.870	176	38	105	185	3.0
15	09-00	9	0.74	6.5	14.3	1.054	190	21	119	206	12.1
15	12-00	9	0.70	5.9	14.3	0.737	178	29	132	203	8.9
15	15-00	9	0.70	6.1	14.3	0.924	176	29	127	195	14.1
15	18-00	9	0.73	6.1	14.3	1.397	179	31	125	186	5.1
15	21-00	9	0.64	6.2	13.3	0.794	181	31	121	193	4.7
16	00-00	9	0.69	5.9	13.3	0.710	185	24	105	187	10.1
16	03-00	9	0.74	6.1	14.3	0.844	181	22	126	182	11.6
16	06-00	9	0.65	6.0	13.3	0.638	189	32	95	196	5.4
16	09-00	9	0.69	5.7	13.3	1.042	187	26	61	194	10.1
16	12-00	9	0.60	5.5	13.3	0.531	186	30	244	201	8.1
16	15-00	9	0.69	4.4	13.3	0.402	181	38	102	189	3.7
16	21-00	9	0.69	5.9	13.3	0.807	190	23	111	219	12.0
17	00-00	9	0.68	6.2	13.3	0.622	185	28	85	217	9.8
17	03-00	9	0.66	5.3	13.3	0.294	182	32	106	220	5.2
17	06-00	9	0.67	5.8	13.3	0.431	177	27	112	195	8.9
17	09-00	9	0.61	5.5	13.3	0.478	184	33	114	215	3.9
17	12-00	9	0.62	5.8	13.3	0.439	196	44	250	233	1.8
17	15-00	9	0.74	5.8	11.1	0.485	295	34	181	248	4.3
17	18-00	9	0.79	6.3	11.8	0.660	250	44	135	244	1.0
17	21-00	9	1.07	7.3	11.8	1.627	266	42	286	246	2.0
18	00-00	9	1.15	7.6	10.5	2.451	286	18	56	243	17.8
18	03-00	9	1.24	8.3	10.5	2.330	280	19	302	241	13.2
18	06-00	8	1.05	7.5	11.1	1.281	283	31	46	246	3.8
18	09-00	9	0.99	6.5	10.0	1.130	279	29	306	233	8.7
18	12-00	8	1.02	6.6	10.0	1.039	277	23	279	226	12.4

DIA	HORA	NG	HM0 (m)	T02 (s)	TP (s)	SMAX (m2.s)	THTP1 (graus)	SPRTP1 (graus)	THHF1 (graus)	THLF1 (graus)	N
18	15-00	9	0.96	5.7	10.0	1.021	270	27	263	218	5.9
18	18-00	9	0.88	6.1	9.1	0.893	276	25	273	235	7.2
18	21-00	9	1.01	6.5	10.0	1.164	286	25	281	224	6.0
19	00-00	9	0.93	6.4	10.5	0.958	273	35	284	232	4.2
19	03-00	9	0.93	6.3	9.1	0.898	270	25	285	227	5.7
19	06-00	9	0.88	7.1	10.0	0.882	271	30	300	217	4.6
19	09-00	9	0.87	6.2	10.0	0.717	271	28	291	220	6.2
19	12-00	9	0.89	6.3	9.1	0.669	277	26	294	221	6.7
19	15-00	9	0.83	6.3	9.1	0.783	270	25	295	212	9.5
19	18-00	9	0.77	6.7	10.5	0.563	195	40	303	199	3.2
19	21-00	9	0.70	6.4	10.0	0.425	237	46	279	201	0.3
20	00-00	9	0.72	6.2	9.1	0.377	265	35	295	210	2.9
20	03-00	9	0.70	6.3	12.5	0.529	177	26	286	203	7.4
20	06-00	9	0.64	6.6	9.1	0.442	264	43	78	202	2.1
20	12-00	9	0.60	6.0	8.0	0.267	272	31	309	194	5.7
20	15-00	9	0.67	5.4	12.5	0.366	177	26	275	199	7.9
20	18-00	9	0.63	4.9	12.5	0.412	174	24	200	195	13.1
20	21-00	9	0.66	3.8	8.0	0.180	268	41	237	199	2.2
21	00-00	9	0.78	3.8	12.5	0.433	176	34	266	193	3.0
21	03-00	9	0.87	3.7	11.8	0.299	188	34	262	211	3.9
21	06-00	9	0.91	4.1	4.9	0.330	288	29	254	204	6.5
21	09-00	9	1.03	4.4	5.5	0.486	292	24	249	201	10.2
21	12-00	9	1.17	4.5	4.9	0.618	267	27	260	217	4.3
21	15-00	9	1.26	4.6	7.0	0.878	297	20	265	212	13.0
21	18-00	9	1.18	4.9	8.0	0.937	291	23	246	217	14.4
21	21-00	9	1.14	5.1	8.0	0.869	290	23	239	214	8.8
22	00-00	9	0.98	4.7	8.0	0.472	291	28	259	229	5.8
22	03-00	9	1.14	5.0	8.0	0.810	291	21	262	236	11.2
22	06-00	9	1.06	4.9	8.0	0.891	288	21	248	231	10.9
22	09-00	9	0.92	4.7	7.0	0.524	284	27	225	211	8.5
22	12-00	9	0.95	4.2	7.0	0.441	287	25	237	213	8.9
22	15-00	9	0.93	4.1	5.5	0.270	281	26	242	202	6.5
22	18-00	9	1.02	4.0	4.0	0.382	223	38	236	223	1.3
22	21-00	9	1.06	4.2	4.9	0.487	232	33	209	208	2.9
23	00-00	9	1.01	4.2	4.5	0.462	224	37	222	222	1.7
23	03-00	9	1.14	4.2	5.5	0.538	279	32	234	204	3.4
23	06-00	9	1.15	4.4	4.9	0.782	236	33	245	217	2.7
23	09-00	9	1.13	4.8	5.5	0.814	224	34	244	209	1.9
23	12-00	9	1.12	5.2	8.0	0.807	282	25	239	204	6.7
23	15-00	9	1.04	5.0	9.1	0.626	290	26	251	221	6.9
23	18-00	9	1.21	5.3	8.0	1.262	284	17	255	233	17.8
23	21-00	9	1.34	5.6	8.0	1.881	275	20	250	226	7.5
24	00-00	9	1.17	5.7	8.0	1.179	282	21	250	221	8.6
24	03-00	9	0.97	5.2	8.0	0.612	283	19	260	221	11.6
24	06-00	9	1.01	5.2	9.1	1.027	285	22	259	231	11.7

DIA	HORA	NG	HM0 (m)	T02 (s)	TP (s)	SMAX (m2.s)	THTP1 (graus)	SPRTP1 (graus)	THHF1 (graus)	THLF1 (graus)	N
24	09-00	9	1.10	5.9	9.1	1.578	285	26	254	230	10.5
24	15-00	9	0.98	4.9	8.0	0.615	282	20	259	220	14.0
24	18-00	9	1.05	4.9	8.0	0.701	285	20	260	226	11.3
24	21-00	9	1.01	4.7	8.0	0.777	278	24	264	217	6.5
25	00-00	9	0.84	5.1	8.0	0.381	289	31	255	206	6.0
25	03-00	9	0.82	5.0	8.0	0.529	284	24	259	203	14.1
25	06-00	9	0.70	3.9	8.0	0.266	284	30	236	200	10.6
25	09-00	9	0.75	4.2	14.3	0.266	181	44	232	202	5.2
25	15-00	9	1.00	5.0	7.0	0.559	277	28	215	203	8.6
25	18-00	9	0.98	4.9	7.0	0.586	270	27	172	213	8.5
25	21-00	9	0.79	5.1	8.0	0.538	273	32	157	215	5.9
26	00-00	9	0.82	4.9	8.0	0.489	272	31	121	219	3.8
26	03-00	9	0.81	5.0	7.0	0.481	278	29	149	224	8.4
26	06-00	9	0.80	5.2	7.0	0.513	286	24	138	212	11.2
26	09-00	9	0.72	5.3	7.0	0.502	275	27	159	222	11.3
26	12-00	9	0.75	4.2	7.0	0.342	278	30	131	212	5.6
26	15-00	9	0.75	4.3	13.3	0.292	174	37	144	215	3.8
26	18-00	9	0.71	4.2	14.3	0.281	180	35	137	220	5.0
26	21-00	9	0.77	4.1	13.3	0.254	176	37	132	215	4.0
27	00-00	9	0.68	5.2	8.0	0.319	282	28	134	221	6.6
27	03-00	9	0.67	5.3	7.0	0.253	281	38	137	207	4.2
27	06-00	9	0.74	5.8	8.0	0.391	289	25	133	209	14.4
27	09-00	9	0.68	5.8	8.0	0.320	280	23	145	212	10.3
27	12-00	9	0.62	5.6	8.0	0.294	287	31	145	205	3.9
27	15-00	8	0.66	5.9	8.0	0.310	285	33	140	202	3.7
27	18-00	9	0.60	5.5	7.0	0.219	285	31	135	194	7.0
27	21-00	9	0.53	5.5	13.3	0.162	171	31	174	193	6.0
28	00-00	9	0.53	5.7	13.3	0.184	171	30	154	195	8.4
28	03-00	9	0.60	5.9	12.5	0.221	180	43	169	201	4.9
28	06-00	9	0.53	4.9	12.5	0.201	187	49	218	219	2.8
28	09-00	9	0.58	4.2	10.5	0.298	280	52	226	239	2.3
28	12-00	9	0.57	4.1	10.0	0.234	274	55	259	227	2.2
28	15-00	9	0.70	3.9	9.1	0.355	274	35	260	231	3.6
28	18-00	9	0.79	4.1	9.1	0.311	288	37	277	245	6.4
28	21-00	9	0.92	4.5	9.1	0.576	296	30	278	250	8.6
29	00-00	9	0.82	4.1	10.5	0.278	276	47	256	243	2.4
29	03-00	9	0.94	4.4	10.0	0.565	273	31	253	239	5.9
29	06-00	9	1.03	4.2	10.0	0.452	291	30	273	254	5.0
29	09-00	9	1.06	4.3	10.0	0.753	276	35	267	253	4.6
29	12-00	9	1.03	4.4	9.1	0.432	283	38	252	235	3.9
29	15-00	9	1.06	4.9	10.0	0.581	275	35	248	238	3.8
29	18-00	9	1.00	5.0	9.1	0.509	286	30	265	248	7.4
30	00-00	9	0.84	5.9	9.1	0.466	280	28	249	238	5.2
30	03-00	9	0.90	5.9	9.1	0.521	277	33	238	233	4.1
30	06-00	9	0.92	5.6	8.0	0.506	283	26	262	239	8.4

DIA	HORA	NG	HM0 (m)	T02 (s)	TP (s)	SMAX (m2.s)	THTP1 (graus)	SPRTP1 (graus)	THHF1 (graus)	THLF1 (graus)	N
30	15-00	9	0.76	5.7	8.0	0.410	288	34	231	215	4.2
30	18-00	8	0.73	5.2	8.0	0.381	275	35	246	226	3.4
30	21-00	9	0.75	4.6	8.0	0.500	287	29	261	232	6.4
31	00-00	9	0.80	5.1	8.0	0.546	284	27	263	236	8.4
31	03-00	9	0.77	5.2	8.0	0.350	284	33	255	214	3.3
31	06-00	9	0.72	4.9	8.0	0.273	271	36	261	209	3.8
31	09-00	9	0.72	4.6	12.5	0.245	196	40	271	226	1.8
31	12-00	9	0.68	5.1	8.0	0.245	278	27	260	224	7.8
31	15-00	8	0.69	5.5	7.0	0.239	272	34	245	213	4.4
31	18-00	9	0.75	5.6	12.5	0.331	179	38	272	212	1.6
31	21-00	9	0.79	5.2	8.0	0.279	285	35	290	224	4.6

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	0.79	5.6	9.1	0.377	291	31	283	232	9.4
01	03-00	9	0.91	6.9	9.1	0.730	282	24	278	221	8.1
01	06-00	9	0.99	6.8	8.0	0.837	288	23	285	224	10.6
01	09-00	8	0.92	6.6	9.1	0.724	281	27	279	224	10.3
01	12-00	9	0.90	6.7	9.1	0.868	280	26	281	221	10.8
01	15-00	9	0.88	7.1	9.1	0.737	275	28	296	210	4.9
01	18-00	9	0.88	6.6	8.0	0.617	285	31	300	211	4.5
01	21-00	9	0.83	6.5	8.0	0.559	279	29	296	214	8.3
02	00-00	9	0.70	6.7	9.1	0.431	265	29	280	211	4.0
02	03-00	8	0.74	7.5	14.3	0.716	171	25	284	218	7.8
02	06-00	9	0.76	7.0	9.1	0.482	273	34	321	215	3.0
02	12-00	9	0.88	6.9	9.1	1.103	278	19	297	227	14.6
02	15-00	9	0.97	6.6	9.1	1.514	278	21	184	227	10.1
02	18-00	9	1.02	6.2	9.1	1.288	279	28	205	220	4.1
02	21-00	9	0.82	5.8	9.1	0.543	280	31	214	220	3.9
03	00-00	9	0.85	5.4	9.1	0.525	271	30	214	223	4.7
03	03-00	9	0.86	6.1	9.1	0.988	278	20	199	227	11.1
03	06-00	9	1.02	6.5	9.1	1.236	274	21	193	221	18.5
03	12-00	9	0.94	6.3	9.1	0.953	275	20	198	220	15.5
03	15-00	9	0.89	5.8	9.1	0.890	276	24	157	219	10.9
03	18-00	9	0.93	6.2	9.1	0.904	273	28	168	218	4.6
03	21-00	9	0.94	6.1	9.1	0.678	274	31	204	220	4.4
04	00-00	9	0.92	5.6	9.1	0.858	277	21	202	224	17.7
04	03-00	9	1.07	6.2	9.1	1.576	276	20	190	230	27.4
04	06-00	9	1.05	6.1	8.0	1.106	269	23	171	217	10.0
04	09-00	9	0.90	6.3	9.1	0.764	271	25	182	223	10.2
04	12-00	9	0.88	6.5	9.1	0.739	268	24	195	216	15.8
04	15-00	9	1.01	6.4	9.1	1.311	265	21	188	233	17.0
04	18-00	8	1.04	6.4	8.0	1.012	271	24	153	216	12.9
04	21-00	9	0.96	6.4	8.0	0.716	269	34	138	212	6.2
05	00-00	9	1.00	5.8	8.0	0.845	266	24	173	216	9.2
05	03-00	9	0.99	6.2	8.0	0.985	274	27	161	215	15.1
05	06-00	9	0.92	6.1	8.0	0.948	259	23	164	214	12.9
05	09-00	9	0.88	5.8	8.0	0.685	262	29	158	208	9.2
05	12-00	9	0.84	5.9	8.0	0.904	263	26	150	203	14.7
05	15-00	9	0.81	6.0	8.0	0.589	267	27	162	205	8.6
05	18-00	9	0.79	4.8	8.0	0.335	258	40	140	197	3.1
05	21-00	9	0.80	5.3	7.0	0.535	265	37	133	194	6.1
06	00-00	9	0.76	5.1	8.0	0.442	278	38	141	197	8.1
06	03-00	9	0.75	5.5	8.0	0.457	263	34	159	215	10.4
06	06-00	9	0.68	5.6	7.0	0.295	262	45	147	218	9.2
06	09-00	9	0.75	5.1	7.0	0.323	264	51	128	226	9.0
06	12-00	9	0.73	5.1	10.0	0.277	275	40	140	223	5.6
06	15-00	9	0.75	5.1	9.1	0.401	272	32	136	226	11.3
06	18-00	9	0.83	5.2	9.1	0.546	279	42	133	226	5.3

DIA	HORA	NG	HM0 (m)	T02 (s)	TP (s)	SMAX (m2.s)	THTP1 (graus)	SPRTP1 (graus)	THHF1 (graus)	THLF1 (graus)	N
06	21-00	9	0.83	4.9	7.0	0.395	256	55	117	223	6.4
07	00-00	9	0.77	4.9	7.0	0.527	250	63	117	214	9.0
07	03-00	9	0.73	4.9	8.0	0.313	268	44	122	216	7.4
07	06-00	9	0.74	5.7	8.0	0.410	274	50	123	212	3.6
07	09-00	9	0.88	5.1	9.1	0.611	261	40	125	208	5.2
07	12-00	9	0.80	5.4	8.0	0.747	258	45	121	210	9.1
07	21-00	9	0.93	4.1	15.4	0.400	180	39	114	190	2.1
08	00-00	9	0.76	4.9	15.4	0.595	177	32	124	202	5.3
08	03-00	9	0.76	4.5	15.4	0.391	184	37	125	197	4.5
08	06-00	9	0.75	5.5	14.3	0.672	191	30	142	204	13.4
08	09-00	9	0.73	5.3	14.3	0.589	175	31	122	199	3.0
08	12-00	8	1.01	4.8	14.3	1.238	183	36	116	177	5.5
08	15-00	9	0.94	4.4	14.3	1.154	189	36	116	176	2.9
08	18-00	9	0.82	4.4	14.3	0.796	187	31	121	189	7.8
08	21-00	9	0.68	4.7	14.3	0.423	179	29	121	176	4.5
09	00-00	9	0.69	5.9	14.3	0.771	174	37	114	164	4.4
09	03-00	9	0.67	6.3	14.3	0.773	183	30	123	176	7.0
09	06-00	9	0.65	5.7	14.3	0.610	181	33	128	183	3.4
09	09-00	9	0.61	5.7	13.3	0.522	184	27	130	173	10.2
09	12-00	9	0.62	5.3	14.3	0.491	176	37	125	167	4.1
09	15-00	9	0.69	5.1	13.3	0.547	178	35	113	167	5.4
09	18-00	9	0.78	4.0	13.3	0.654	181	35	128	181	2.0
10	00-00	9	0.55	4.7	13.3	0.290	176	30	129	174	6.0
10	03-00	9	0.63	5.3	14.3	0.624	175	28	120	173	10.6
10	06-00	9	0.59	4.7	14.3	0.405	182	32	139	178	3.7
10	09-00	9	0.62	4.3	12.5	0.211	188	32	134	179	6.2
10	12-00	9	0.70	4.3	13.3	0.376	182	37	127	158	4.9
11	12-00	9	0.50	6.1	13.3	0.318	170	35	148	172	3.1
11	15-00	9	0.57	6.6	14.3	0.454	168	36	134	170	5.8
11	18-00	9	0.59	6.5	13.3	0.634	184	29	182	180	5.9
11	21-00	9	0.61	6.8	13.3	0.666	176	23	135	172	11.3
12	00-00	9	0.53	7.0	13.3	0.433	170	37	136	169	2.3
12	03-00	9	0.61	7.0	14.3	0.595	175	29	126	175	7.2
12	06-00	9	0.63	7.1	13.3	0.739	183	25	145	177	11.6
12	09-00	9	0.53	6.1	13.3	0.398	178	30	137	183	8.4
12	12-00	7	0.54	7.2	11.8	0.383	184	32	144	174	4.4
12	15-00	9	0.66	7.5	13.3	0.756	174	24	145	174	11.1
12	18-00	9	0.66	7.1	13.3	0.737	179	26	125	178	7.3
12	21-00	9	0.63	6.8	13.3	0.747	186	26	140	184	11.2
13	00-00	9	0.71	8.8	13.3	1.014	177	30	127	173	3.5
13	06-00	9	0.74	8.1	14.3	1.005	182	23	128	186	12.2
13	09-00	9	0.68	5.8	14.3	0.751	175	30	127	181	4.5
13	12-00	9	0.70	4.6	13.3	0.638	178	27	123	183	6.0
13	15-00	9	0.82	5.8	13.3	0.962	181	28	126	185	8.6
13	18-00	9	0.85	5.5	14.3	1.238	182	30	126	188	5.3

DIA	HORA	NG	HM0 (m)	T02 (s)	TP (s)	SMAX (m2.s)	THTP1 (graus)	SPRTP1 (graus)	THHF1 (graus)	THLF1 (graus)	N
13	21-00	9	0.78	4.2	13.3	0.674	184	32	135	185	3.8
14	00-00	9	0.74	5.2	13.3	0.651	175	30	124	178	2.9
14	06-00	9	0.83	5.2	13.3	0.833	176	28	127	175	10.9
14	09-00	9	0.90	4.9	14.3	0.792	181	32	149	190	6.7
14	12-00	9	0.99	4.3	14.3	0.705	176	35	134	178	5.9
14	15-00	9	1.26	4.3	4.9	0.931	109	21	117	172	10.7
14	18-00	9	1.28	5.3	14.3	1.732	180	28	126	180	7.8
14	21-00	9	1.56	5.0	6.2	2.004	121	21	122	173	13.2
15	00-00	9	2.12	5.8	7.0	5.288	124	29	124	151	4.2
15	03-00	9	1.55	4.9	7.0	2.072	125	29	124	161	3.9
15	06-00	9	1.54	5.2	7.0	1.650	121	26	126	156	5.4
15	09-00	9	1.58	4.9	7.0	1.876	141	39	123	176	0.9
15	12-00	9	1.56	4.6	7.0	1.633	139	34	126	163	2.1
15	15-00	9	1.40	4.8	6.2	1.304	143	30	128	183	4.2
15	18-00	9	1.38	4.7	6.2	1.156	146	36	119	171	1.4
15	21-00	9	1.14	4.5	13.3	0.727	192	34	129	189	6.1
16	00-00	9	1.08	5.0	13.3	1.079	180	25	134	180	8.9
16	03-00	9	1.16	4.5	6.2	1.070	161	26	133	184	4.6
16	06-00	9	1.08	4.5	13.3	0.781	181	32	125	191	5.3
16	09-00	9	1.02	4.3	4.9	0.457	134	30	118	176	3.7
16	12-00	9	0.99	4.4	5.5	0.432	129	31	120	175	3.8
16	15-00	9	0.96	4.1	5.5	0.491	120	32	118	166	3.4
16	18-00	9	0.83	4.1	12.5	0.521	175	32	122	176	4.4
16	21-00	9	0.69	4.8	13.3	0.348	175	34	120	186	4.6
17	00-00	9	0.69	4.5	12.5	0.260	170	35	126	186	3.6
17	03-00	9	0.63	5.3	13.3	0.203	180	34	116	192	4.9
17	06-00	9	0.66	5.0	12.5	0.381	176	29	102	196	9.4
17	09-00	9	0.63	5.1	10.5	0.310	248	47	94	212	1.1
17	15-00	9	0.67	5.6	10.5	0.596	247	39	125	205	2.5
17	18-00	9	0.71	5.6	10.0	0.565	251	36	156	215	1.8
17	21-00	9	0.66	5.6	10.0	0.516	252	38	297	212	2.2
18	00-00	9	0.60	5.1	9.1	0.332	247	38	300	203	1.5
18	03-00	9	0.58	5.0	10.0	0.446	242	42	94	198	1.3
18	06-00	9	0.62	5.8	9.1	0.460	252	33	139	208	3.4
18	09-00	9	0.67	5.7	9.1	0.464	251	29	294	209	3.9
18	12-00	9	0.60	4.3	9.1	0.263	246	46	304	197	1.0
18	15-00	9	0.57	3.9	11.8	0.296	187	32	332	202	7.3
18	18-00	9	0.57	4.4	12.5	0.341	176	34	135	192	6.0
18	21-00	9	0.56	5.2	11.8	0.304	183	32	125	195	7.2
19	00-00	9	0.56	5.1	11.8	0.436	178	35	124	187	9.2
19	03-00	9	0.52	5.0	11.8	0.214	178	38	141	184	5.7
19	06-00	9	0.48	5.4	11.8	0.214	175	41	124	182	4.2
19	09-00	9	0.51	6.6	11.8	0.340	179	27	146	180	10.3
19	12-00	9	0.53	4.1	11.8	0.257	186	37	143	192	2.3
19	15-00	9	0.64	3.6	11.8	0.247	166	39	127	175	2.1

