

INSTITUTO GEOFÍSICO DA UNIVERSIDADE DE COIMBRA

Observações Meteorológicas,
Magnéticas e Sismológicas

ANO DE 1976

3.ª Parte—OBSERVAÇÕES SISMOLÓGICAS

VOLUME CXV



I.G.U.C.

1980

COLLETTA SISMOLÓGICA
ANNO 1976

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VOLUME CVI



I.G.F.C.

1983

ESTACÃO DE COIMBRA

BOLETIM SISMOLOGICO

ANO 1976

1. ENDEREÇO-ADDRESS

Instituto Geofisico da Universidade de Coimbra
Av. Dias da Silva
300 Coimbra - PORTUGAL

2. ESTACÃO SISMOGRÁFICA DE COIMBRA (COI)

Latitude: $40^{\circ} 12' 25''$ N Altitude: 140 metros
Longitude: $08^{\circ} 25' 30''$ W Sub-solo: Arenitos triássicos

3. SISMÓGRAFOS

Geotech CP-Z,N,E	$T_s = 1s$	Grenet CPG-Z	$T_g = 0.75s$	$T_s = 1.4s$
Geotech LP-Z	$T_s = 15s$	Wiechert LPW-Z	$T_g = 1.5s$	$T_s = 5.3s$

O periodo $T(s)$ lido entre os três primeiros ciclos iniciais, a contracção C e a dilatação D referem-se à componente vertical do periodo curto (Z-CP).

The period $T(s)$, the compression C and the dilatation D are measured from short period vertical (Z-CP).

4. ABREVIATURAS

GS United States Geological Survey - Washington
IS Seccion de Sismologia e Ingenieria Sismica - Madrid
SP Service de Physique du Globe - Rabat
IN Instituto Nacional de Meteorologia e Geofisica - Lisboa
UC Instituto Geofisico da Universidade - Coimbra

PERIODO SOLO

0.1

SEGUNDOS

ADREV

A-CP-Z,N,E

B-P-Z

BOLETIM FISIOLÓGICO
ANO 1978

1. ENDERGO-ADDRESS

Instituto Geológico da Universidade de Coimbra
Av. das Oliveiras
300 Coimbra - PORTUGAL

2. ESTAÇÃO SINÓGRAFICA DE COIMBRA (COI)

Latitude: 40° 12' 25" N Altitude: 140 metros
Longitude: 08° 22' 30" W Horário: Horário Fisiológico

3. SÍMBOLOS

Geotach CP-2, N.E. T=1.0 Geotach CP-2 T=0.75 T=1.0
Geotach LP-2 T=1.0 Geotach LP-2 T=1.0 T=2.0

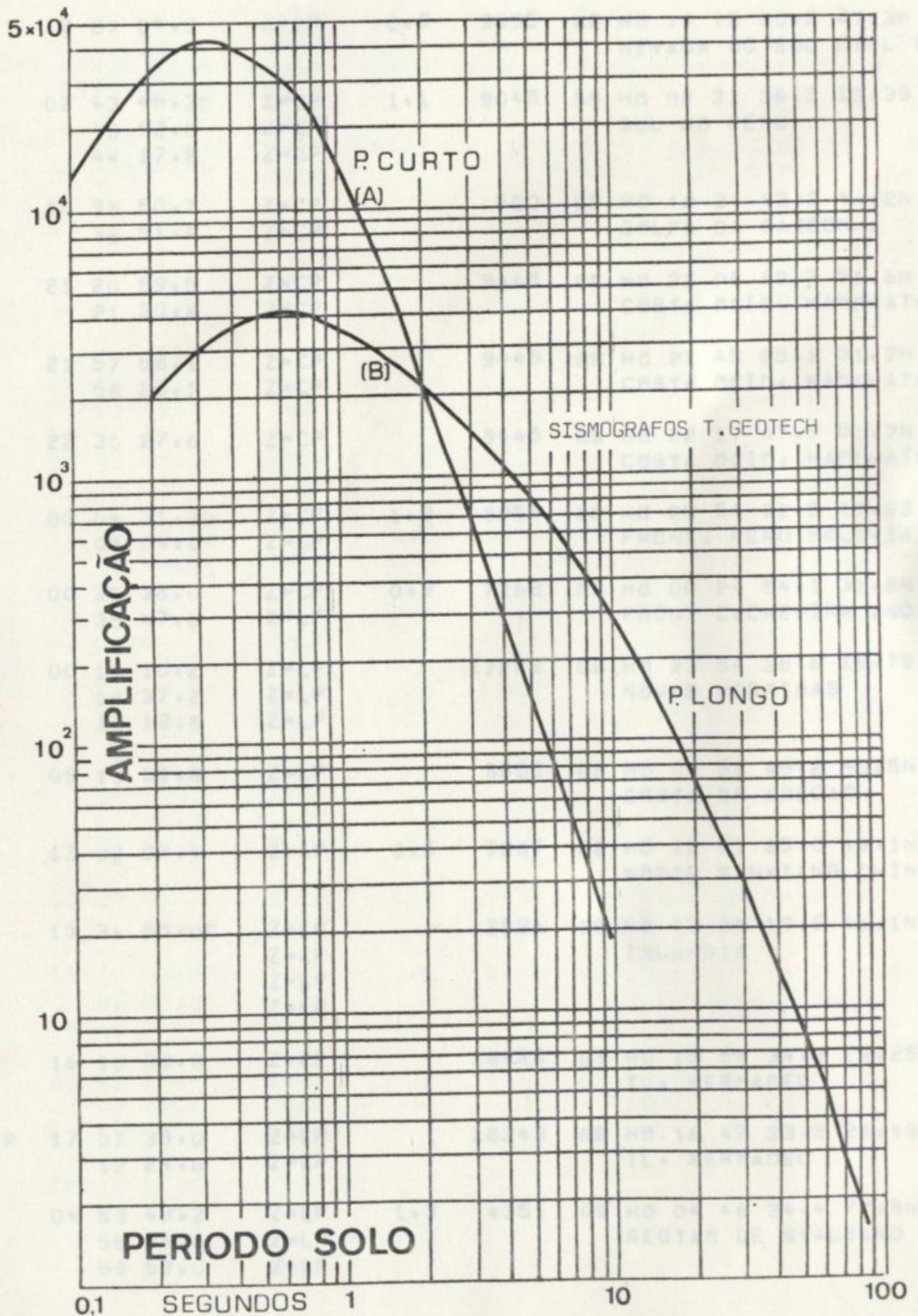
ii período T(a) não ocorre as três primeiras curvas iniciais, com
tração C e a tração D rotaciona-se à componente vertical do pa-
rabo curto (2-CP).

The period T(a), the compression C and the dilation D are mean-
red from about period vertical (2-CP).