DIA	HORA	NG	HM0 (m)	T02 (s)	TP (s)	SMAX (m2.s)	THTP1 (graus)	SPRTP1 (graus)	THHF1 (graus)	THLF1 (graus)	N
19	18-00	9	0.72	3.7	11.1	0.271	173	42	122	174	2.1
19	21-00	9	0.70	3.6	11.1	0.182	177	52	130	180	2.0
20	00-00	9	0.73	3.7	11.1	0.237	179	39	145	172	2.0
20	03-00	9	0.75	3.7	15.4	0.255	171	35	151	181	3.8
20	06-00	9	0.65	3.5	14.3	0.211	170	36	146	176	2.7
20	09-00	9	0.68	3.7	14.3	0.233	171	38	137	183	3.7
20	12-00	9	0.65	3.6	14.3	0.186	176	42	152	176	3.1
20	15-00	9	0.73	3.5	4.0	0.188	151	39	157	182	1.0
20	18-00	9	0.76	3.6	14.3	0.216	173	40	158	190	3.2
20	21-00	9	0.67	3.6	14.3	0.167	181	41	147	182	1.4
21	00-00	9	0.66	4.1	14.3	0.177	179	40	164	183	2.2
21	03-00	9	0.69	4.1	14.3	0.303	173	26	166	173	9.8
21	06-00	9	0.78	4.1	4.5	0.249	180	38	177	178	1.5
21	09-00	9	0.85	4.4	4.9	0.406	195	31	186	195	3.6
21	15-00	9	0.71	4.3	15.4	0.266	159	39	202	180	5.1
21	18-00	8	0.72	4.1	15.4	0.302	170	25	197	184	9.5
21	21-00	9	0.68	4.9	14.3	0.452	170	23	196	191	10.4
23	12-00	9	0.62	5.5	7.0	0.251	246	65	198	184	3.1
23	15-00	9	0.57	5.3	12.5	0.171	176	30	248	188	7.0
23	18-00	9	0.53	5.4	7.0	0.147	239	71	214	182	2.3
23	21-00	9	0.50	4.9	7.0	0.112	239	69	145	164	3.7
24	00-00	9	0.51	4.9	9.1	0.131	129	47	172	168	2.2
24	03-00	9	0.49	4.8	8.0	0.117	115	56	225	166	10.8
24	06-00	9	0.42	4.3	6.2	0.080	173	77	129	172	5.9
24	09-00	9	0.40	5.4	8.0	0.110	103	56	128	158	14.2
24	12-00	9	0.45	5.5	8.0	0.145	162	76	174	163	6.2
24	15-00	8	0.46	5.2	7.0	0.139	102	72	271	150	8.0
24	18-00	9	0.45	4.1	8.0	0.129	121	73	130	175	7.5
24	21-00	9	0.36	5.2	7.0	0.082	120	69	141	173	17.8
25	00-00	9	0.41	5.8	8.0	0.139	106	54	141	169	10.2
25	03-00	8	0.46	5.8	8.0	0.180	96	76	122	219	14.8
25	06-00	9	0.60	6.1	8.0	0.323	293	42	265	241	17.8
25	09-00	9	0.56	6.5	8.0	0.311	291	40	123	233	31.0
25	12-00	9	0.65	5.5	9.1	0.436	290	28	109	251	11.1
25	15-00	9	0.74	5.0	9.1	0.609	298	25	81	252	16.4
25	18-00	9	0.93	4.7	10.5	0.769	294	30	122	252	11.5
25	21-00	9	0.81	4.1	9.1	0.416	289	29	128	246	12.8
28	12-00	9	0.70	4.6	7.0	0.241	136	66	139	199	4.9
28	15-00	9	0.68	4.2	7.0	0.229	115	66	129	185	7.0
28	18-00	9	0.74	4.1	7.0	0.317	126	54	131	177	8.0
28	21-00	9	0.77	4.7	7.0	0.411	123	43	138	197	13.8
29	00-00	9	0.83	4.8	7.0	0.479	125	35	133	177	11.9
29	03-00	9	0.78	5.3	7.0	0.456	138	46	142	173	4.8
29	12-00	9	0.86	5.4	7.0	0.684	135	30	142	173	14.4
29	15-00	9	0.73	5.1	7.0	0.330	138	52	141	183	8.3

DIA	HORA	NG	HM0 (m)	T02 (s)	TP (s)	SMAX (m2.s)	THTP1 (graus)	SPRTP1 (graus)	THHF1 (graus)	THLF1 (graus)	N
29	18-00	9	0.76	5.1	14.3	0.353	183	36	135	196	3.8
29	21-00	9	0.77	5.0	15.4	0.359	181	32	153	196	5.6
30	00-00	9	0.84	5.8	15.4	0.567	179	34	133	213	5.5
30	03-00	9	0.80	6.1	14.3	0.723	178	34	139	217	6.6
30	06-00	9	0.86	6.5	11.1	0.674	295	34	138	250	7.3
30	09-00	9	1.02	6.9	10.5	1.145	287	29	152	244	12.6
30	12-00	9	0.86	6.6	12.5	0.484	197	48	138	230	1.9
30	15-00	9	0.95	7.1	10.0	0.965	283	29	149	245	9.3
30	18-00	9	1.02	7.0	9.1	0.825	290	29	103	255	13.9
30	21-00	9	1.18	7.6	14.3	1.701	260	56	126	272	1.8
31	00-00	9	1.37	8.7	14.3	3.335	274	37	121	274	3.1
31	03-00	9	1.97	10.1	13.3	11.009	283	23	126	272	13.8

DIA	HORA	NG	HM0 (m)	T02 (s)	TP (s)	SMAX (m2.s)	THTP1 (graus)	SPRTP1 (graus)	THHF1 (graus)	THLF1 (graus)	N
01	15-00	9	0.86	5.2	8.0	0.460	269	54	194	219	2.5
01	18-00	9	0.87	4.8	8.0	0.375	287	54	243	230	5.2
02	00-00	9	0.74	4.7	8.0	0.321	273	54	216	227	5.5
02	09-00	9	0.88	4.5	11.1	0.328	255	57	268	242	0.8
02	12-00	9	0.94	5.1	12.5	0.507	238	58	244	257	0.6
02	15-00	9	1.00	5.6	12.5	0.926	289	40	246	272	7.0
02	18-00	9	1.30	6.3	12.5	2.635	292	25	264	277	11.4
02	21-00	9	1.34	5.8	11.8	2.306	290	29	271	263	10.6
03	00-00	9	1.31	6.0	10.5	2.911	284	25	250	252	11.8
03	03-00	9	1.26	6.5	11.1	2.244	284	24	239	251	16.3
03	06-00	9	1.37	6.2	10.5	2.081	286	23	255	253	9.5
03	09-00	9	1.33	5.9	10.5	1.665	293	26	276	244	13.6
03	12-00	9	1.31	5.7	10.5	1.572	282	29	253	243	8.9
03	15-00	9	1.23	5.6	9.1	1.343	283	25	200	222	11.9
03	18-00	9	1.39	5.5	9.1	1.316	275	27	223	235	8.6
03	21-00	9	1.53	5.9	10.0	2.769	289	20	246	242	17.6
04	00-00	9	1.36	5.5	10.0	1.642	277	25	225	228	11.0
04	03-00	9	1.48	5.6	9.1	3.202	272	22	200	219	13.6
04	06-00	9	1.52	5.2	9.1	2.227	272	25	203	216	6.8
04	09-00	9	1.65	4.7	9.1	1.792	277	24	202	225	8.6
04	12-00	9	1.68	4.9	9.1	1.945	272	22	209	216	13.6
04	15-00	9	1.56	5.2	9.1	1.649	273	22	203	211	15.5
04	18-00	9	1.58	5.4	8.0	1.921	267	26	196	216	6.9
04	21-00	9	1.81	5.7	9.1	3.126	268	19	228	230	11.5
05	00-00	9	1.96	6.0	9.1	4.518	265	17	221	230	17.6
05	03-00	9	1.68	5.4	8.0	2.801	256	20	198	218	12.8
05	06-00	9	1.90	5.7	9.1	3.137	241	23	194	221	6.4
05	09-00	9	2.18	5.9	9.1	4.607	252	19	216	229	15.7
05	12-00	9	2.09	5.5	10.0	3.329	259	25	216	226	15.1
05	15-00	9	1.91	5.3	9.1	3.157	249	25	224	219	7.4
05	18-00	9	1.92	5.4	8.0	2.430	246	26	236	226	5.1
05	21-00	9	2.37	5.9	8.0	5.992	256	21	262	252	8.5
06	00-00	9	2.28	5.6	8.0	4.206	254	25	275	240	6.1
06	03-00	9	1.90	5.6	9.1	2.958	275	28	279	247	4.7
06	06-00	9	1.57	5.8	8.0	2.311	257	30	276	225	2.6
06	09-00	9	1.70	5.8	8.0	2.464	273	29	267	238	3.1
06	12-00	9	1.64	5.5	8.0	1.969	290	26	281	256	5.5
07	18-00	9	0.72	4.3	15.4	0.185	184	41	294	236	2.9
07	21-00	8	0.66	5.0	8.0	0.190	291	64	291	226	6.4
08	00-00	8	0.63	4.7	8.0	0.146	245	74	292	186	7.7
08	03-00	9	0.73	4.7	15.4	0.237	183	47	299	207	1.4
08	06-00	9	0.61	4.5	14.3	0.173	180	42	295	200	4.5
08	09-00	8	0.57	5.5	14.3	0.468	179	29	291	202	10.0
08	12-00	9	0.59	5.2	15.4	0.238	181	37	293	178	5.0
08	15-00	9	0.69	4.2	14.3	0.420	171	36	300	203	3.6

DIA	HORA	NG	HM0 (m)	T02 (s)	TP (s)	SMAX (m2.s)	THTP1 (graus)	SPRTP1 (graus)	THHF1 (graus)	THLF1 (graus)	N
08	21-00	9	0.58	7.4	13.3	0.499	176	26	275	203	11.6
09	00-00	9	0.64	7.5	14.3	0.661	173	26	271	214	11.3
09	03-00	9	0.75	5.7	13.3	0.898	182	31	297	231	11.2
09	06-00	9	0.84	5.4	13.3	0.991	166	21	297	227	12.8
09	09-00	9	0.99	5.6	10.0	1.047	281	30	254	224	8.4
09	12-00	9	1.08	4.8	13.3	1.187	176	32	257	218	3.4
09	15-00	9	1.28	4.3	4.9	0.626	293	22	268	221	9.2
09	18-00	9	1.26	4.2	12.5	0.811	169	37	243	208	2.3
09	21-00	9	1.69	5.3	7.0	1.902	281	25	235	224	7.5
10	00-00	9	1.66	5.2	7.0	2.055	289	29	238	217	4.4
10	06-00	9	1.48	4.8	7.0	1.051	259	29	241	201	6.2
10	09-00	9	1.26	6.1	8.0	1.225	267	23	205	199	7.8
10	12-00	9	1.29	6.2	7.0	1.331	266	28	222	195	4.5
10	18-00	9	1.15	5.0	11.8	0.734	171	30	264	202	5.4
10	21-00	9	0.86	5.9	11.1	0.478	165	25	217	187	9.7
11	00-00	9	0.88	6.3	8.0	0.415	291	35	205	193	2.8
11	03-00	9	0.87	5.8	11.1	0.339	185	33	268	201	3.4
11	06-00	9	0.82	5.4	11.1	0.414	181	32	266	202	5.7
11	09-00	9	0.77	6.6	11.8	0.654	180	21	281	210	16.7
11	12-00	9	0.68	6.6	7.0	0.283	286	31	260	191	4.7
11	15-00	9	0.74	6.6	10.5	0.363	177	28	291	182	5.5
11	18-00	9	0.89	5.2	10.5	0.562	192	30	277	199	3.8
11	21-00	9	0.76	7.0	15.4	0.415	171	41	298	192	4.1
12	00-00	9	0.66	7.4	15.4	0.417	174	19	292	188	14.3
12	03-00	9	0.66	6.6	16.7	0.378	179	31	269	190	6.0
12	06-00	9	0.77	6.0	15.4	0.906	185	33	279	194	7.4
12	09-00	9	0.75	4.5	15.4	0.548	175	35	281	188	3.2
12	12-00	9	0.76	4.9	14.3	0.621	177	23	277	182	11.3
12	15-00	9	0.87	5.1	15.4	0.930	182	31	271	185	7.9
12	18-00	9	0.96	4.5	15.4	0.720	187	32	288	201	6.3
12	21-00	9	1.02	4.5	15.4	0.999	184	28	275	200	6.5
13	00-00	9	0.95	4.5	14.3	0.720	180	28	264	186	7.0
13	03-00	9	0.96	4.8	14.3	0.673	174	36	271	191	4.2
13	06-00	9	1.20	4.5	4.5	0.575	286	18	289	235	13.1
13	09-00	9	1.27	5.1	15.4	1.649	183	23	283	245	9.7
13	12-00	9	0.97	5.0	14.3	0.736	178	28	283	230	6.9
13	15-00	9	0.97	5.6	14.3	0.608	182	40	284	226	4.2
13	18-00	9	1.00	5.1	14.3	0.636	185	44	289	240	2.7
13	21-00	9	1.10	5.6	14.3	0.985	213	55	288	265	1.3
14	00-00	9	1.09	6.4	8.0	0.873	290	15	284	282	30.6
14	03-00	9	1.12	6.7	14.3	1.355	242	52	293	276	0.5
14	09-00	9	1.37	6.9	11.8	1.863	297	26	291	284	19.3
14	12-00	9	1.09	7.0	12.5	0.931	282	46	306	269	4.0
14	15-00	9	0.99	5.5	8.0	0.737	300	19	294	255	10.0
14	18-00	9	0.81	6.2	13.3	0.490	181	51	290	256	3.6

DIA	HORA	NG	HM0 (m)	T02 (s)	TP (s)	SMAX (m2.s)	THTP1 (graus)	SPRTP1 (graus)	THHF1 (graus)	THLF1 (graus)	N
14	21-00	9	0.96	6.4	11.8	1.111	295	31	291	274	8.7
15	00-00	9	0.86	7.1	11.8	0.598	269	47	280	265	1.9
15	03-00	9	0.92	7.1	18.2	0.733	266	26	279	271	8.7
15	06-00	9	0.98	6.5	16.7	1.539	271	35	281	277	5.4
15	09-00	9	1.11	5.3	16.7	1.887	274	34	265	283	6.8
15	12-00	9	1.23	6.3	15.4	3.098	276	31	245	277	12.0
15	15-00	9	1.44	5.9	14.3	3.301	269	32	249	268	4.4
15	18-00	9	1.48	5.4	14.3	3.312	279	27	260	279	12.4
18	15-00	9	1.07	7.2	11.8	1.692	236	41	222	232	0.9
18	18-00	9	1.14	6.4	11.1	2.144	247	37	245	224	2.0
18	21-00	9	1.25	6.3	10.5	2.657	252	37	261	241	3.1
19	00-00	9	1.18	4.9	11.1	1.395	247	45	260	215	2.3
19	03-00	9	1.18	5.4	10.5	1.508	233	36	243	215	2.2
19	06-00	9	1.21	5.3	11.1	1.700	237	38	257	211	1.3
19	09-00	9	1.23	5.9	10.0	1.631	244	40	260	233	1.3
19	18-00	9	1.31	5.6	10.0	2.042	251	34	253	237	2.6
19	21-00	9	1.47	5.1	10.0	1.858	239	34	252	240	2.1
20	00-00	8	1.45	4.6	9.1	0.945	249	45	249	247	0.6
20	03-00	9	1.88	4.6	5.5	2.138	234	30	220	251	4.0
20	06-00	9	3.21	5.7	7.0	8.908	211	29	167	231	3.2
20	09-13	9	6.14	10.1	11.8	54.563	220	21	288	232	8.9
20	09-44	9	6.91	10.4	11.8	82.703	233	17	290	235	13.6
20	10-14	9	5.65	9.5	15.4	38.054	251	19	292	237	16.3
20	10-45	9	5.33	9.2	15.4	40.898	257	17	296	243	17.7
20	11-35	9	5.02	8.7	14.3	40.806	257	18	297	245	16.1
20	15-00	9	3.49	7.2	11.1	13.186	242	26	296	253	4.7
20	18-00	9	2.98	7.6	11.1	10.938	249	23	282	257	7.7
20	21-00	9	2.60	6.9	11.8	6.606	262	24	274	262	6.0
21	00-00	9	2.68	6.8	11.8	5.662	259	22	270	263	8.3
21	03-00	9	2.72	6.5	10.5	7.488	261	22	278	272	13.9
21	06-00	9	3.01	7.6	10.0	11.813	261	25	276	275	9.1
21	09-00	9	2.63	7.2	10.5	8.989	266	25	299	276	7.9
21	12-00	9	2.27	6.5	10.0	3.926	282	27	288	283	5.1
21	15-00	9	2.41	6.8	11.8	4.602	292	23	290	291	7.4
21	18-00	9	1.97	6.4	11.1	3.998	282	28	292	286	5.9
21	21-00	9	1.91	6.3	9.1	2.546	275	34	281	278	2.8
22	00-00	9	2.09	6.6	10.5	3.425	261	32	277	276	2.1
22	03-00	9	2.05	5.9	12.5	2.420	295	25	284	282	11.4
22	06-00	9	2.08	6.1	8.0	2.223	281	29	290	289	6.6
22	09-00	9	2.03	5.5	7.0	1.769	291	27	295	269	4.2
22	12-00	9	1.66	5.2	7.0	1.510	294	26	291	275	4.3
22	15-00	9	1.86	5.0	5.5	1.419	288	21	295	272	8.5
22	18-00	9	2.05	5.4	9.1	2.058	281	35	290	269	2.4
22	21-00	9	1.88	5.9	7.0	2.702	285	21	288	267	6.8
23	03-00	9	1.52	5.3	8.0	1.413	282	26	284	257	5.3

DIA	HORA	NG	HM0 (m)	T02 (s)	TP (s)	SMAX (m2.s)	THTP1 (graus)	SPRTP1 (graus)	THHF1 (graus)	THLF1 (graus)	N
23	06-00	9	1.67	5.2	9.1	1.265	288	30	289	267	5.6
23	09-00	9	1.39	5.8	8.0	1.130	287	25	278	250	5.9
23	12-00	9	1.32	5.6	7.0	0.949	284	27	275	226	5.0
23	15-00	9	1.49	5.4	10.0	1.214	271	32	283	253	2.8
23	18-00	9	1.38	5.3	9.1	1.108	270	31	284	256	3.3
23	21-00	9	1.21	6.4	11.8	0.998	259	31	281	248	3.8
24	00-00	9	1.19	6.8	11.8	1.235	247	28	267	240	4.8
24	06-00	9	1.25	6.1	11.8	1.369	260	27	287	250	4.4
24	09-00	9	0.95	7.1	15.4	0.742	215	39	287	244	1.3
24	12-00	8	1.24	7.2	10.5	1.466	246	25	265	238	5.6
24	15-00	9	1.44	6.7	14.3	2.267	260	26	279	254	10.2
24	21-00	9	1.88	7.2	18.2	6.391	268	20	223	265	17.3
25	00-00	9	3.65	9.7	18.2	49.887	263	12	209	260	57.8
25	03-00	9	3.01	7.3	15.4	18.790	263	22	216	258	12.0
25	10-13	9	6.10	9.9	15.4	74.142	264	15	191	262	35.7
25	10-55	9	6.15	9.8	16.7	57.446	263	15	198	267	25.2
25	11-25	9	6.16	9.8	15.4	73.432	264	15	199	265	21.0
25	11-56	9	6.12	9.6	15.4	63.236	266	16	205	268	24.3
25	12-27	9	5.55	9.1	15.4	40.751	264	19	209	266	16.9
25	13-18	9	5.14	8.7	14.3	30.965	272	19	212	270	13.0
25	13-59	9	5.18	8.8	14.3	36.725	271	19	211	270	13.0
25	14-40	9	4.59	8.1	15.4	25.796	271	22	207	270	12.9
25	18-00	9	3.16	7.2	13.3	11.550	287	25	230	276	8.4
25	21-00	9	3.86	8.9	14.3	29.575	271	29	202	268	9.2
26	00-00	9	3.90	8.2	12.5	16.588	271	22	220	274	9.1
26	03-00	9	3.68	7.3	10.0	9.768	274	21	254	276	10.0
26	09-00	9	3.23	7.9	11.1	15.188	268	22	255	266	8.5
26	12-00	9	2.80	7.4	12.5	10.040	285	29	259	271	8.7
26	15-00	9	2.69	7.3	10.5	7.592	280	26	267	272	5.2
26	18-00	9	2.61	7.3	11.8	9.131	292	19	267	268	19.1
26	21-00	9	2.17	7.0	11.8	5.055	290	23	279	260	19.0
27	00-00	9	2.07	7.2	10.5	3.811	284	26	255	247	6.8
27	03-00	9	1.87	6.5	10.5	2.699	279	24	267	234	8.5
27	06-00	9	1.86	6.6	10.0	3.225	280	24	275	240	7.9
27	09-00	9	1.59	6.2	10.0	3.400	279	26	278	234	6.6
27	12-00	9	1.26	6.6	9.1	1.538	272	32	280	216	2.9
27	15-00	9	1.21	6.2	8.0	1.186	273	33	249	209	2.7
27	18-00	9	1.24	5.6	8.0	1.056	269	29	268	220	3.6
27	21-00	9	1.19	5.5	8.0	1.161	270	28	274	223	5.1
28	00-00	9	1.03	5.7	8.0	0.914	277	32	272	227	2.8
28	03-00	9	1.03	6.0	8.0	0.751	273	33	272	206	3.2
28	06-00	9	0.95	5.3	8.0	0.467	266	30	269	216	3.7
28	09-00	9	1.03	5.0	14.3	0.617	179	29	275	228	8.7
28	12-00	9	0.92	5.3	8.0	0.545	262	30	274	227	3.5
28	15-00	9	0.98	5.0	15.4	0.503	159	32	260	226	4.7

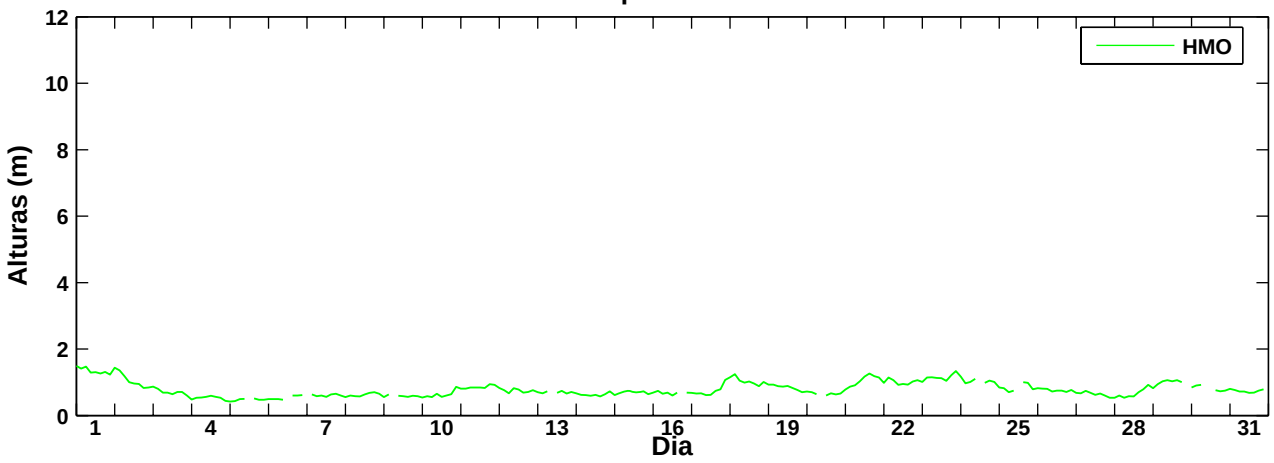
DIA	HORA	NG	HM0 (m)	T02 (s)	TP (s)	SMAX (m2.s)	THTP1 (graus)	SPRTP1 (graus)	THHF1 (graus)	THLF1 (graus)	N
28	18-00	9	1.10	5.3	10.0	0.611	279	23	277	224	10.1
28	21-00	9	1.10	4.8	9.1	0.677	286	26	277	241	6.6
29	03-00	9	1.15	5.4	9.1	0.961	275	24	273	234	7.7
29	06-00	9	1.15	5.5	14.3	0.706	181	35	279	252	7.4
29	09-00	9	1.13	5.0	11.8	0.646	275	46	289	249	3.5
29	12-00	9	1.19	5.0	10.0	0.859	280	32	286	234	8.2
29	15-00	9	1.26	4.9	10.5	0.920	274	30	276	238	6.8
29	18-00	9	1.29	5.1	10.0	1.013	283	27	280	252	10.8
29	21-00	9	1.39	5.4	10.0	1.526	290	27	288	253	7.3
30	00-00	9	1.25	5.6	11.1	1.570	291	31	285	251	7.9
30	03-00	9	1.27	5.0	9.1	0.985	294	27	277	261	7.7
30	06-00	9	1.36	5.0	13.3	0.830	246	59	281	271	1.4
30	09-00	9	1.51	5.1	10.0	1.926	287	24	280	277	8.4
30	12-00	9	1.68	4.6	5.5	1.280	261	29	245	287	3.5
30	15-00	9	1.99	5.2	6.2	2.898	253	29	237	286	3.2
30	18-00	9	1.71	5.4	7.0	2.299	270	22	275	277	6.6
30	21-00	9	1.34	6.0	10.5	1.098	281	29	279	282	7.8

ANEXO E

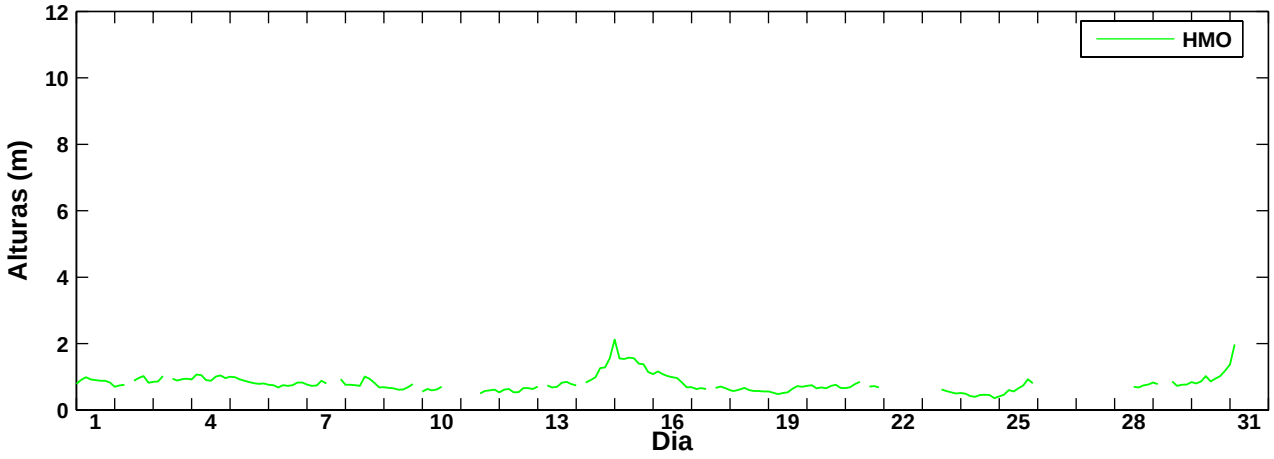
Gráficos temporais de HM0, T02, TP, THTP1, SPRTP1, THHF1 E THLF1