4. REFERÊNCIAS

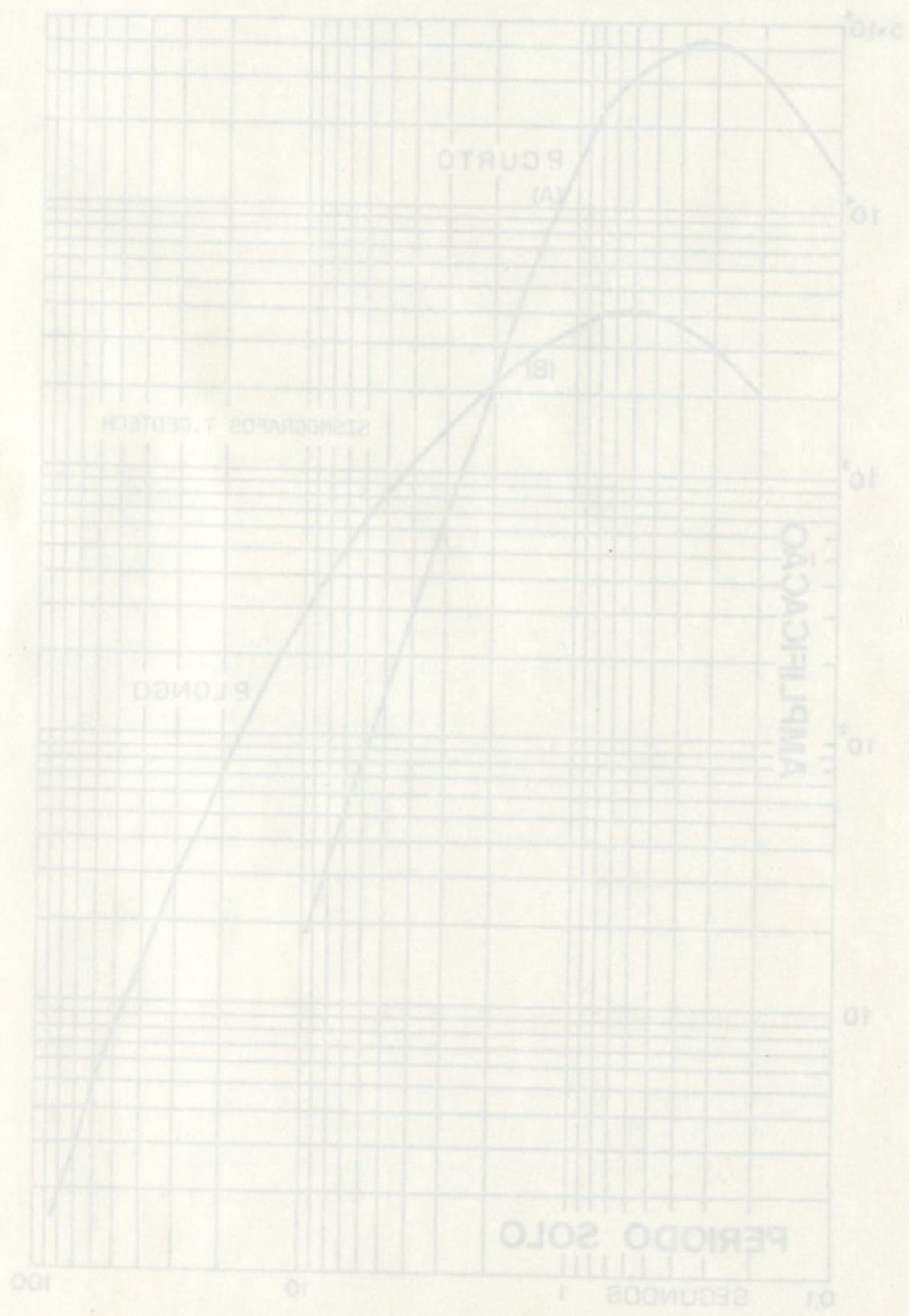
- US Weather Service (Geological Survey) - Washington
- IS Seccion de Sinógrafia e Inguiería Sísmica - Madrid
- SP Service de Physique du Globe - Rabat
- IN Instituto Nacional de Pesquisas Geológicas e Geográficas - Lisboa
- UC Instituto Geológico da Universidade de Coimbra

ESTAÇÃO DE COIMBRA



ABREV.
A: CP-Z,N,E B: LP-Z

ESTAÇÃO DE COIMBRA



ABREY
A-CP-2NE B-LP-2

DIA	FASE	HORA-TMG	COMP-APAR	T(S)	DIST-KM	REFERENCIAS
01	IPKP IPP ISS LM	01 49 39.60 54 35.6 02 13 29.2 03 46.2	Z-CP Z-LP Z-LP Z-LP	1.0	18360	GS H0 01 29 39.6 28.6S 177.6W ILHAS KERMADEK
03	IP	19 27 04.3	Z-CP	0.9	9095	GS H0 19 15 00.2 37.3N 116.3W NEVADA DO SUL EXPL SUBT
05	IP IPCP I	02 43 45.30 43 53.8 44 17.8	Z-CP Z-CP Z-CP	1.1	9045	GS H0 02 31 36.3 13.3S 74.9W SUL DO PERU
05	EPN ISN	10 35 50.7 36 51.4	Z-CP Z-CP		500	SP H0 10 34 43.2 44.2N 8.0W GOLF0 DA GASC0NHA
06	EP EI	21 20 59.5 21 20.8	Z-CP Z-CP		9445	GS H0 21 08 19.3 51.6N 159.3E COSTA OCID. KAMCHATKA
06	EP EI	21 57 58.1 58 20.7	Z-CP Z-CP		9445	GS H0 21 45 25.1 51.7N 159.2E COSTA OCID. KAMCHATKA
06	EP	22 30 27.6	Z-CP		9445	GS H0 22 17 47.9 51.7N 159.1E COSTA OCID. KAMCHATKA
07	EIP EI	00 06 31.30 07 04.0	Z-CP Z-CP	1.3	8954	GS H0 23 54 22.2 17.2S 69.5W FRONT. PERU BOLIVIA
07	EIP I+P	00 35 38.0 35 47.6	Z-CP Z-LP	0.9	7262	GS H0 00 24 54.1 32.8N 75.7E FRONT CACHEMIRA INDIA
10	EPKP I IPP	00 14 10.2 14 37.2 18 12.8	Z-LP Z-LP Z-LP		17242	GS H0 23 54 35.6 15.7S 167.9E NOVAS HEBRIDAS
10	EP	09 10 51.8	Z-LP		8858	GS H0 08 58 45.2 43.5N 127.4W COSTA DO OREGAO
10	EP	13 02 08.4	Z-CP	0.8	7267	GS H0 12 51 25.0 42.1N 83.4E NORTE SINKIANG CHINA
13	IP IPP IS LM	13 34 55.00 15 26 02.80 26 07.0	Z-LP Z-LP Z-LP Z-LP		2926	GS H0 13 29 19.5 66.1N 16.6W ISLANDIA
14	EPKP	16 16 33.8	Z-CP		18428	GS H0 15 56 34.9 29.2S 177.9W IL. KERMADEC
14	EIPKP IPP	17 07 39.0 12 24.6	Z-CP Z-CP		18343	GS H0 16 47 33.5 28.4S 177.6W IL. KERMADEC
18	EP IPP ES	04 53 49.3 55 58.0 59 59.0	Z-LP Z-LP Z-LP	1.3	4351	GS H0 04 46 24.4 77.8N 18.6E REGIAO DE SVALBARD