SMIGUEL

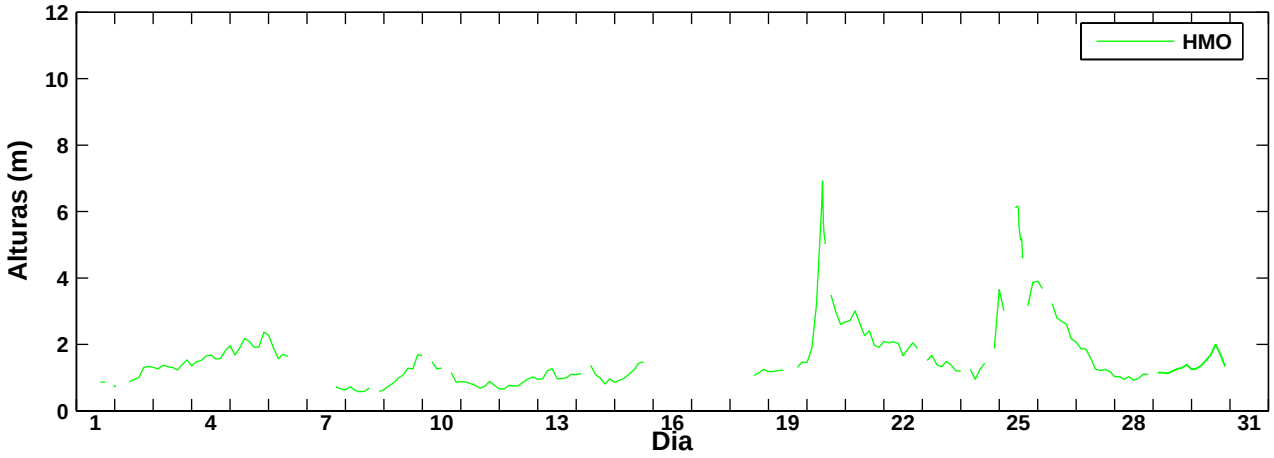
Série temporal − Julho 2006

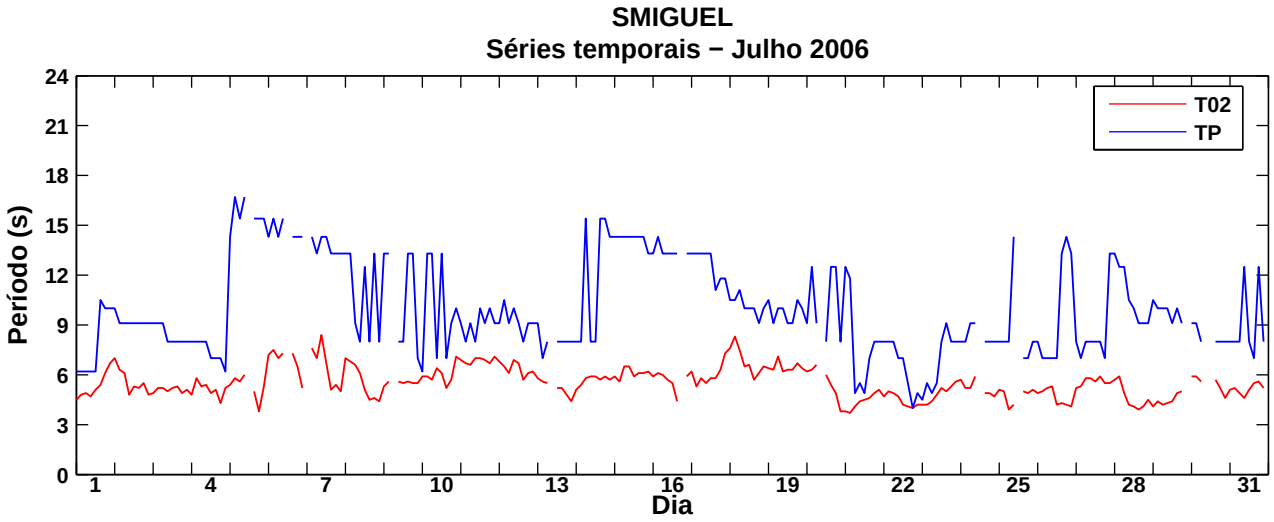


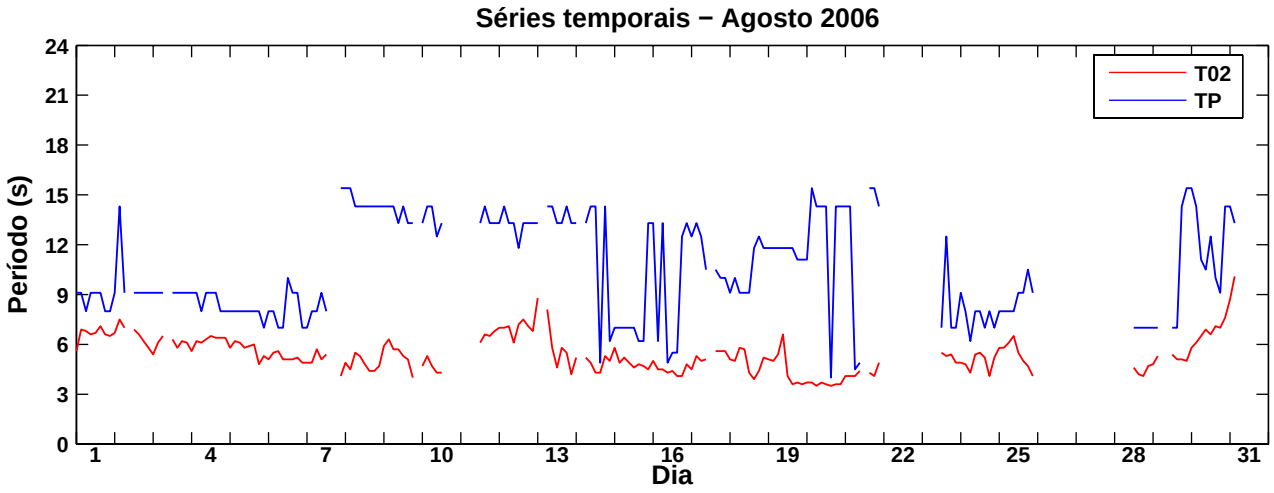
Série temporal − Agosto 2006

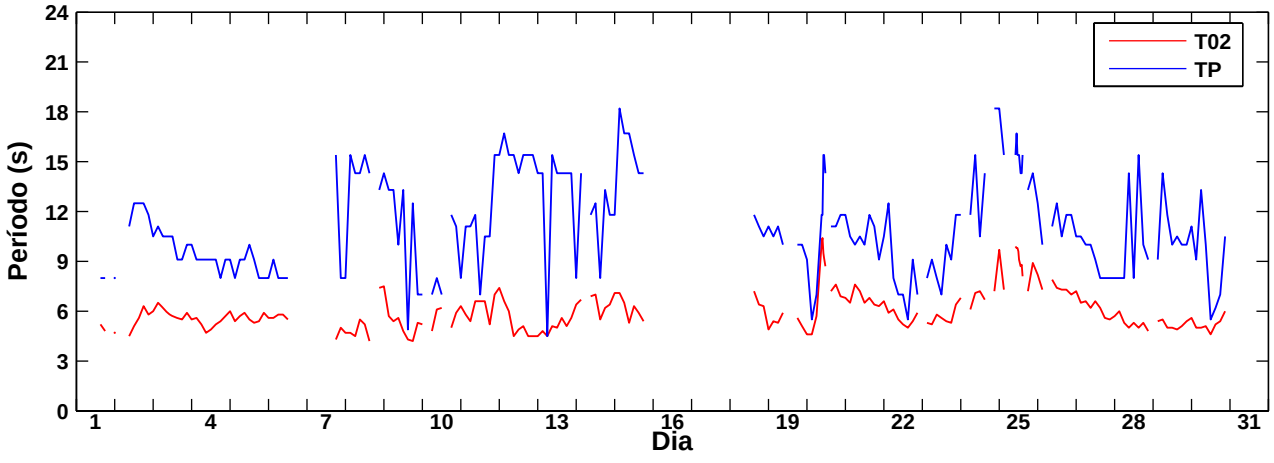


Série temporal − Setembro 2006



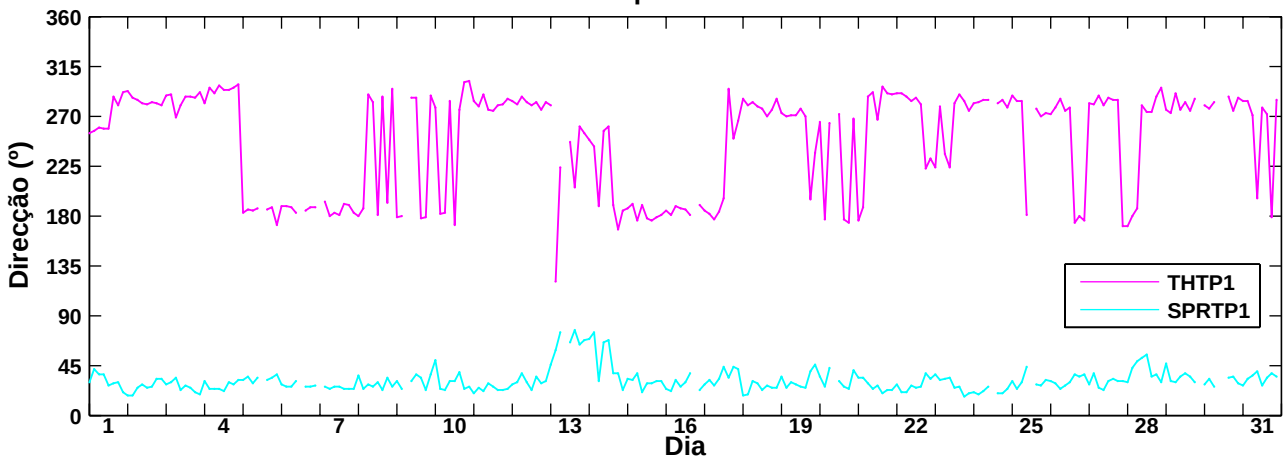

SMIGUEL
Séries temporais − Julho 2006
Período (s)
Dia
T02
TP


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

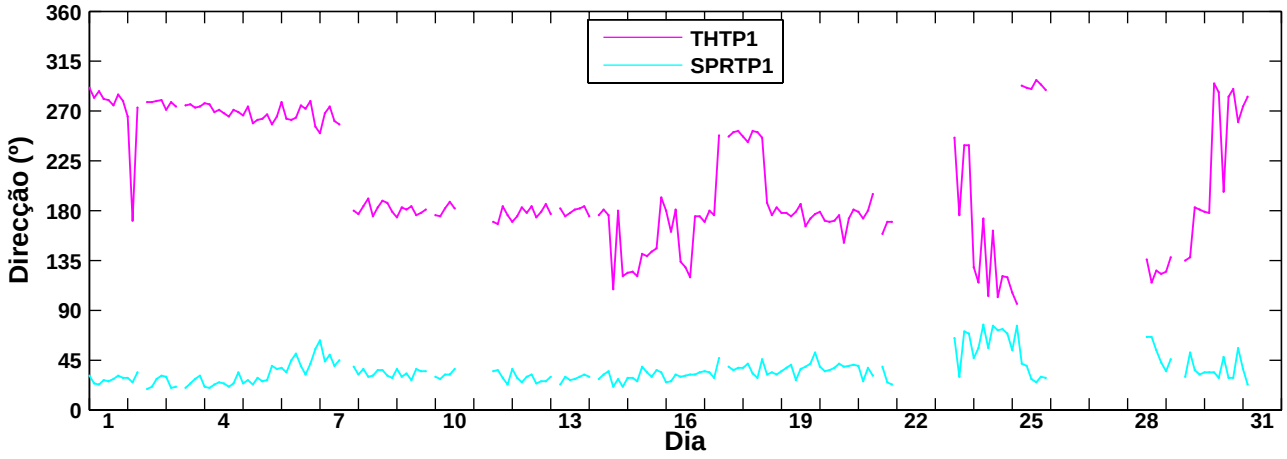

Séries temporais − Setembro 2006
Período (s)
Dia
T02
TP

SMIGUEL

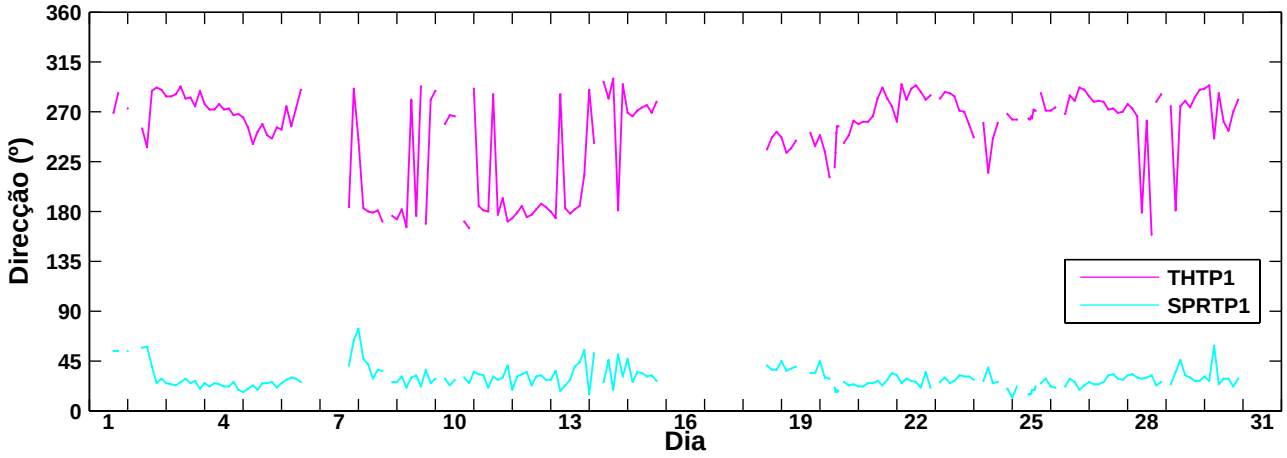
Séries temporais − Julho 2006

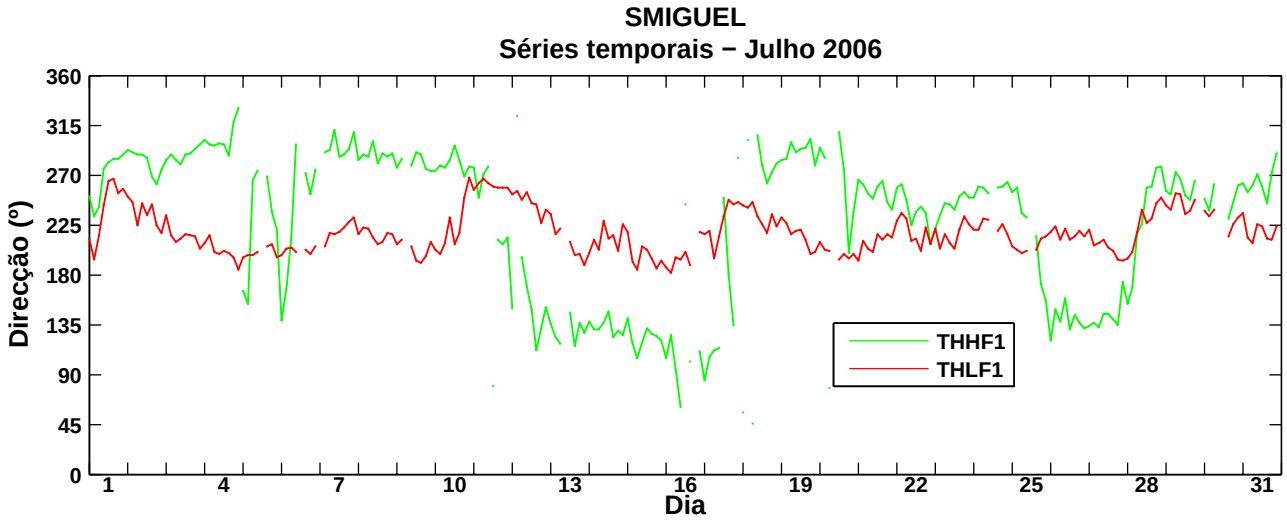


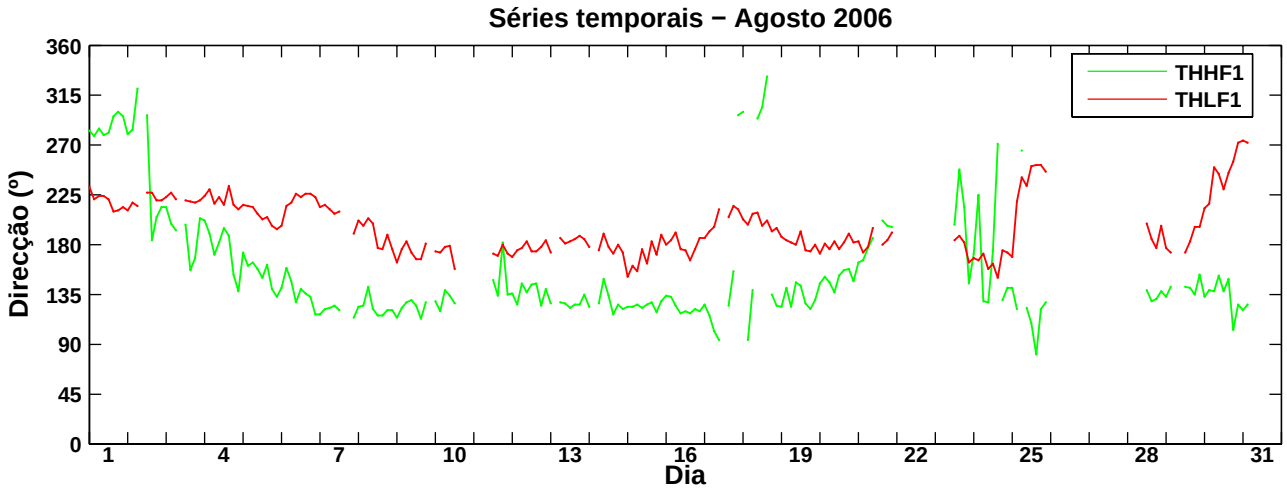
Séries temporais − Agosto 2006

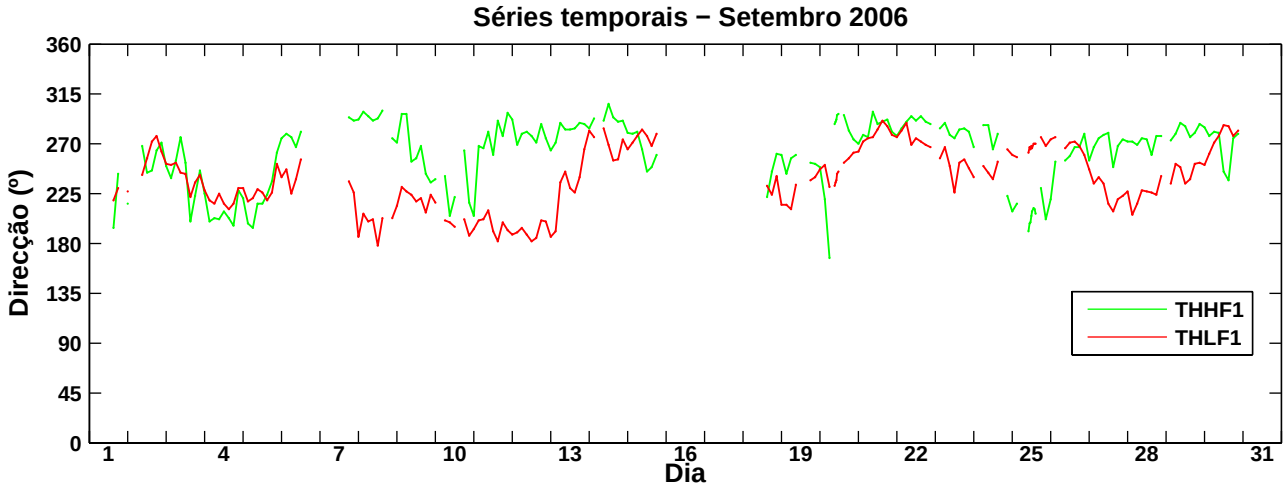


Séries temporais − Setembro 2006




SMIGUEL
Séries temporais − Julho 2006
Direcção (º)
Dia
THHF1
THLF1


Séries temporais − Agosto 2006
Direcção (º)
Dia
THHF1
THLF1


Séries temporais − Setembro 2006
Direcção (º)
Dia
THHF1
THLF1

ANEXO F

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

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL JUL 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	5		4												11	4.7	5.9
.5- 1.0		5	35	87	42	9	1											179	75.8	5.6
1.0- 1.5			22	13	6	4	1											46	19.5	5.3
1.5- 2.0																				
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																				
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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		6	58	105	48	17	2											236	100	
%		2.5	24.6	44.5	20.3	7.2	.8											100		
MED		.7	.9	.7	.8	.8	.9													

T02

MED 5.5 MIN 3.7 MAX 8.4

DES.PAD .9 ASSIM .37 CURT 2.87

HM0

MED .79 MIN .42 MAX 1.49

DES.PAD .22 ASSIM .90 CURT 3.32

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			3	7														10	5.2	5.2
.5- 1.0		12	43	55	32	10	2											154	80.2	5.4
1.0- 1.5			8	3	7	2	1											21	10.9	5.7
1.5- 2.0			3	2					1									6	3.1	5.8
2.0- 2.5				1														1	.5	5.8
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		12	57	68	39	12	3		1									192	100	
%		6.3	29.7	35.4	20.3	6.3	1.6		.5									100		
MED		.7	.8	.8	.8	.8	.9		2.0											

T02

MED 5.4 MIN 3.5 MAX 10.1

DES.PAD 1.1 ASSIM .75 CURT 4.19

HM0

MED .80 MIN .36 MAX 2.12

DES.PAD .26 ASSIM 1.86 CURT 8.51

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL SET 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			13	19	9	7												48	24.4	5.6
1.0- 1.5			10	38	20	3												71	36.0	5.6
1.5- 2.0			4	23	6	1												34	17.3	5.6
2.0- 2.5				7	4	2												13	6.6	6.1
2.5- 3.0					3	5												8	4.1	7.1
3.0- 3.5				1		5												6	3.0	7.2
3.5- 4.0						1	2	1										4	2.0	8.5
4.0- 4.5																				
4.5- 5.0							1											1	.5	8.1
5.0- 5.5							3	1										4	2.0	8.8
5.5- 6.0								2										2	1.0	9.3
6.0- 6.5								4	1									5	2.5	9.8
6.5- 7.0									1									1	.5	10.4
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			27	88	42	24	6	8	2									197	100	
%			13.7	44.7	21.3	12.2	3.0	4.1	1.0									100		
MED			1.1	1.4	1.4	2.0	4.6	5.6	6.5											

T02			HM0		
MED 6.1	MIN 4.2	MAX 10.4	MED 1.75	MIN .57	MAX 6.91
DES.PAD 1.3	ASSIM 1.30	CURT 4.60	DES.PAD 1.26	ASSIM 2.22	CURT 7.68

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						3	5	1			11	4.7	13.7
.5- 1.0			1	1	1	17	49	30	16	3	9	30	17	4	1			179	75.8	10.2
1.0- 1.5			5	3	5	2	10	8	11	2								46	19.5	8.1
1.5- 2.0																				
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			6	4	7	19	60	38	27	5	9	30	20	9	2			236	100	
%			2.5	1.7	3.0	8.1	25.4	16.1	11.4	2.1	3.8	12.7	8.5	3.8	.8			100		
MED			1.1	1.1	1.1	.8	.8	.9	1.0	.9	.7	.6	.6	.5	.5					

TP

MED 10.0 MIN 4.0 MAX 16.7

DES.PAD 2.9 ASSIM .42 CURT 2.13

HM0

MED .79 MIN .42 MAX 1.49

DES.PAD .22 ASSIM .90 CURT 3.32

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL AGO 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					1	2	6			1								10	5.2	8.0
.5- 1.0			3	2		16	17	30	8	12	7	22	29	8				154	80.2	10.9
1.0- 1.5			2		3		3	5	1			3	4					21	10.9	9.8
1.5- 2.0					1	4						1						6	3.1	7.9
2.0- 2.5						1												1	.5	7.0
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			5	2	5	23	26	35	9	13	7	26	33	8				192	100	
%			2.6	1.0	2.6	12.0	13.5	18.2	4.7	6.8	3.6	13.5	17.2	4.2				100		
MED			.9	1.0	1.2	.9	.8	.8	.8	.6	.7	.8	.8	.8						

TP

MED 10.5 MIN 4.0 MAX 15.4

DES.PAD 3.0 ASSIM .01 CURT 1.67

HM0

MED .80 MIN .36 MAX 2.12

DES.PAD .26 ASSIM 1.86 CURT 8.51

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL SET 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	9		3	7	1	4	9	11	2		1	48	24.4	12.6
1.0- 1.5			2			3	8	9	18	13	4	2	8	3	1			71	36.0	10.8
1.5- 2.0				3	1	5	7	11	5	1							1	34	17.3	8.6
2.0- 2.5						1	3	2	4	2	1							13	6.6	9.7
2.5- 3.0									3	4	1							8	4.1	11.3
3.0- 3.5						1			1	2		1		1				6	3.0	11.3
3.5- 4.0									1		1		1				1	4	2.0	13.8
4.0- 4.5																				
4.5- 5.0														1				1	.5	15.4
5.0- 5.5													3	1				4	2.0	14.6
5.5- 6.0														2				2	1.0	15.4
6.0- 6.5										1				3	1			5	2.5	14.9
6.5- 7.0										1								1	.5	11.8
7.0- 7.5																				
7.5- 8.0																				
8.0- 8.5																				
8.5- 9.0																				
9.0- 9.5																				
9.5-10.0																				
10.0-10.5																				
10.5-11.0																				
11.0-11.5																				
11.5-12.0																				
12.0-12.5																				
12.5-13.0																				
13.0-13.5																				
13.5-14.0																				
14.0-14.5																				
14.5-15.0																				
>15.0																				
SOMA			2	3	1	11	27	22	35	31	8	7	21	22	4		3	197	100	
%			1.0	1.5	.5	5.6	13.7	11.2	17.8	15.7	4.1	3.6	10.7	11.2	2.0		1.5	100		
MED			1.2	1.8	2.0	1.7	1.3	1.6	1.6	1.9	1.8	1.2	1.7	2.5	2.2		2.1			

TP

MED 11.1 MIN 4.5 MAX 18.2

DES.PAD 3.0 ASSIM .23 CURT 2.26

HM0

MED 1.75 MIN .57 MAX 6.91

DES.PAD 1.26 ASSIM 2.22 CURT 7.68

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL JUL 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	8			2			11	4.7	198
.5- 1.0					1	19	45	2	12	98	2		179	75.8	248
1.0- 1.5								5	7	34			46	19.5	275
1.5- 2.0															
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	20	53	7	19	134	2		236	100	
%					.4	8.5	22.5	3.0	8.1	56.8	.8		100		
MED					.7	.6	.6	1.0	.9	.9	.8				

THTP1				HM0		
MED 253	MIN 121	MAX 302		MED .79	MIN .42	MAX 1.49
DES.PAD .84	ASSIM 1.81	CURT -1.26		DES.PAD .22	ASSIM .90	CURT 3.32

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL AGO 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	2	3							10	5.2	126
.5- 1.0				1	10	49	31	2	27	34			154	80.2	210
1.0- 1.5				1	3	1	5		4	7			21	10.9	225
1.5- 2.0					5					1			6	3.1	136
2.0- 2.5					1								1	.5	124
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	21	53	36	2	31	42			192	100	
%				3.6	10.9	27.6	18.8	1.0	16.1	21.9			100		
MED				.6	1.1	.7	.8	.5	.8	.9					

THTP1

MED 204 MIN 96 MAX 298

DES.PAD 1.03 ASSIM -.57 CURT -1.23

HM0

MED .80 MIN .36 MAX 2.12

DES.PAD .26 ASSIM 1.86 CURT 8.51

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL SET 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						15	15	2	7	8	1		48	24.4	208
1.0- 1.5						4	4	5	18	40			71	36.0	263
1.5- 2.0								1	11	22			34	17.3	272
2.0- 2.5									5	8			13	6.6	275
2.5- 3.0									5	3			8	4.1	269
3.0- 3.5								1	4	1			6	3.0	256
3.5- 4.0									1	3			4	2.0	270
4.0- 4.5															
4.5- 5.0										1			1	.5	271
5.0- 5.5									2	2			4	2.0	264
5.5- 6.0									2				2	1.0	258
6.0- 6.5								1	4				5	2.5	256
6.5- 7.0								1					1	.5	233
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						19	19	11	59	88	1		197	100	
%						9.6	9.6	5.6	29.9	44.7	.5		100		
MED						.8	.9	2.4	2.3	1.7	1.0				

THTP1

MED 255 MIN 159 MAX 300

DES.PAD .69 ASSIM 2.53 CURT .53

HM0

MED 1.75 MIN .57 MAX 6.91

DES.PAD 1.26 ASSIM 2.22 CURT 7.68

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL JUL 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								4	1	1			6	2.5	244
5.0- 6.0								1		3			4	1.7	270
6.0- 7.0									5	2			7	3.0	266
7.0- 8.0					1					18			19	8.1	282
8.0- 9.0							1	1	8	50			60	25.4	279
9.0-10.0									3	34	1		38	16.1	282
10.0-11.0							1	1		24	1		27	11.4	277
11.0-12.0							1		2	2			5	2.1	259
12.0-13.0						5	4						9	3.8	181
13.0-14.0						9	21						30	12.7	182
14.0-15.0						4	16						20	8.5	184
15.0-16.0						2	7						9	3.8	183
16.0-17.0							2						2	.8	187
17.0-18.0															
>18.0															
SOMA					1	20	53	7	19	134	2		236	100	
%					.4	8.5	22.5	3.0	8.1	56.8	.8		100		
MED					7.0	13.5	13.8	6.0	7.9	8.5	9.6				

THTP1			TP		
MED 253	MIN 121	MAX 302	MED 10.0	MIN 4.0	MAX 16.7
DES.PAD .84	ASSIM 1.81	CURT -1.26	DES.PAD 2.85	ASSIM .42	CURT 2.13

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL AGO 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	2.6	154
5.0- 6.0					2								2	1.0	125
6.0- 7.0					3	2							5	2.6	149
7.0- 8.0				2	13			2	6				23	12.0	159
8.0- 9.0				4	1	1			11	9			26	13.5	263
9.0-10.0					1				8	26			35	18.2	273
10.0-11.0									5	4			9	4.7	264
11.0-12.0						8	4			1			13	6.8	183
12.0-13.0						5	2						7	3.6	180
13.0-14.0						13	12			1			26	13.5	181
14.0-15.0						18	13		1	1			33	17.2	182
15.0-16.0						5	3						8	4.2	175
16.0-17.0															
17.0-18.0															
>18.0															
SOMA				7	21	53	36	2	31	42			192	100	
%				3.6	10.9	27.6	18.8	1.0	16.1	21.9			100		
MED				7.3	6.8	13.0	13.1	7.0	8.6	9.2					

THTP1				TP			
MED 204	MIN 96	MAX 298		MED 10.5	MIN 4.0	MAX 15.4	
DES.PAD 1.03	ASSIM -.57	CURT -1.23		DES.PAD 3.02	ASSIM .01	CURT 1.67	

TABELA DE OCORRENCIAS CONJUNTAS SMIGUEL SET 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			2	1.0	290
5.0- 6.0								1	1	1			3	1.5	261
6.0- 7.0									1				1	.5	253
7.0- 8.0								1	2	8			11	5.6	275
8.0- 9.0									12	14	1		27	13.7	272
9.0-10.0									6	16			22	11.2	271
10.0-11.0						1	1	2	9	22			35	17.8	268
11.0-12.0						2	3	4	12	10			31	15.7	253
12.0-13.0						1		1		6			8	4.1	271
13.0-14.0						3	2		1	1			7	3.6	197
14.0-15.0						7	5	1	4	4			21	10.7	211
15.0-16.0						4	8	1	7	2			22	11.2	214
16.0-17.0						1			1	2			4	2.0	251
17.0-18.0															
>18.0									3				3	1.5	266
SOMA						19	19	11	59	88	1		197	100	
%						9.6	9.6	5.6	29.9	44.7	.5		100		
MED						13.9	14.0	11.1	11.1	10.0	8.0				

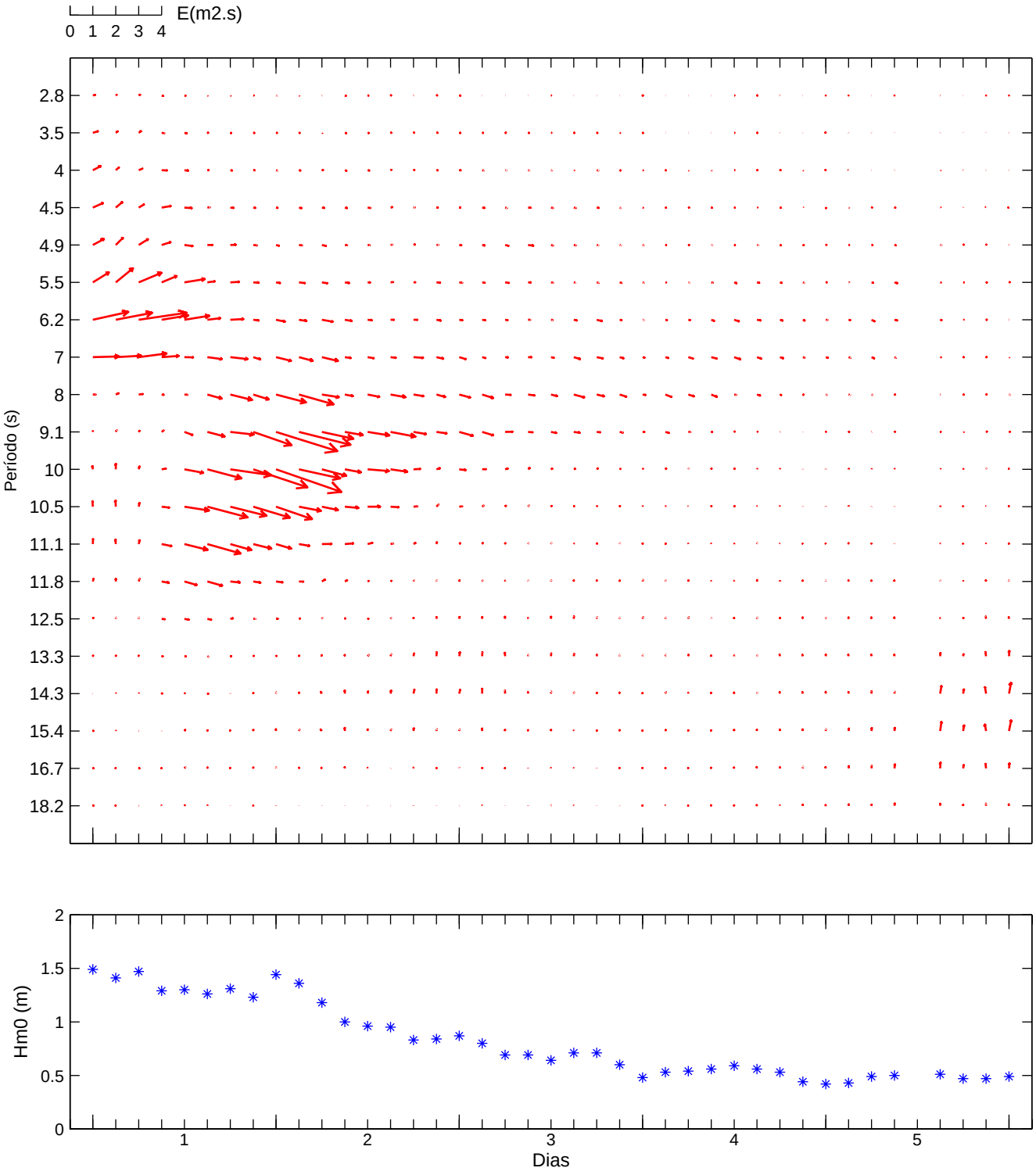
THTP1				TP			
MED 255	MIN 159	MAX 300		MED 11.1	MIN 4.5	MAX 18.2	
DES.PAD .69	ASSIM 2.53	CURT .53		DES.PAD 2.96	ASSIM .23	CURT 2.26	

ANEXO G

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

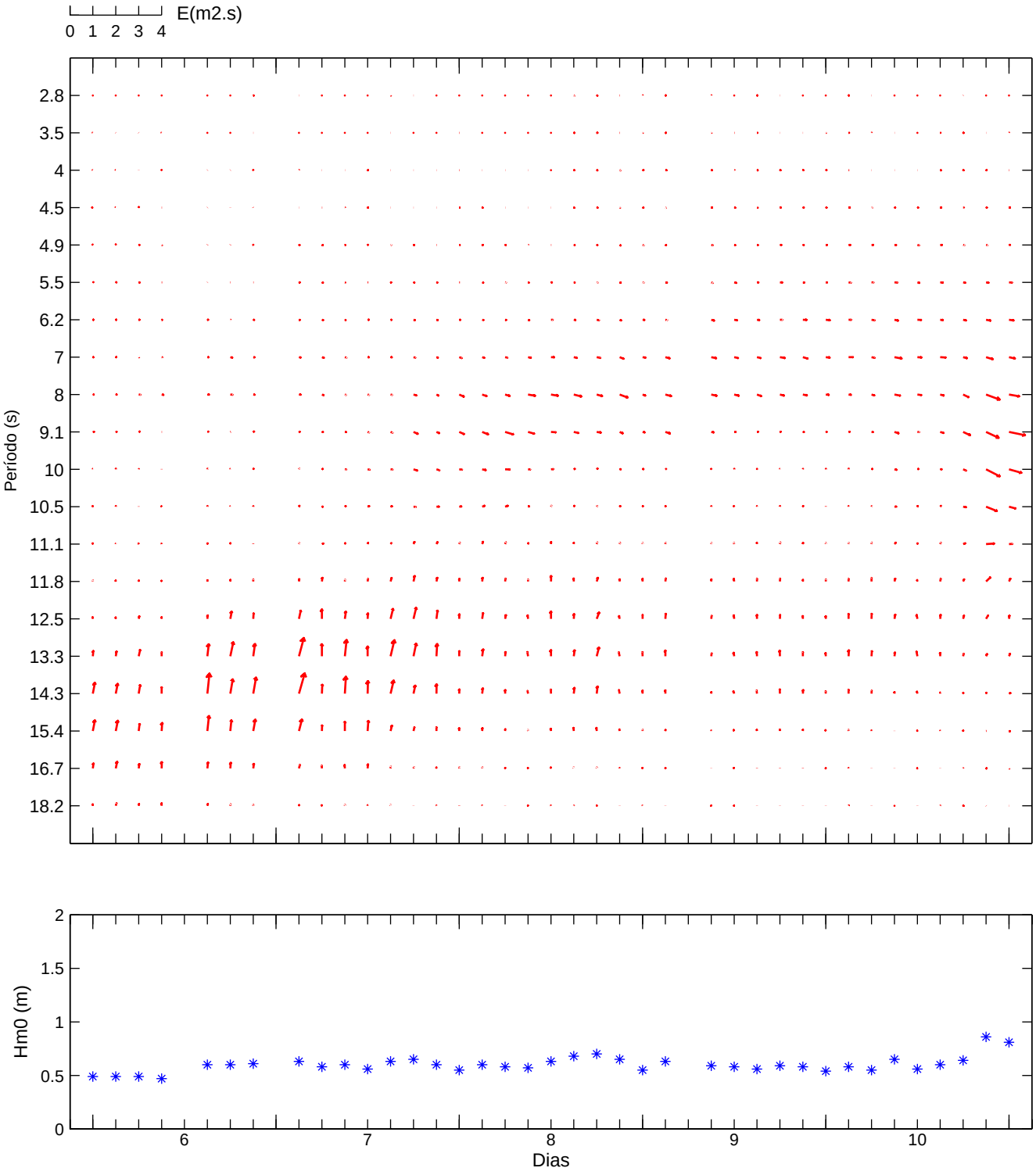
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − SMIGUEL 2006 JUL 1−5