18	IP	15 15 28.9C	Z=CP	1.2	2475	GS HB 15 10 32.7 38.9N 20.6E
	LM	15 28.1	Z=LP			GRECIA
21	IP	10 18 35.6D	Z=CP	1.0	10268	GS HB 10 05 24.1 44.9N 149.1E
	IPCP	18 43.0	Z=CP			IL. KURILHAS
	LM	10 47.5	Z=LP			
23	IPKIKP	06 03 21.3D	Z=CP	1.3	13708	GS HB 05 45 30.5 7.5S 119.9E
						MAR DAS FLORES
24	EPKP	22 08 24.8	Z=LP		18360	GS HB 21 48 25.9 28.6S 177.6W
	EPKP2	09 21.0	Z=LP			IL. KERMADEC
	IPP	13 09.0	Z=LP			

25	IP	10 18 35.6D	Z=CP	1.0	10268	GS HB 10 05 24.1 44.9N 149.1E
	IPCP	18 43.0	Z=CP			IL. KURILHAS
	LM	10 47.5	Z=LP			
26	IPKIKP	06 03 21.3D	Z=CP	1.3	13708	GS HB 05 45 30.5 7.5S 119.9E
						MAR DAS FLORES
27	EPKP	22 08 24.8	Z=LP		18360	GS HB 21 48 25.9 28.6S 177.6W
	EPKP2	09 21.0	Z=LP			IL. KERMADEC
	IPP	13 09.0	Z=LP			
28	IP	10 18 35.6D	Z=CP	1.0	10268	GS HB 10 05 24.1 44.9N 149.1E
	IPCP	18 43.0	Z=CP			IL. KURILHAS
	LM	10 47.5	Z=LP			
29	IPKIKP	06 03 21.3D	Z=CP	1.3	13708	GS HB 05 45 30.5 7.5S 119.9E
						MAR DAS FLORES
30	EPKP	22 08 24.8	Z=LP		18360	GS HB 21 48 25.9 28.6S 177.6W
	EPKP2	09 21.0	Z=LP			IL. KERMADEC
	IPP	13 09.0	Z=LP			
31	IP	10 18 35.6D	Z=CP	1.0	10268	GS HB 10 05 24.1 44.9N 149.1E
	IPCP	18 43.0	Z=CP			IL. KURILHAS
	LM	10 47.5	Z=LP			
32	IPKIKP	06 03 21.3D	Z=CP	1.3	13708	GS HB 05 45 30.5 7.5S 119.9E
						MAR DAS FLORES
33	EPKP	22 08 24.8	Z=LP		18360	GS HB 21 48 25.9 28.6S 177.6W
	EPKP2	09 21.0	Z=LP			IL. KERMADEC
	IPP	13 09.0	Z=LP			
34	IP	10 18 35.6D	Z=CP	1.0	10268	GS HB 10 05 24.1 44.9N 149.1E
	IPCP	18 43.0	Z=CP			IL. KURILHAS
	LM	10 47.5	Z=LP			
35	IPKIKP	06 03 21.3D	Z=CP	1.3	13708	GS HB 05 45 30.5 7.5S 119.9E
						MAR DAS FLORES
36	EPKP	22 08 24.8	Z=LP		18360	GS HB 21 48 25.9 28.6S 177.6W
	EPKP2	09 21.0	Z=LP			IL. KERMADEC
	IPP	13 09.0	Z=LP			
37	IP	10 18 35.6D	Z=CP	1.0	10268	GS HB 10 05 24.1 44.9N 149.1E
	IPCP	18 43.0	Z=CP			IL. KURILHAS
	LM	10 47.5	Z=LP			
38	IPKIKP	06 03 21.3D	Z=CP	1.3	13708	GS HB 05 45 30.5 7.5S 119.9E
						MAR DAS FLORES
39	EPKP	22 08 24.8	Z=LP		18360	GS HB 21 48 25.9 28.6S 177.6W
	EPKP2	09 21.0	Z=LP			IL. KERMADEC
	IPP	13 09.0	Z=LP			
40	IP	10 18 35.6D	Z=CP	1.0	10268	GS HB 10 05 24.1 44.9N 149.1E
	IPCP	18 43.0	Z=CP			IL. KURILHAS
	LM	10 47.5	Z=LP			
41	IPKIKP	06 03 21.3D	Z=CP	1.3	13708	GS HB 05 45 30.5 7.5S 119.9E
						MAR DAS FLORES
42	EPKP	22 08 24.8	Z=LP		18360	GS HB 21 48 25.9 28.6S 177.6W
	EPKP2	09 21.0	Z=LP			IL. KERMADEC
	IPP	13 09.0	Z=LP			

DIA	FASE	HORA-TMG	COMP=APAR	T(S)	DIST=KM	REFERENCIAS
03	EP I	16 48 31.0 48 50.0	Z-CP Z-CP		4729	GS H0 16 40 40.6 39.9N 48.4E FRONT IRAO URSS
04	IP	00 10 31.2D	Z-CP	1.4	9426	GS H0 23 57 54.9 54.5N 161.9E COSTA ORI. KAMCHATKA
04	EP IPP IPCP	09 13 18.7 13 30.2 13 50.0	Z-CP Z-CP Z-CP		8120	GS H0 09 01 43.4 15.3N 89.1W GUATEMALA
	IS ISS L	23 03.2 27 35.0 09 32.7	Z-LP Z-LP Z-LP			
05	EP	10 05 29.6	Z-CP		9236	GS H0 09 53 11.7 21.7S 68.2W FRONT. CHILE BOLIVIA
06	EP	18 31 01.8	Z-CP		8285	GS H0 18 19 17.9 14.7N 90.6W GUATEMALA
09	EPN ISN	05 29 57.0 31 18.3	Z-CP Z-CP			
12	IP I	14 57 03.0C 57 15.2	Z-CP Z-CP	0.7	8694	GS H0 14 45 00.2 37.3N 116.5W SUL DO NEVADA EXPL SUBT
14	IP I	11 42 02.8C 42 04.8	Z-CP Z-LP	0.5	8694	GS H0 11 30 00.2 27.2N 116.4W SUL DO NEVADA EXPL SUBT
15	EIPP LM	02 13 44.4 03 04.0	Z-LP Z-LP		12425	GS H0 01 54 23.1 13.0N 125.8E IL. FILIPINAS
21	IPN ISN	02 53 14.9D 53 32.3	Z-CP ZE-CP		150	IN H0 02 52 51.0 41.2N 7.2W A NORTE DO MINHO
21	EPN EPG ESN ISG	16 53 06.3 53 13.0 53 35.3 53 46.0	Z-CP Z-CP E-CP E-CP		289	IN H0 16 52 30.0 42.6N 7.1W NORTE DE ESPANHA
22	EP	12 08 01.7	Z-CP	0.9	2587	GS H0 12 02 54.8 32.5N 22.2E GRECIA
23	EIP I LM	15 26 02.8D 26 07.0 15 57.5	Z-CP Z-CP Z-LP	1.0	8364	GS H0 15 14 16.0 51.5N 130.4W IL. RAINHA CARLOTA
27	EP IPCP I	03 48 24.7 48 29.8 49 04.0	Z-CP Z-CP Z-CP	1.3	9111	GS H0 03 36 13.6 19.5S 69.1W NORTE DO CHILE
28	EPN ISN	06 18 17.3 18 46.0	Z-CP Z-CP			