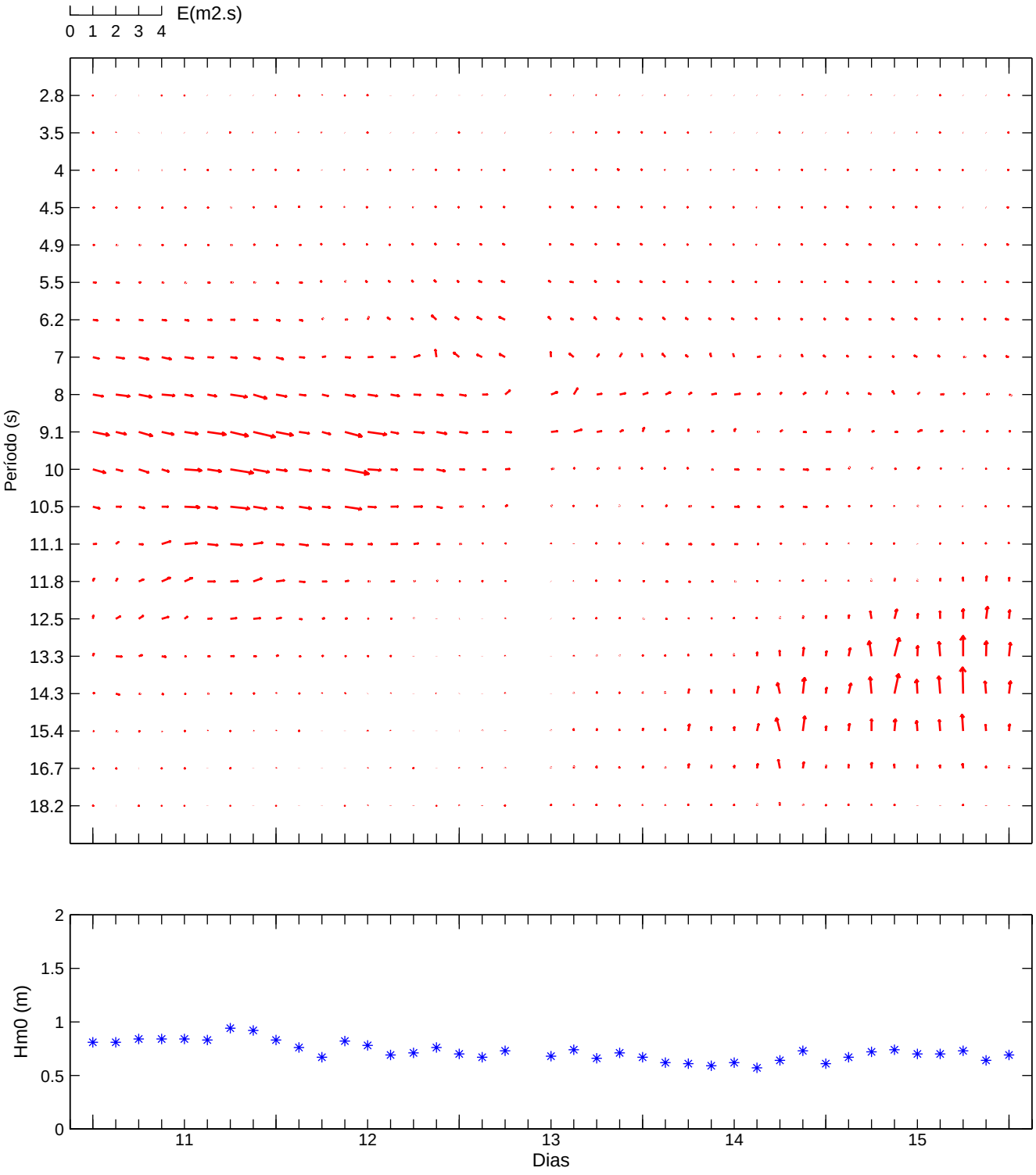
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − SMIGUEL 2006 JUL 6−10



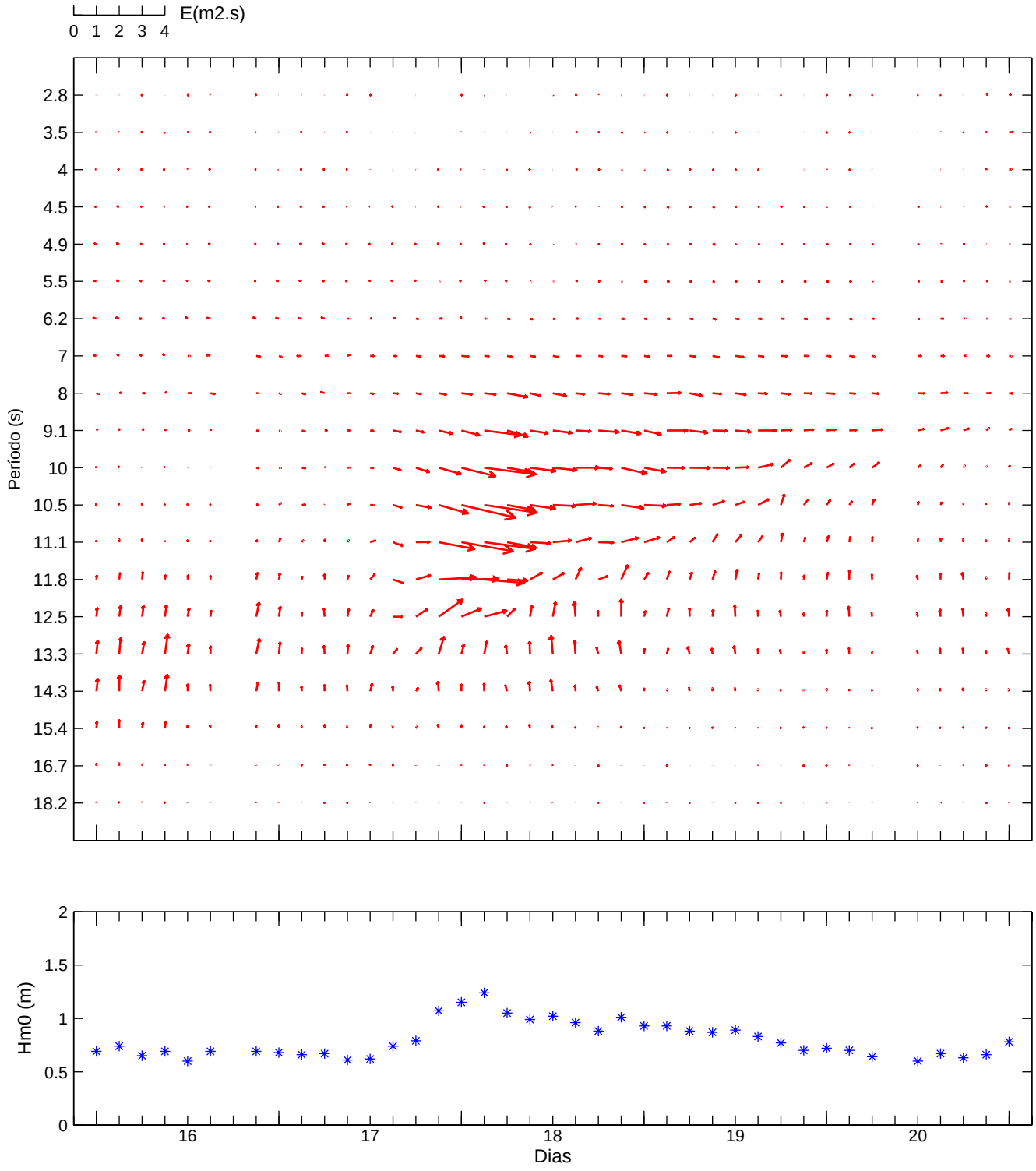
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − SMIGUEL 2006 JUL 11−15



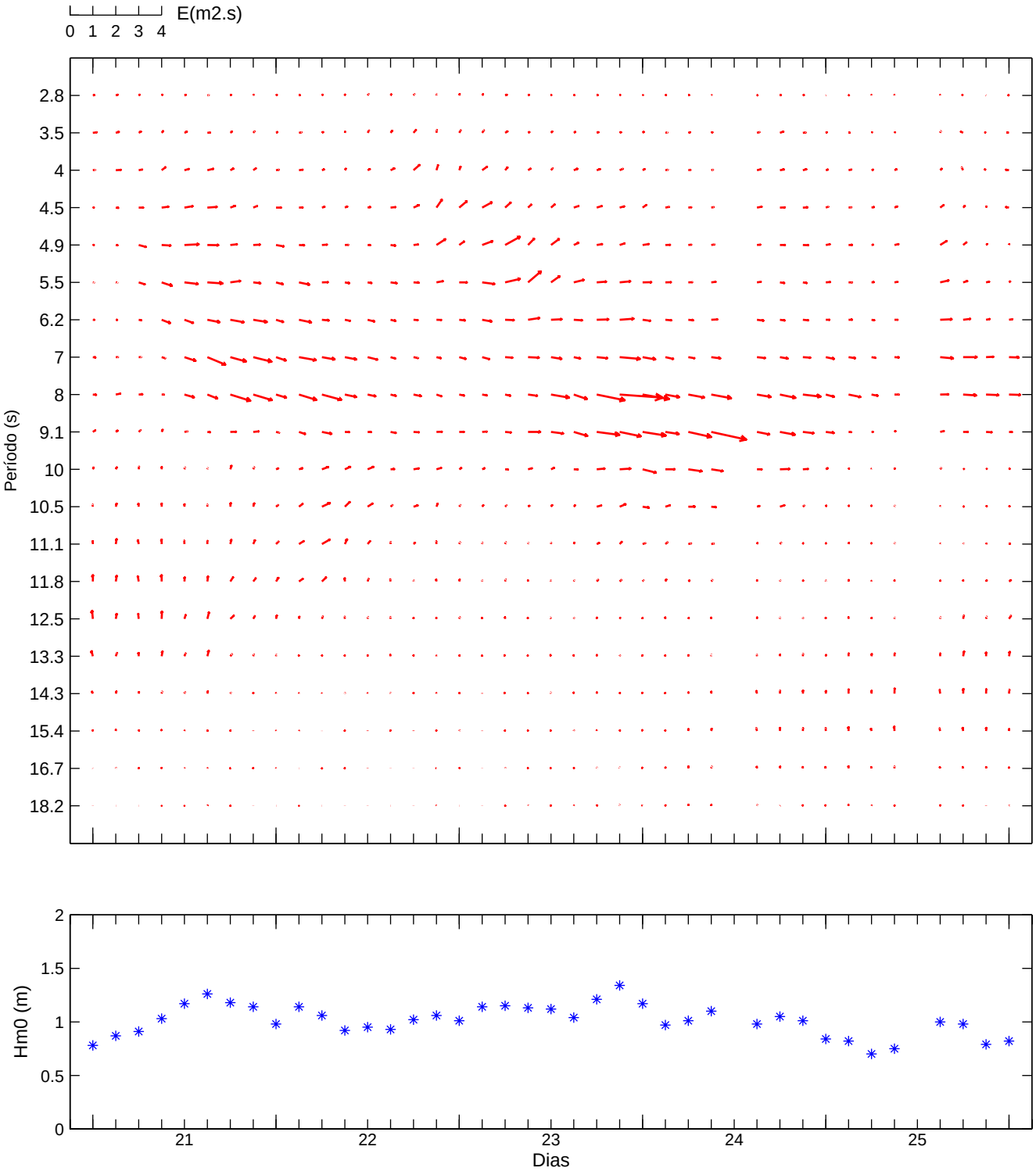
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − SMIGUEL 2006 JUL 16−20



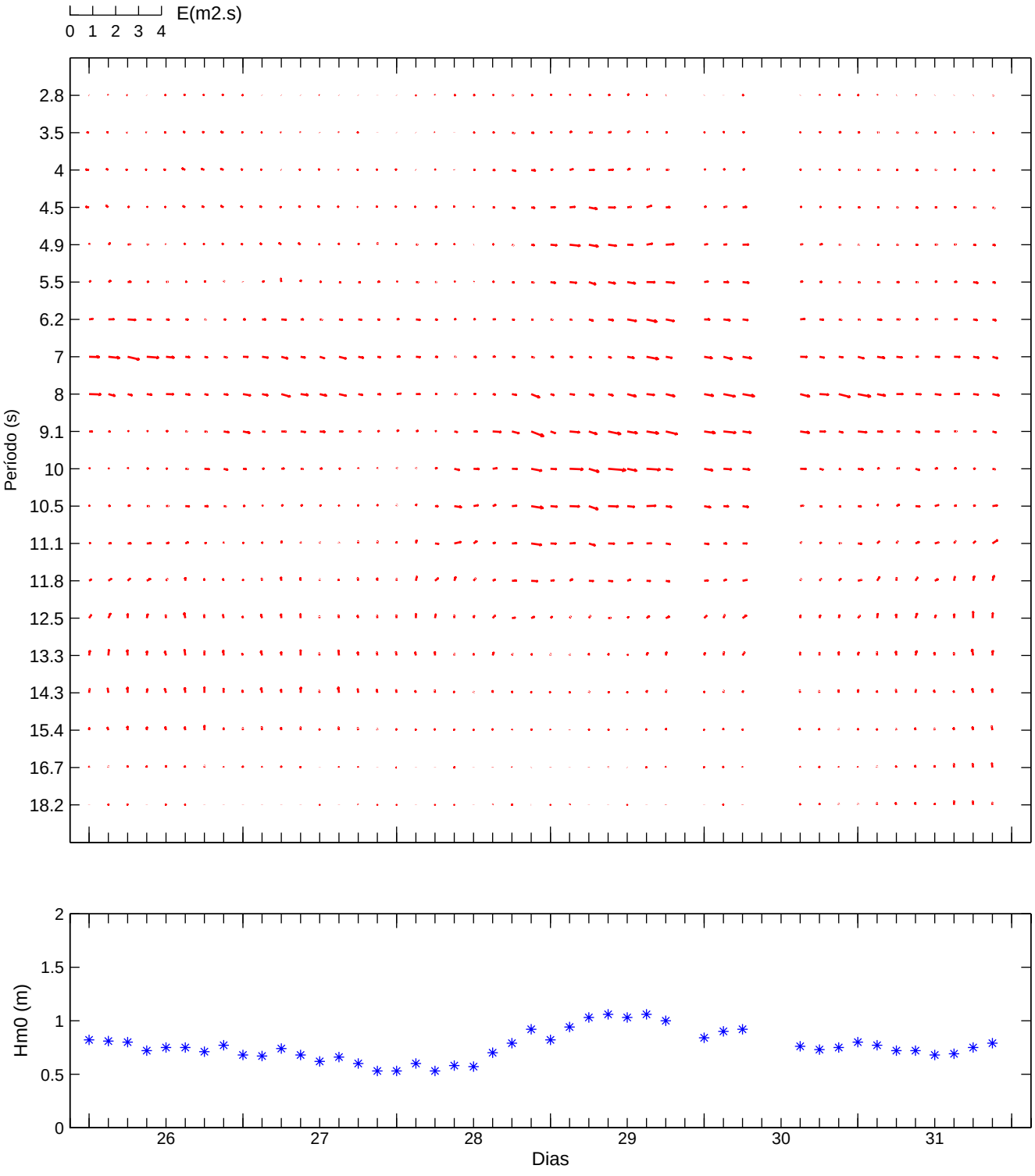
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − SMIGUEL 2006 JUL 21−25



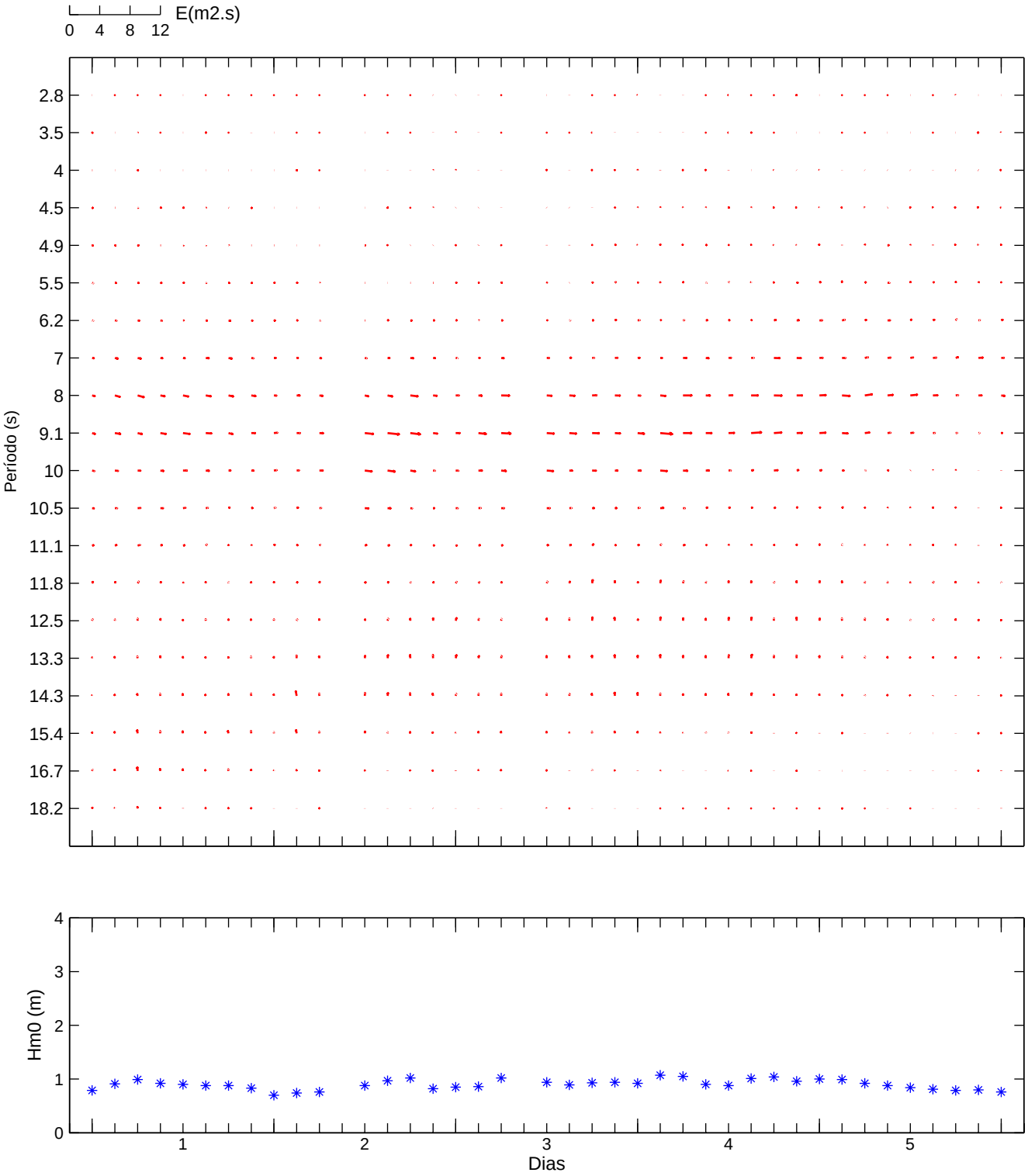
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − SMIGUEL 2006 JUL 26−31