REF ID	DATE	TIME	FROM	TO	TYPE	CLASS	REMARKS
014	02	02	02	02	1-CP	1-CP	FRONT, CHILE BOLIVIA
02	02	02	02	02	1-CP	1-CP	FRONT, CHILE BOLIVIA
04	02	02	02	02	1-CP	1-CP	FRONT, CHILE BOLIVIA
08	02	02	02	02	1-CP	1-CP	FRONT, CHILE BOLIVIA
09	02	02	02	02	1-CP	1-CP	FRONT, CHILE BOLIVIA
10	02	02	02	02	1-CP	1-CP	FRONT, CHILE BOLIVIA
11	02	02	02	02	1-CP	1-CP	FRONT, CHILE BOLIVIA
12	02	02	02	02	1-CP	1-CP	FRONT, CHILE BOLIVIA
13	02	02	02	02	1-CP	1-CP	FRONT, CHILE BOLIVIA
14	02	02	02	02	1-CP	1-CP	FRONT, CHILE BOLIVIA
15	02	02	02	02	1-CP	1-CP	FRONT, CHILE BOLIVIA
16	02	02	02	02	1-CP	1-CP	FRONT, CHILE BOLIVIA
17	02	02	02	02	1-CP	1-CP	FRONT, CHILE BOLIVIA
18	02	02	02	02	1-CP	1-CP	FRONT, CHILE BOLIVIA
19	02	02	02	02	1-CP	1-CP	FRONT, CHILE BOLIVIA
20	02	02	02	02	1-CP	1-CP	FRONT, CHILE BOLIVIA
21	02	02	02	02	1-CP	1-CP	FRONT, CHILE BOLIVIA
22	02	02	02	02	1-CP	1-CP	FRONT, CHILE BOLIVIA
23	02	02	02	02	1-CP	1-CP	FRONT, CHILE BOLIVIA
24	02	02	02	02	1-CP	1-CP	FRONT, CHILE BOLIVIA
25	02	02	02	02	1-CP	1-CP	FRONT, CHILE BOLIVIA
26	02	02	02	02	1-CP	1-CP	FRONT, CHILE BOLIVIA
27	02	02	02	02	1-CP	1-CP	FRONT, CHILE BOLIVIA
28	02	02	02	02	1-CP	1-CP	FRONT, CHILE BOLIVIA
29	02	02	02	02	1-CP	1-CP	FRONT, CHILE BOLIVIA
30	02	02	02	02	1-CP	1-CP	FRONT, CHILE BOLIVIA

DIA	FASE	HORA-TMG	COMP-APAR	T(S)	DIST-KM	REFERENCIAS
02	EP EPP	19 46 22.6 46 36.3	Z-CP Z-CP		2364	GS H0 19 41 36.4 40.7N 19.7E ALBANIA
04	IPKP IPKP2 IPP ISKS M	03 09 44.0D 10 07.2 13 44.6 20 07.9 04 19.0	Z-LP Z-LP Z-LP Z-LP Z-LP		17119	GS H0 02 50 00.5 14.7S 167.1E IL. NEVAS HEBRIDAS
06	EIPKP	15 26 06.0	Z-CP	1.3	15987	GS H0 15 06 34.4 7.3S 155.4E IL. SALOMAB
08	EPKP2	20 26 20.5	Z-LP	0.8	16791	GS H0 20 06 33.3 11.8S 166.4E IL. SANTA CRUZ
09	IP	14 12 02.7C	Z-CP	0.4	8682	GS H0 14 00 00.1 37.3N 116.4W SUL DE NEVADA EXPL SUBT
10	IP I M	09 13 56.7C 14 16.2 09 27.5	Z-CP Z-CP Z-LP	1.0	5662	GS H0 09 05 01.1 16.8N 61.1W IL. LEEWARD
11	EP	20 51 08.5	Z-CP		7643	GS H0 20 40 06.1 6.3N 76.0W NORTE DA COLOMBIA
11	EPG ISG	22 03 30.7 03 34.7	Z-CP Z-CP		45	
14	IP I	12 42 02.3C 42 31.4	Z-CP Z-LP	1.8	8689	GS H0 12 30 00.2 37.3N 116.4W SUL DE NEVADA
16	EP	07 38 13.6	Z-CP	1.2	5905	GS H0 07 28 57.6 27.3N 55.0E SUL DE IRAB
16	IPN ISN	18 36 03.3D 36 58.2	Z-CP Z-CP		400	IS H0 18 34 45.0 37.5N 5.3W MAR DE ALBORAB
17	IP	14 27 02.7C	Z-CP	0.7	8677	GS H0 14 15 00.1 37.3N 116.3W SUL DE NEVADA EXPL SUBT
17	IP	14 57 02.0C	Z-CP		8677	GS H0 14 45 00.1 37.1N 116.1W SUL DE NEVADA EXPL SUBT
24	IPKP IPKP2 IPP IPPS ISS L M	05 06 11.0C 07 12.0 11 06.0 24 52.0 30 42.0 06 10.5 06 26.5	Z-CP Z-LP Z-LP Z-LP Z-LP Z-LP Z-LP	1.2	18489	GS H0 04 46 04.4 29.9S 177.9W IL. KERMADEC
25	EP LM	22 28 36.8 22 59.2	Z-LP Z-LP		9245	GS H0 22 16 10.6 1.2N 90.6W IL. GALAPAGOS