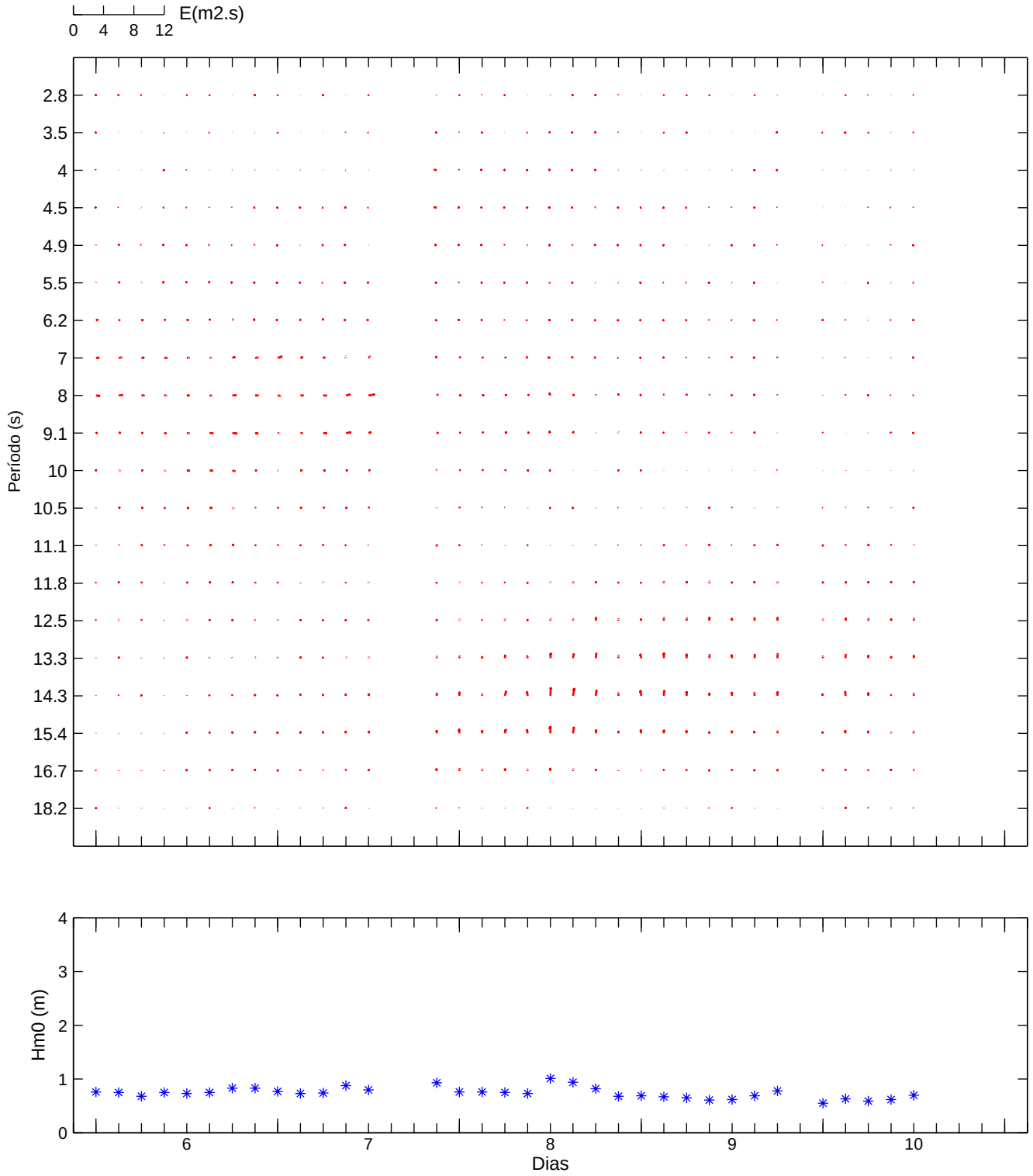
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − SMIGUEL 2006 AGO 1−5



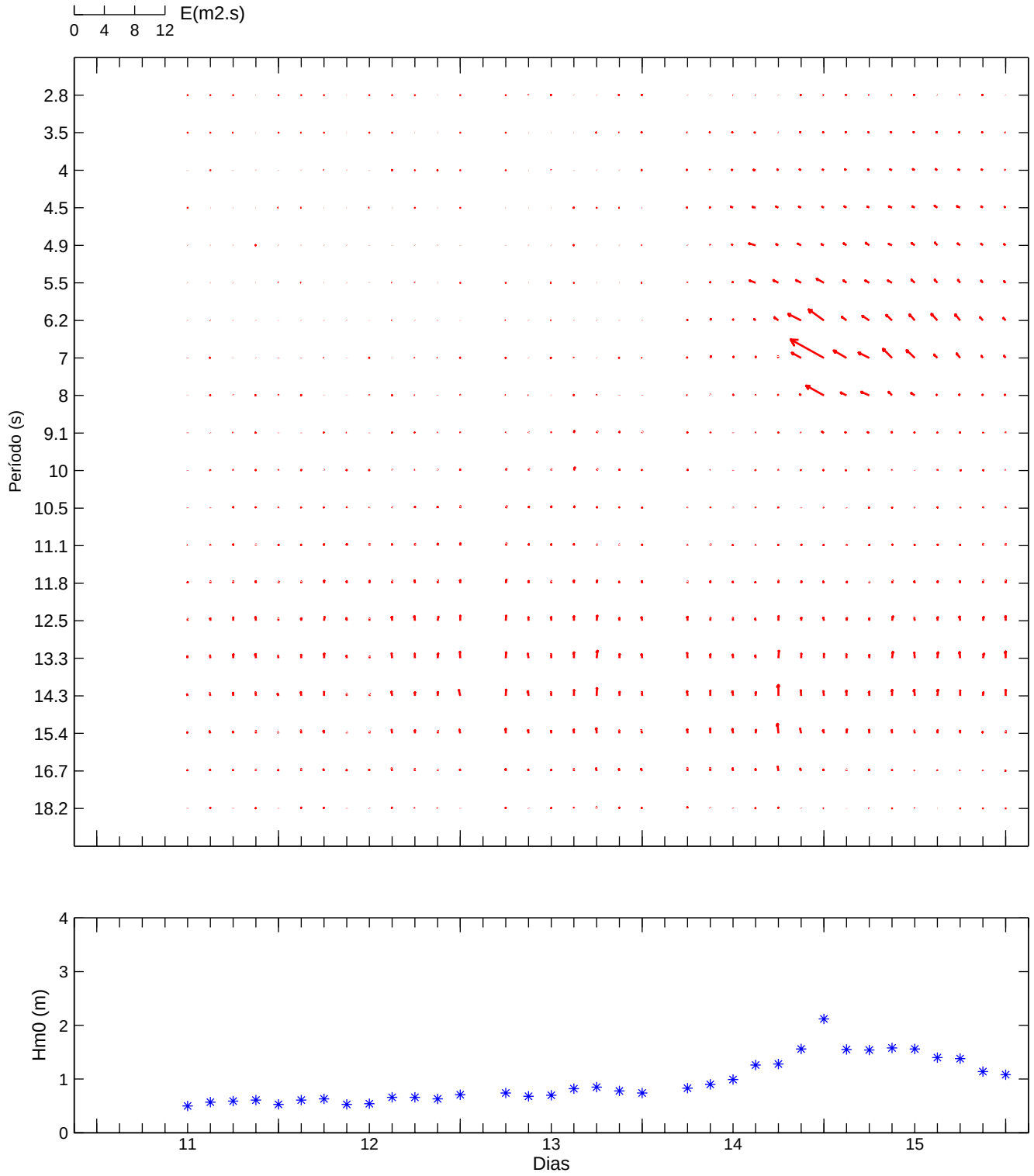
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − SMIGUEL 2006 AGO 6−10



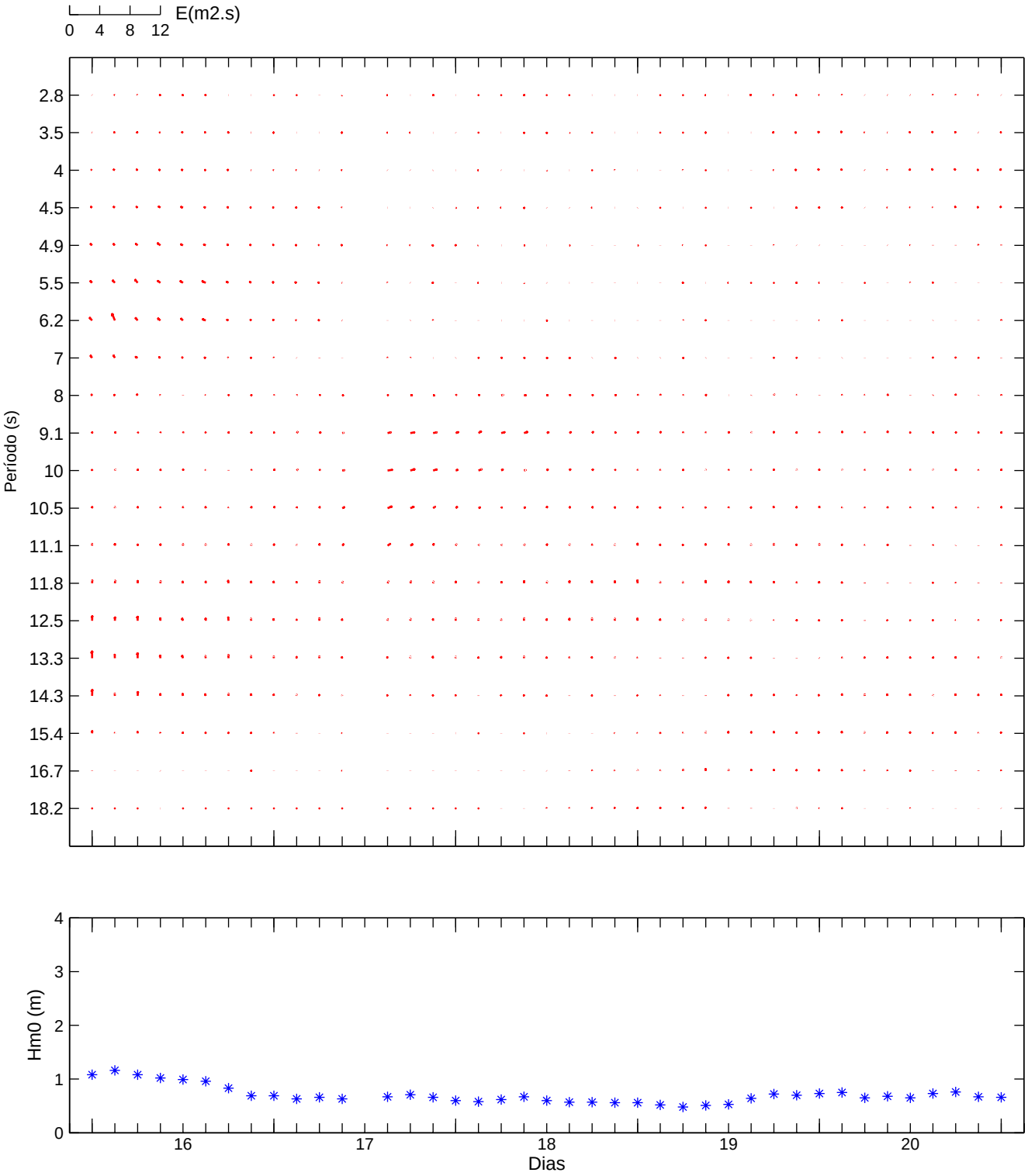
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − SMIGUEL 2006 AGO 11−15



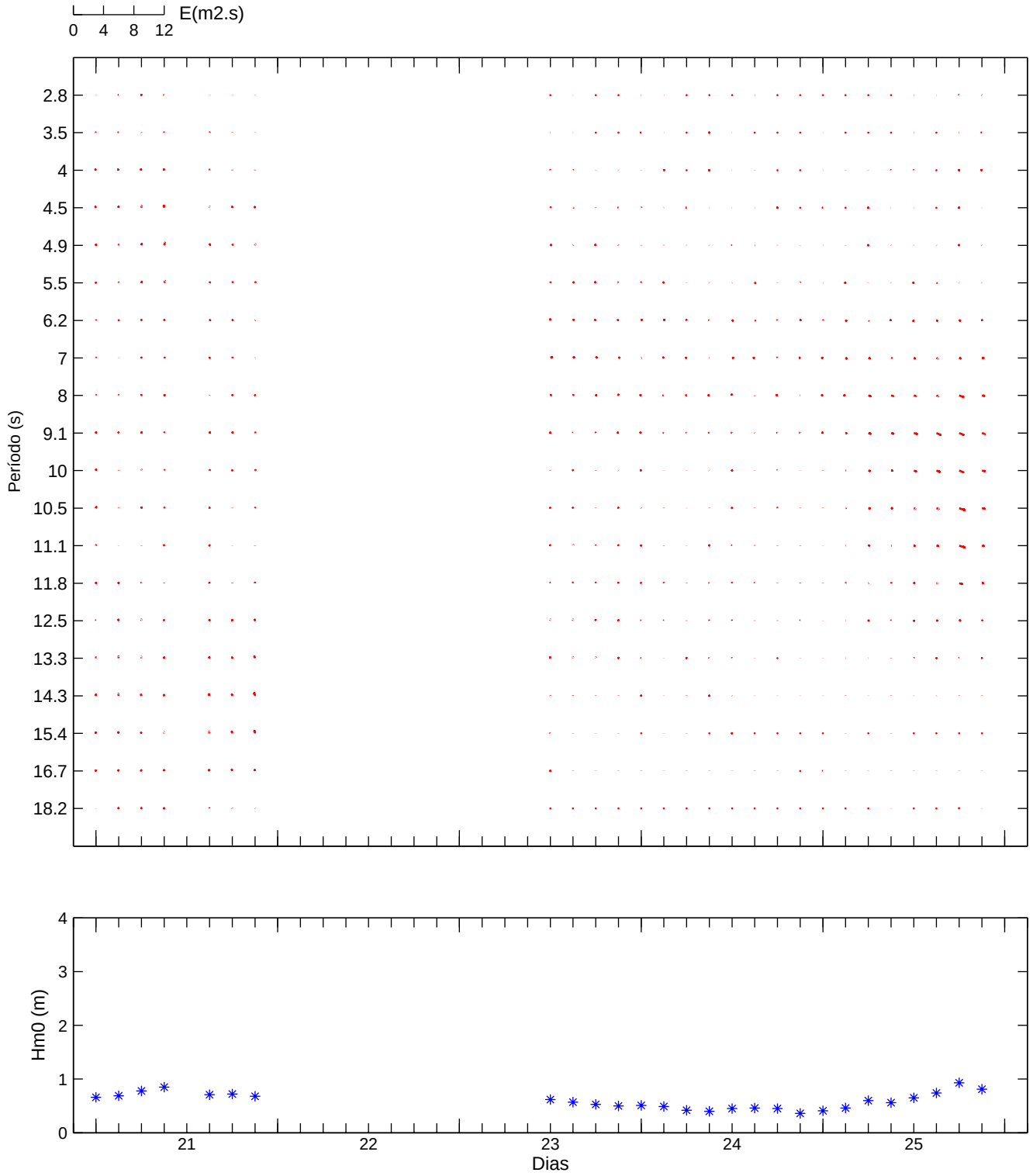
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − SMIGUEL 2006 AGO 16−20



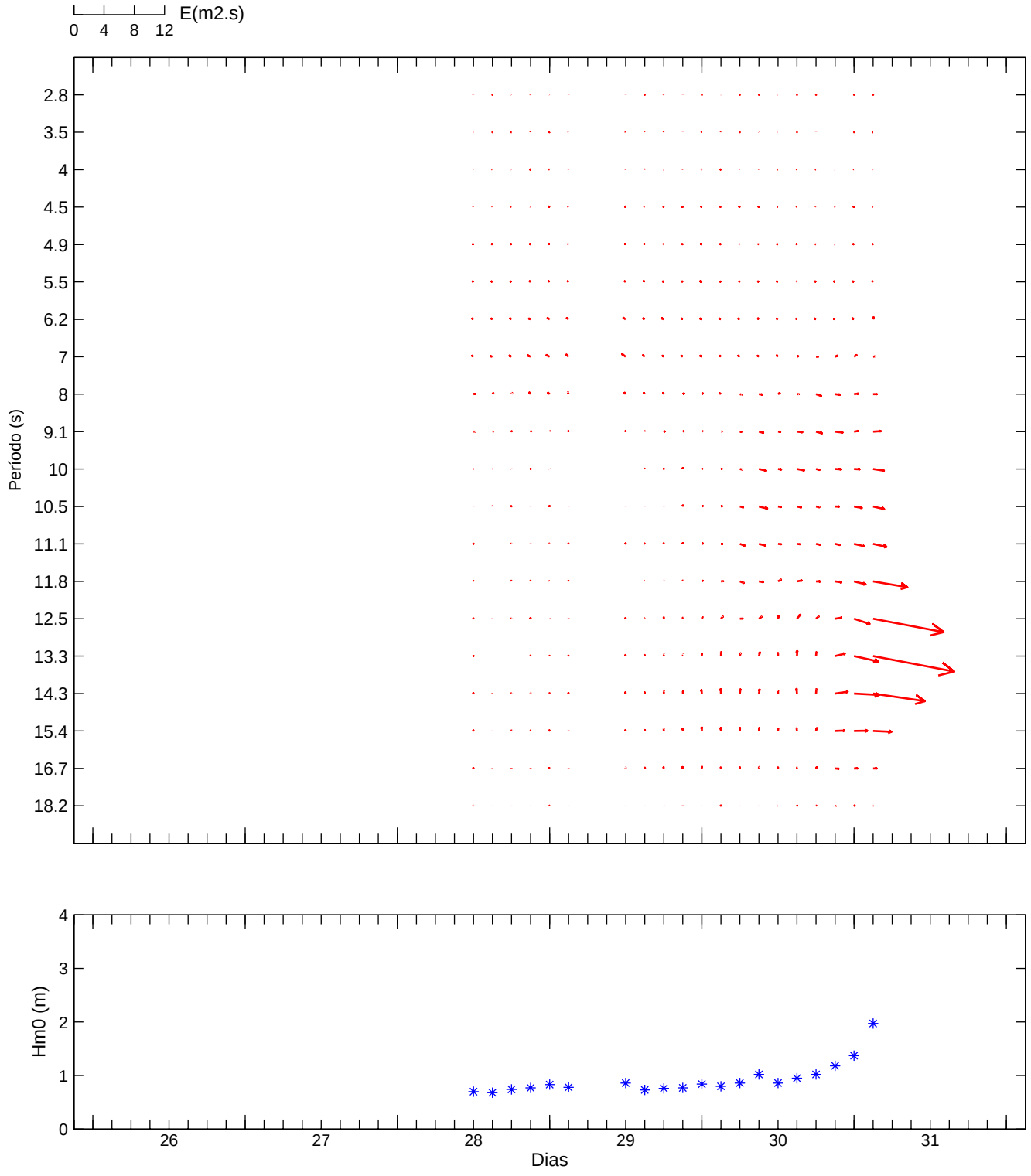
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − SMIGUEL 2006 AGO 21−25



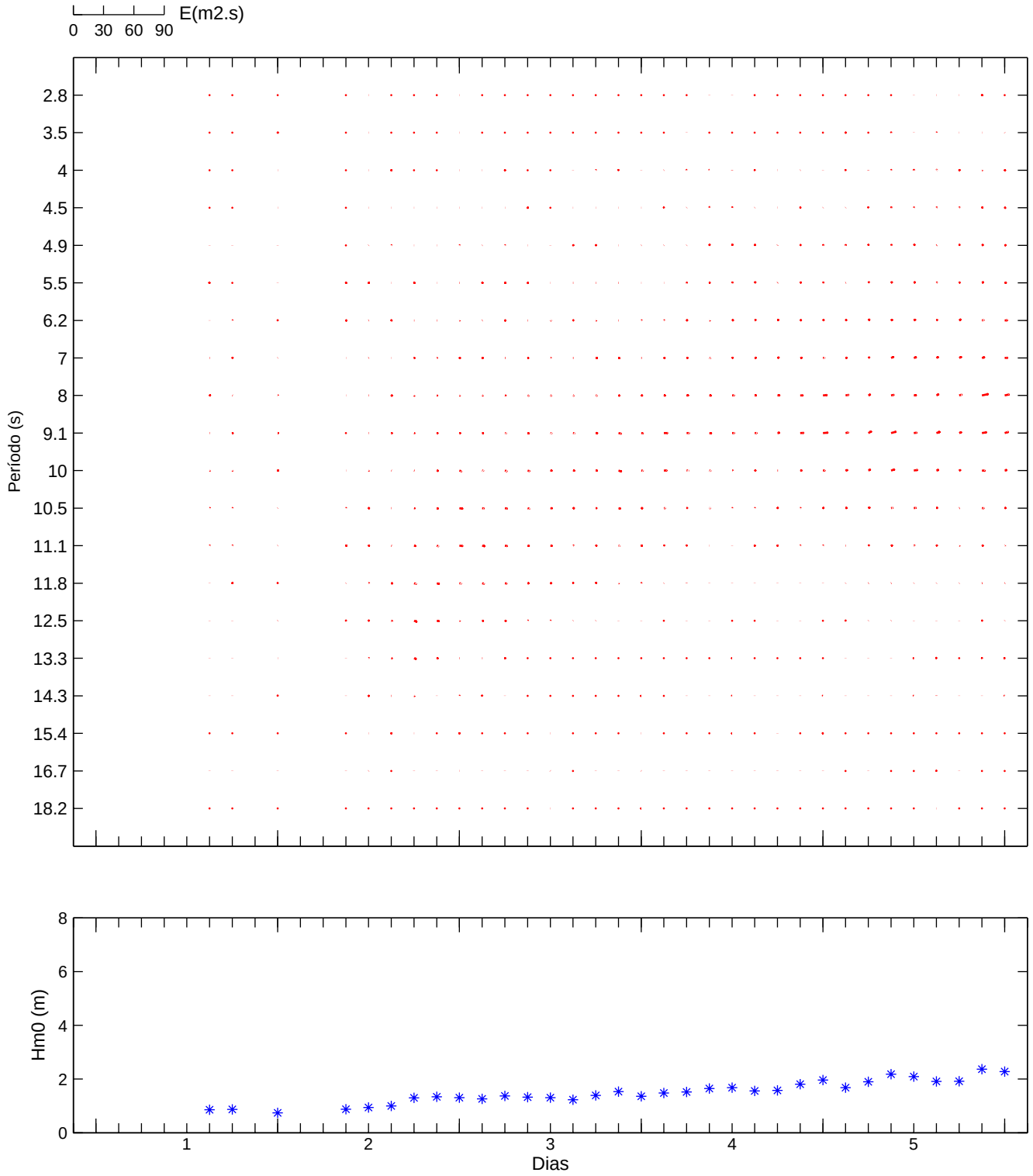
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − SMIGUEL 2006 AGO 26−31



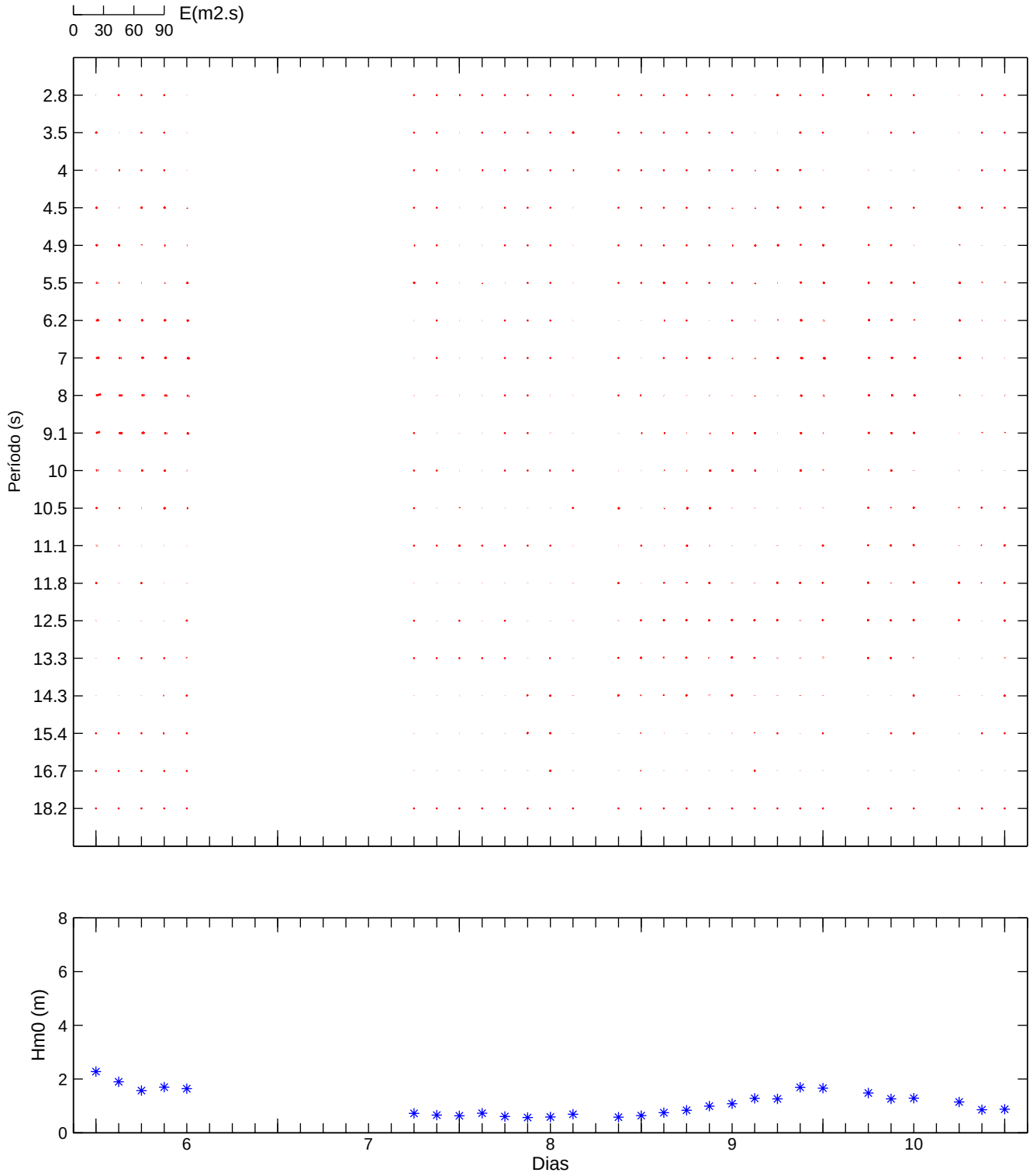
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − SMIGUEL 2006 SET 1−5



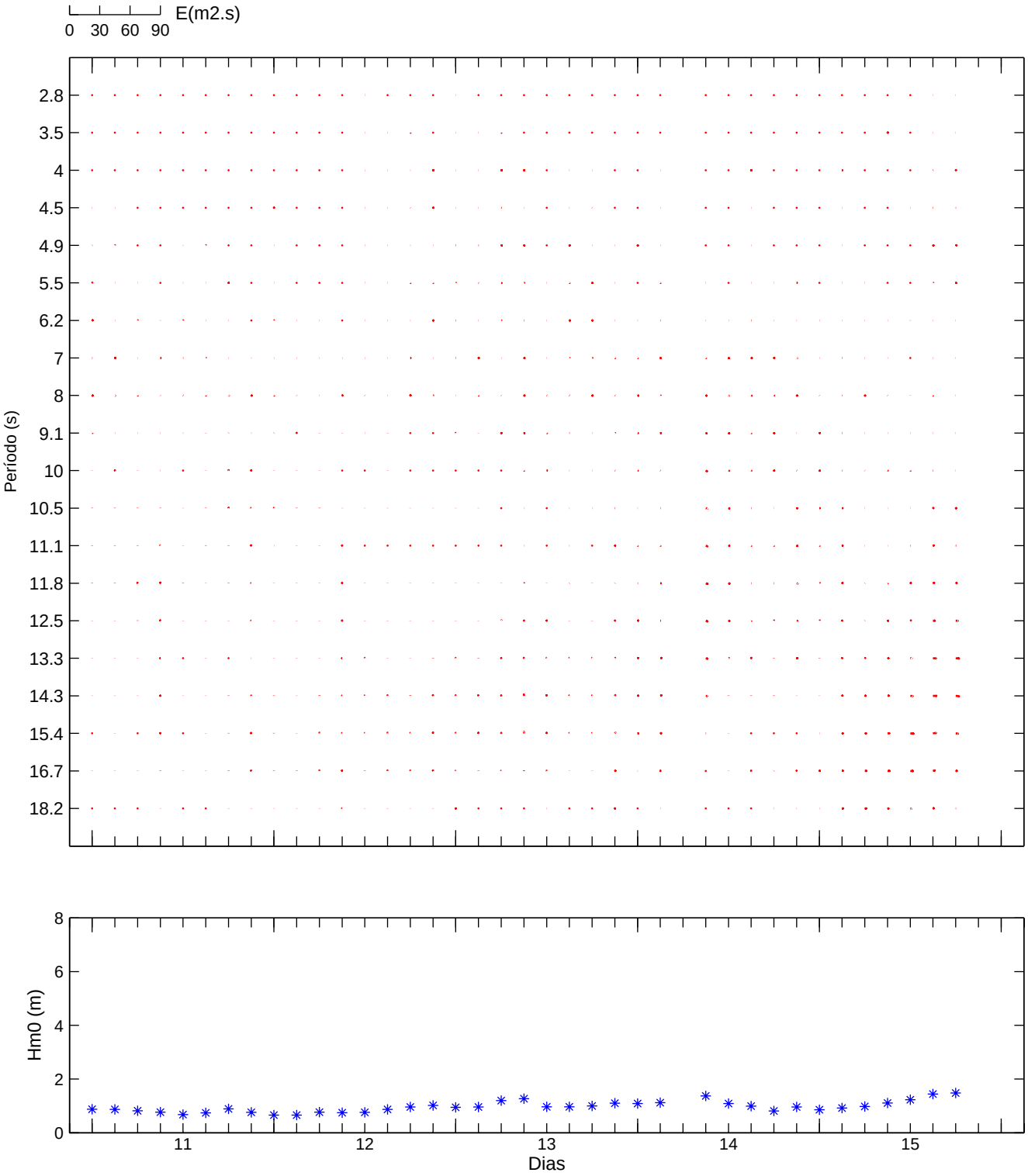
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − SMIGUEL 2006 SET 6−10



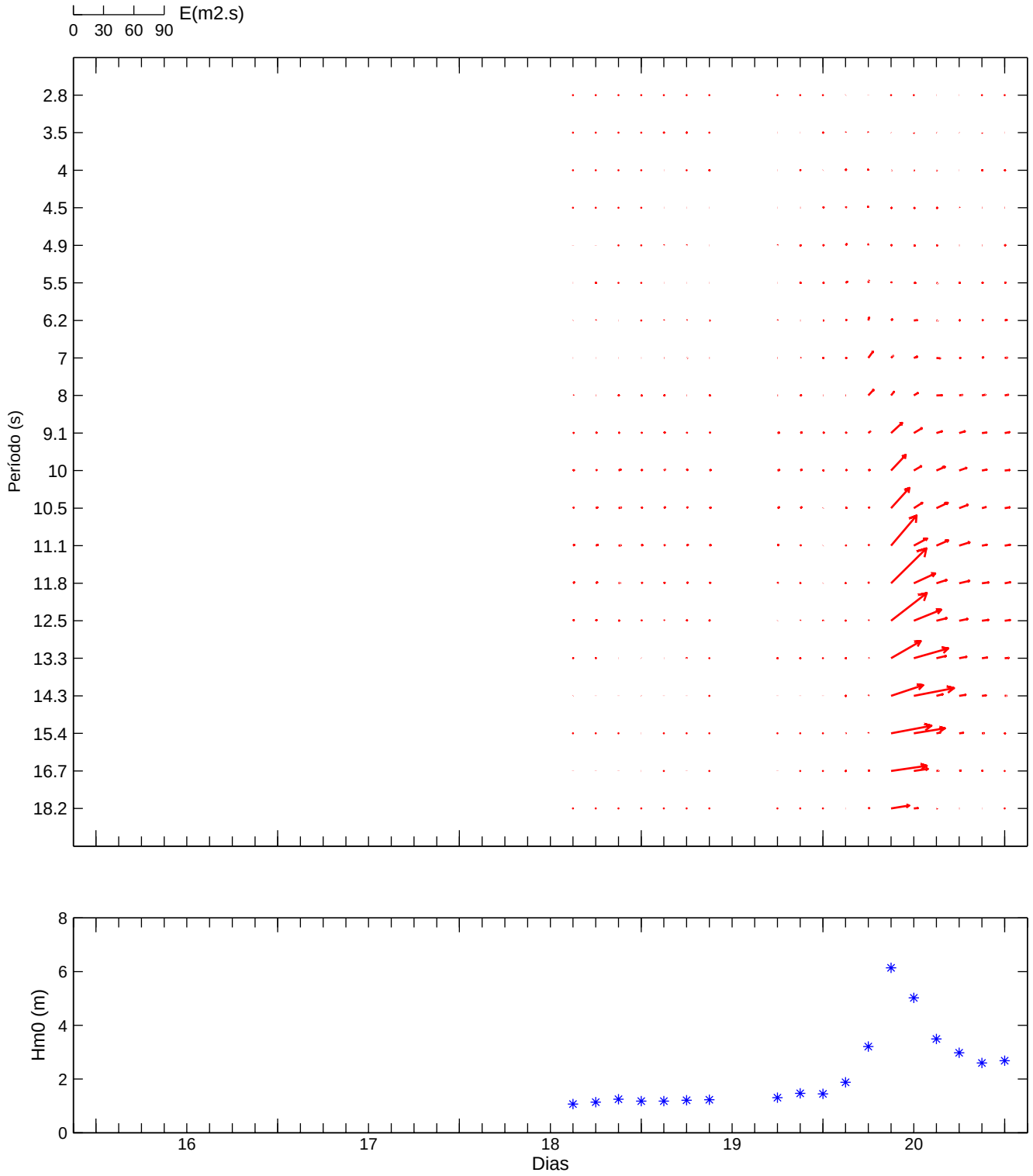
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − SMIGUEL 2006 SET 11−15



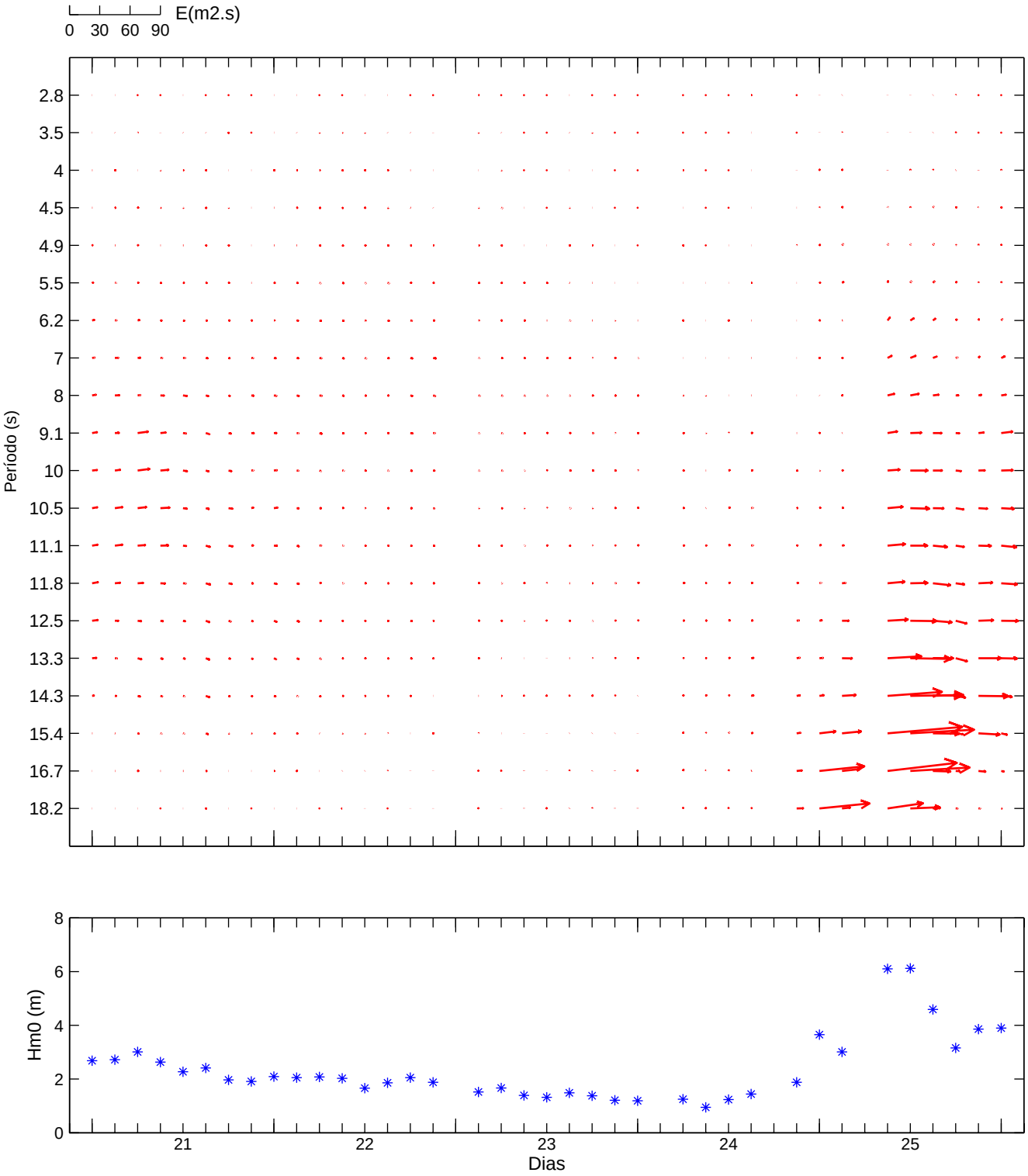
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − SMIGUEL 2006 SET 16−20



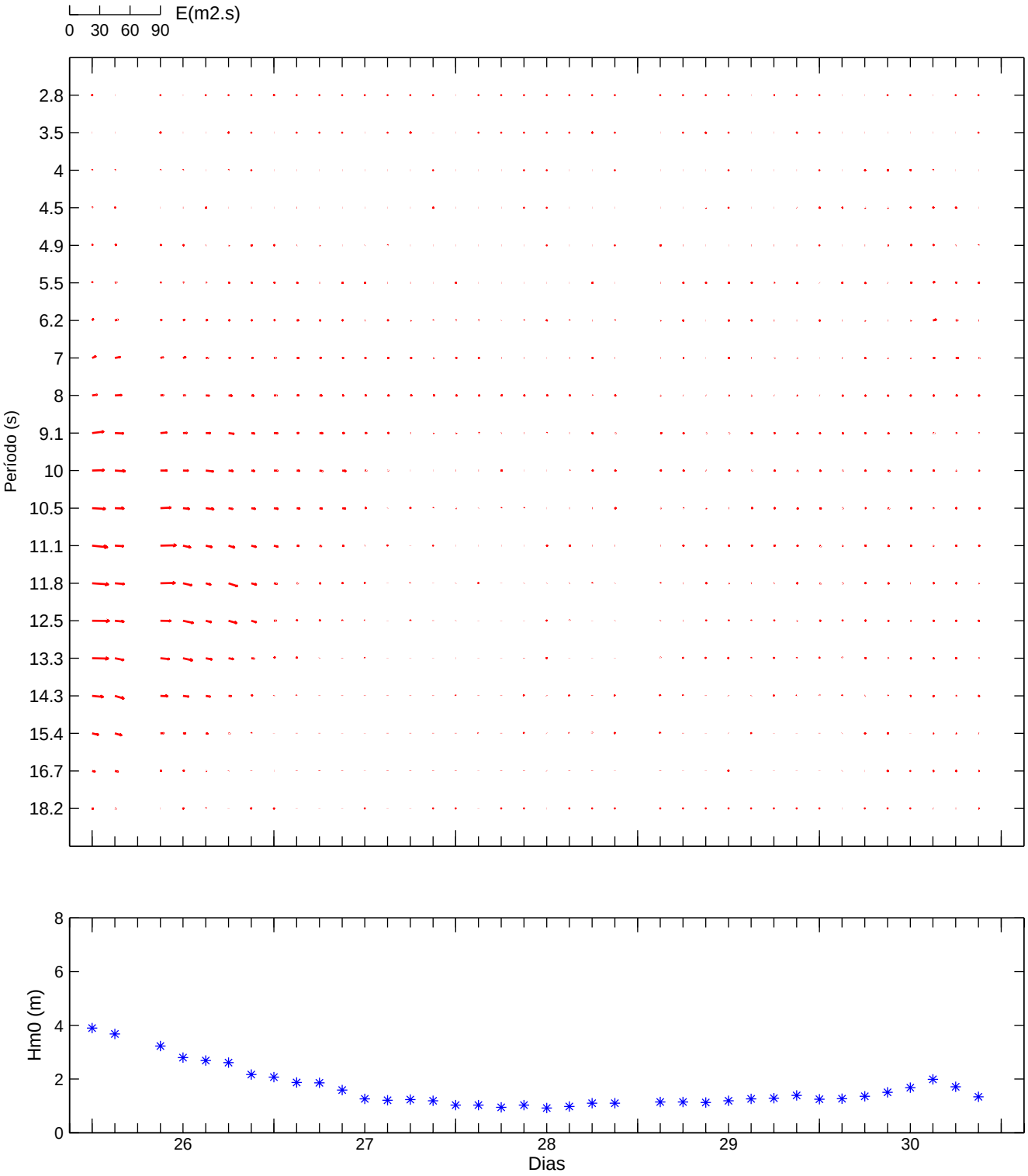
EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − SMIGUEL 2006 SET 21−25



EVOLUÇÃO TEMPORAL DA DISTRIBUIÇÃO DE ENERGIA E DA DIRECÇÃO MÉDIA

POR BANDA DE FREQUÊNCIA − SMIGUEL 2006 SET 26−30

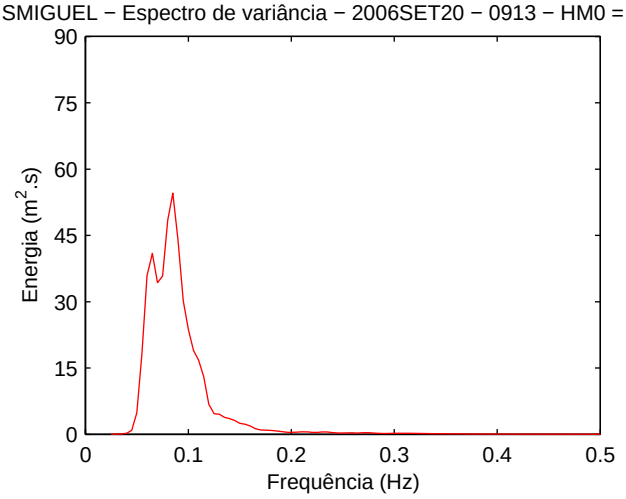


ANEXO H

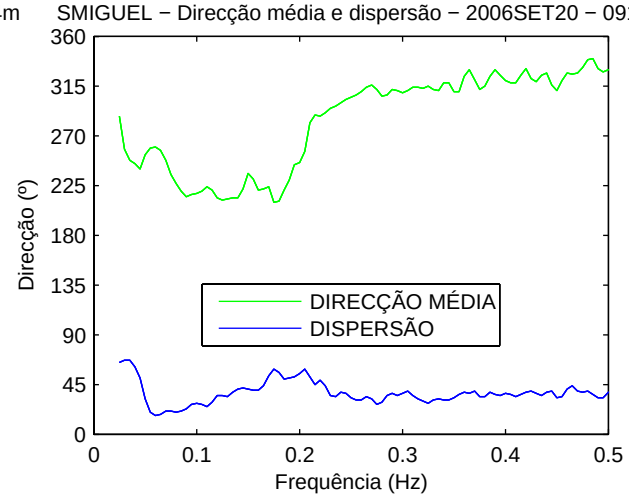
Gráficos de distribuição de energia, direcção média e dispersão,
para os registos em que HM0 ≥ 4.0metros

NOTA: Nos meses de Julho e Agosto não se verificaram nenhumas ocorrências de HM0 ≥ 4.0 metros.

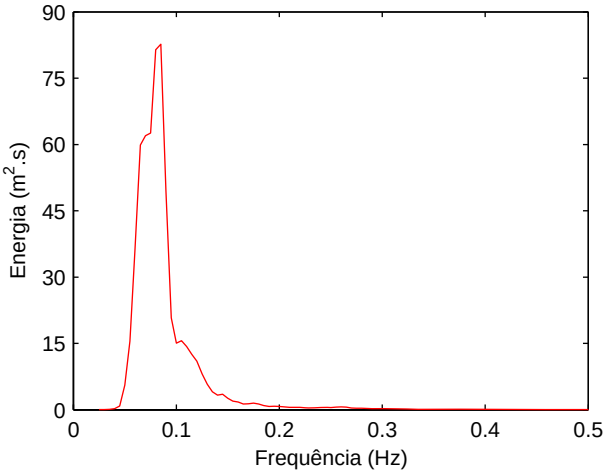
SMIGUEL − Espectro de variância − 2006SET20 − 0913 − HM0 = 6.14m



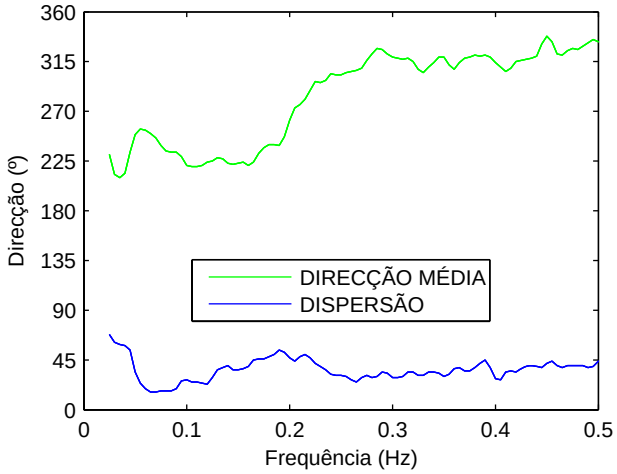
SMIGUEL − Direcção média e dispersão − 2006SET20 − 0913



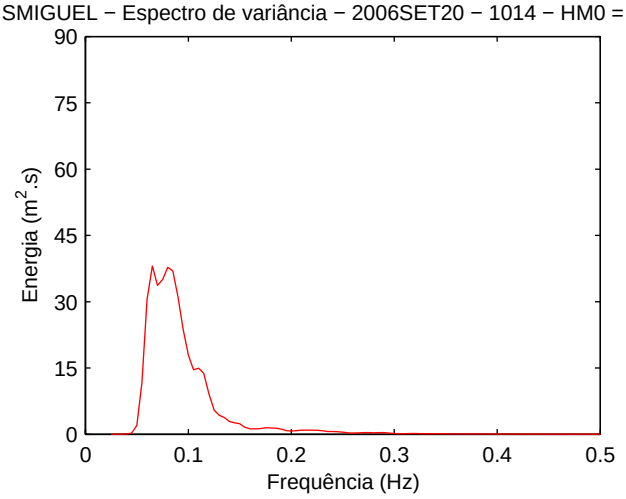
SMIGUEL − Espectro de variância − 2006SET20 − 0944 − HM0 = 6.91m



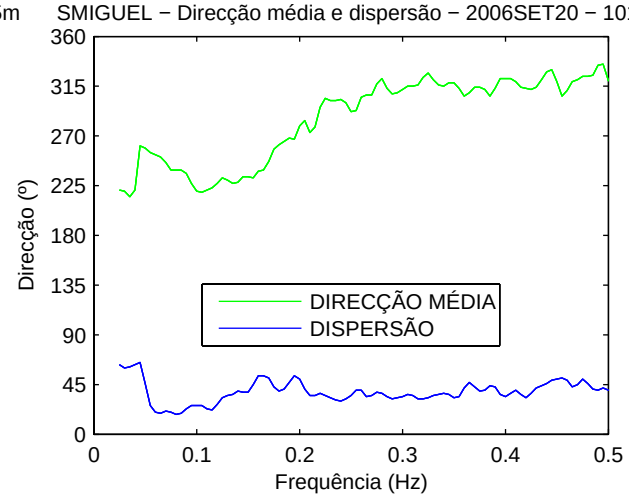
SMIGUEL − Direcção média e dispersão − 2006SET20 − 0944



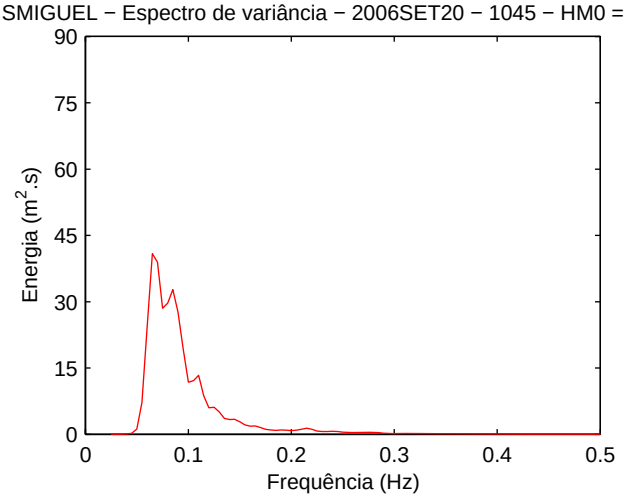
SMIGUEL − Espectro de variância − 2006SET20 − 1014 − HM0 = 5.65m



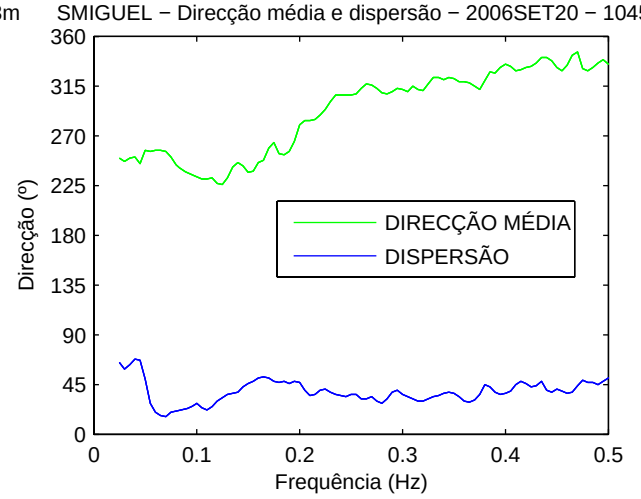
SMIGUEL − Direcção média e dispersão − 2006SET20 − 1014



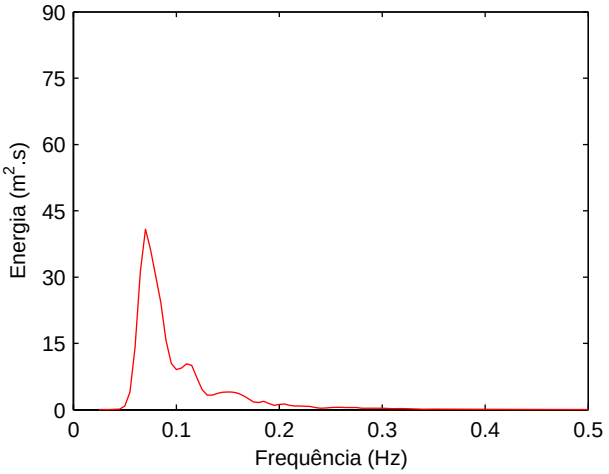
SMIGUEL − Espectro de variância − 2006SET20 − 1045 − HM0 = 5.33m



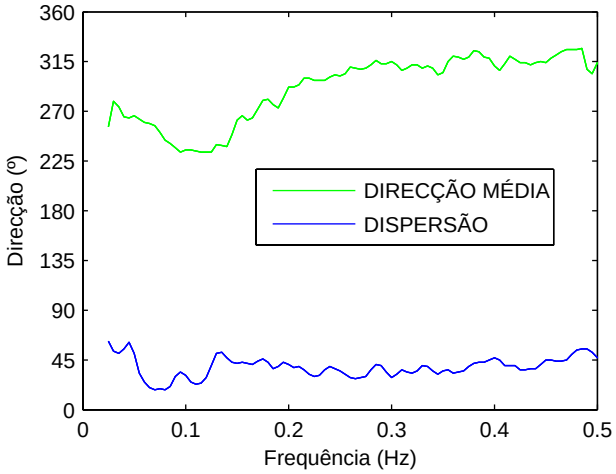
SMIGUEL − Direcção média e dispersão − 2006SET20 − 1045



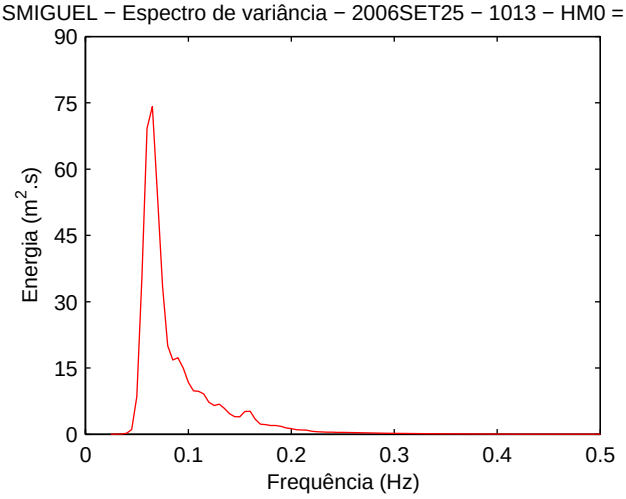
SMIGUEL − Espectro de variância − 2006SET20 − 1135 − HM0 = 5.02m



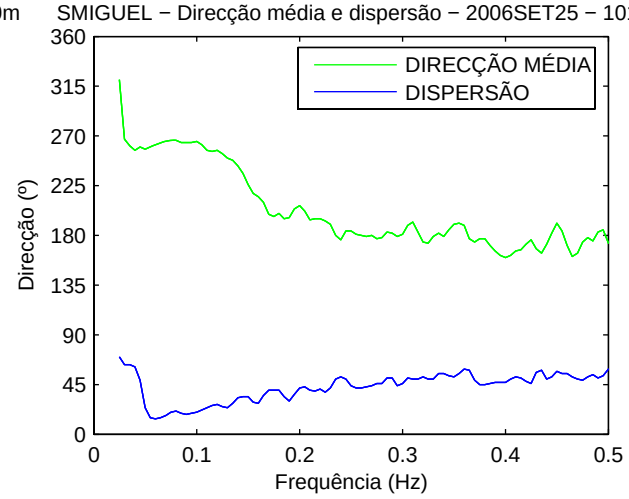
SMIGUEL − Direcção média e dispersão − 2006SET20 − 1135



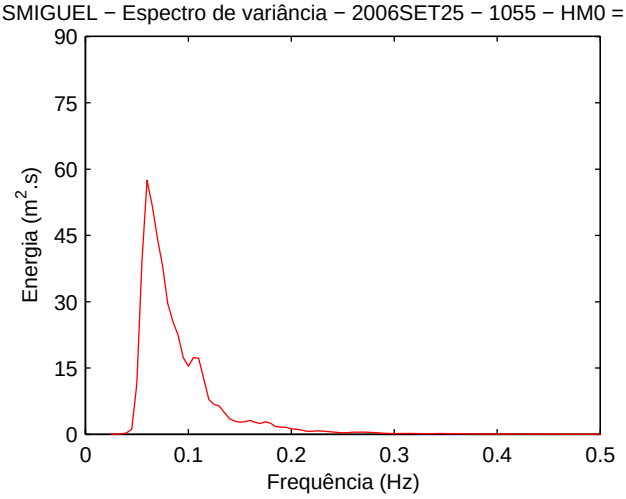
SMIGUEL − Espectro de variância − 2006SET25 − 1013 − HM0 = 6.10m



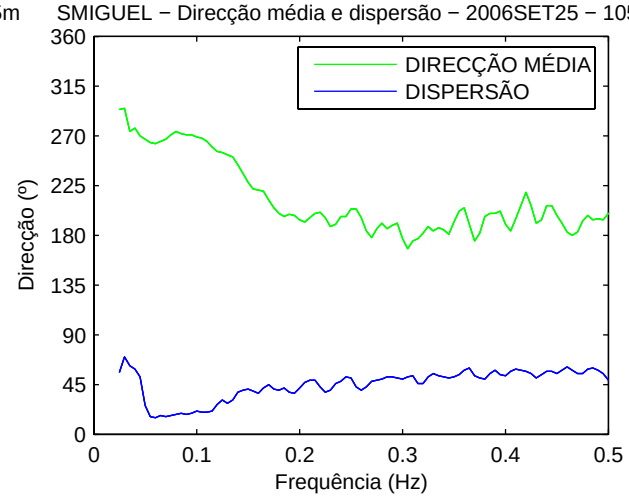
SMIGUEL − Direcção média e dispersão − 2006SET25 − 1013



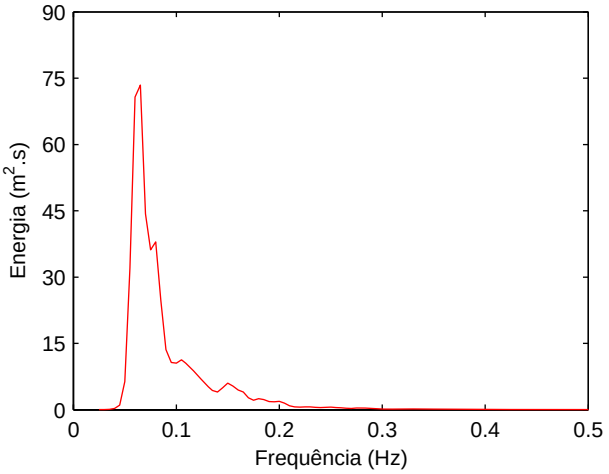
SMIGUEL − Espectro de variância − 2006SET25 − 1055 − HM0 = 6.15m



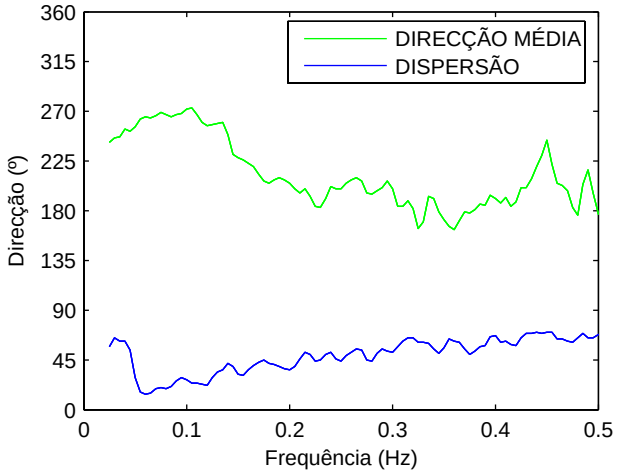
SMIGUEL − Direcção média e dispersão − 2006SET25 − 1055



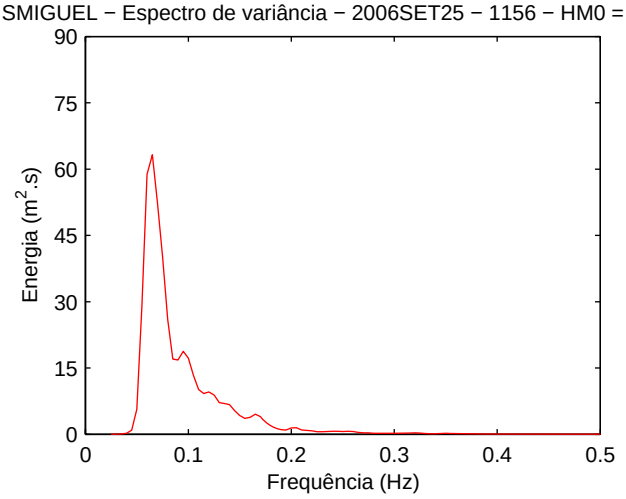
SMIGUEL − Espectro de variância − 2006SET25 − 1125 − HM0 = 6.16m



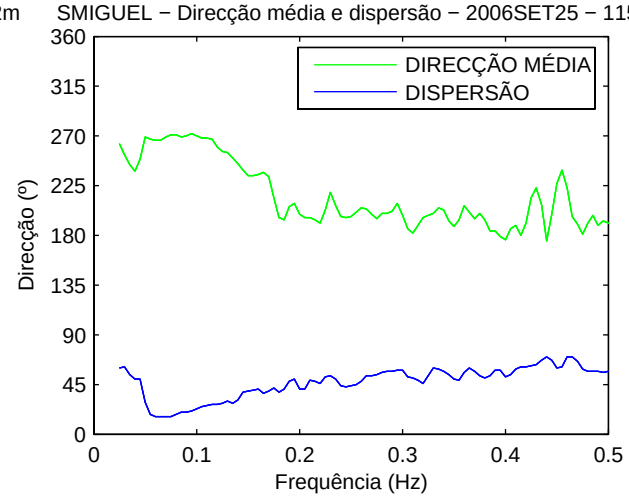
SMIGUEL − Direcção média e dispersão − 2006SET25 − 1125



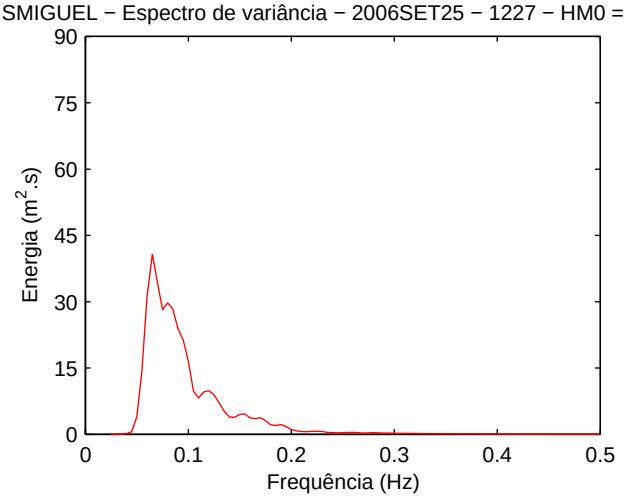
SMIGUEL − Espectro de variância − 2006SET25 − 1156 − HM0 = 6.12m



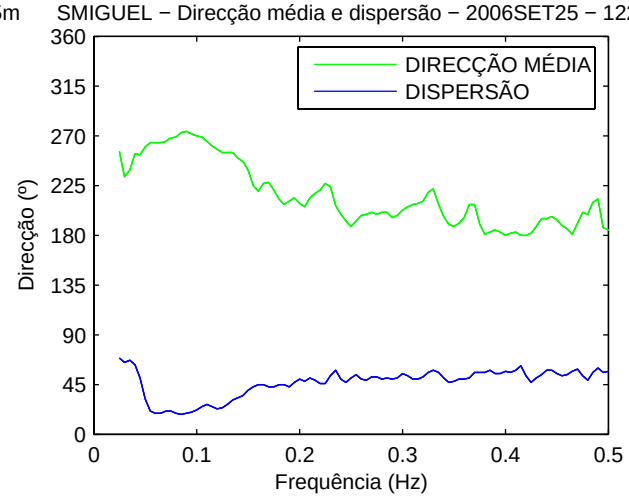
SMIGUEL − Direcção média e dispersão − 2006SET25 − 1156



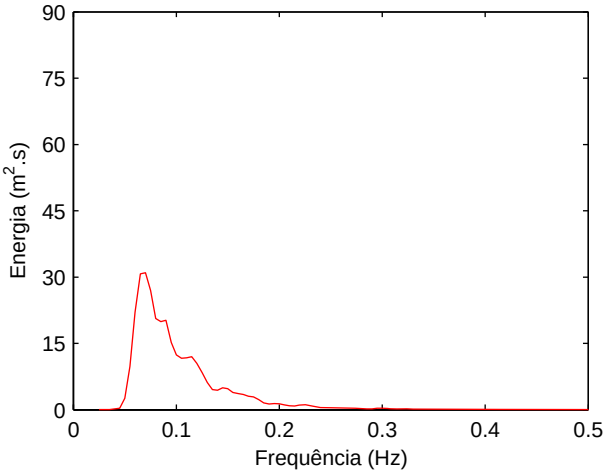
SMIGUEL − Espectro de variância − 2006SET25 − 1227 − HM0 = 5.55m



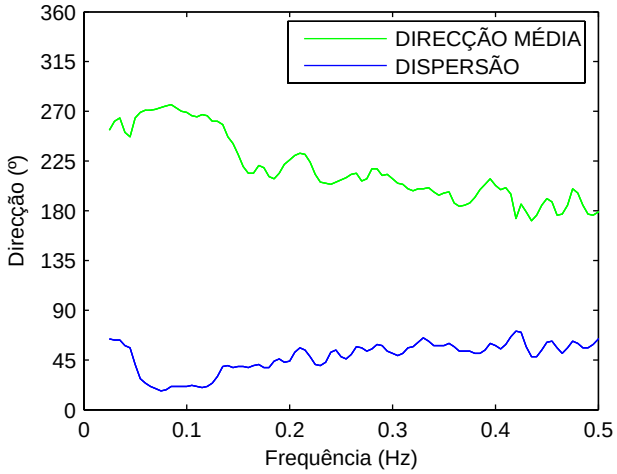
SMIGUEL − Direcção média e dispersão − 2006SET25 − 1227



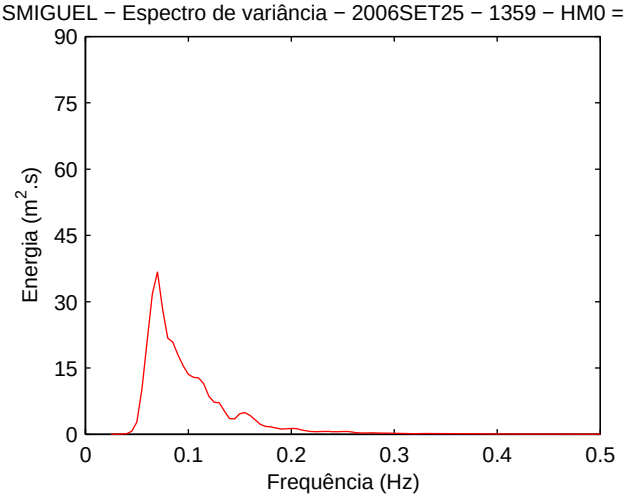
SMIGUEL − Espectro de variância − 2006SET25 − 1318 − HM0 = 5.14m



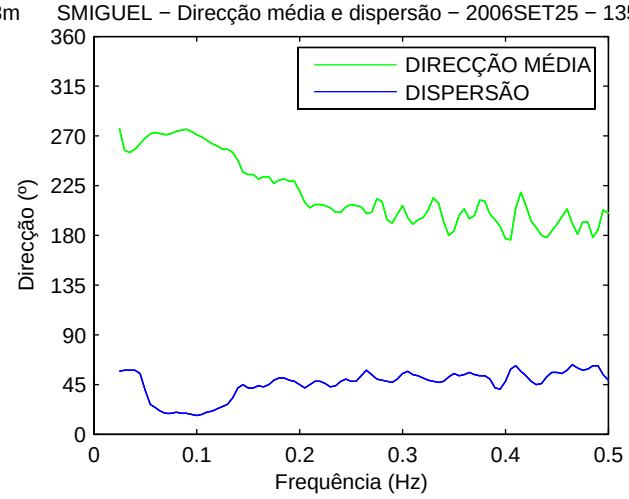
SMIGUEL − Direcção média e dispersão − 2006SET25 − 1318



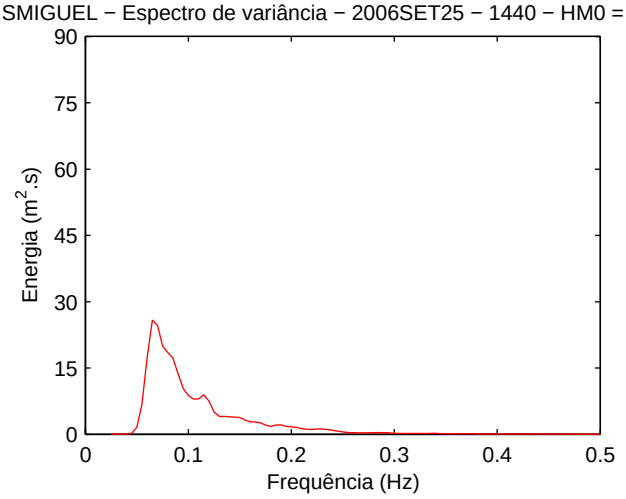
SMIGUEL − Espectro de variância − 2006SET25 − 1359 − HM0 = 5.18m



SMIGUEL − Direcção média e dispersão − 2006SET25 − 1359



SMIGUEL − Espectro de variância − 2006SET25 − 1440 − HM0 = 4.59m



SMIGUEL − Direcção média e dispersão − 2006SET25 − 1440