28 EIP	20 25 08.6	Z=CP	1.1	2757	GS H0 20 19 45.6 33.8N 38.6W
IS	29 33.0	Z=LP			CRISTA ATLANTICO NORTE
LM	20 30.5	Z=LP			

29 IP	05 51 32.3D	Z=CP	0.6	8643	GS H0 05 09 35.5 3.9N 85.9W
IPP	54 34.0	Z=LP			COSTA AMERICA CENTRAL
EIS	06 00 40.0	Z=LP			
EISKS	01 06.0	Z=LP			
M	06 20.3	Z=LP			

29 ESG	14 42 14.0	Z=CP			
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31 EIP	00 06 11.0C	Z=CP	1.0	2606	GS H0 00 01 00.3 58.4N 31.8W
					CRISTA ATLANTICO NORTE

31 EIP	23 55 07.0D	Z=LP		2608	GS H0 23 50 00.3 58.4N 31.9W
					CRISTA ATLANTICO NORTE

DIA	FASE	HORA-TMG	COMP=APAR	T(S)	DIST=KM	REFERENCIAS
01	IPKP I	21 23 46.0D 23 57.1	Z=CP	1.0	16906	GS H0 21 03 57.3 12.9S 166.5E IL. SANTA CRUZ NORTE
08	EIP I*P IS ISS M	02 49 47.2D 49 54.3 57 21.0 03 01 44.0 03 11.6	Z=CP Z=CP Z=LP Z=LP Z=LP	0.9	5937	GS H0 02 40 27.0 40.3N 63.8E UZBEQUISTAO URSS
08	IP I	03 08 26.0D 08 30.6	Z=CP Z=CP	1.0	5940	GS H0 02 59 05.5 40.2N 63.8E UZBEQUISTAO URSS
09	EIP I IPP	07 20 32.0C 20 37.6 23 26.9	Z=CP Z=CP Z=LP	1.6	8369	GS H0 07 08 47.0 0.8N 79.8W PROX. COSTA EQUADOR
09	EIPN ISN ISG	19 25 50.3D 26 32.0 26 50.5	Z=CP Z=CP Z=CP	422	IS	H0 19 24 54.0 36.5N 7.4W SUDSESTE FARO
10	EPKP I	17 31 01.3	Z=CP	1.3	17301	GS H0 17 12 09.2 17.7S 178.5W IL. FIJI
12	EPN ISN	13 59 07.6 14 00 08.0	E=CP ZNE=CP	588		
15	IPG ISG	06 01 51.0C 01 59.6	Z=CP Z=CP	51	IN	H0 06 01 40.6 39.8N 8.7W PORTO DE MOS PORTUGAL
18	IP	19 52 54.2D	Z=CP	1.1	9617	GS H0 19 40 20.5 25.8S 68.8W FRONT. CHILE ARGENTINA
22	IP	17 12 06.0C	Z=CP	0.7	5634	GS H0 17 03 07.9 28.7N 52.1E SUL DO IRAO
24	EP I*P	19 21 44.0 21 53.0	Z=CP Z=CP	4886	GS	H0 19 13 35.4 41.5N 50.9E MAR CASPIO
30	EPG ISG I I	20 26 26.0 26 32.3 26 42.4 26 48.8	Z=CP Z=CP Z=CP Z=CP	118	IN	H0 20 26 08.0 39.3N 07.7W PORTUGAL
09	EIP*P	21 04 14.0C	Z=CP	1574	GS	H0 20 04 44.7 7.5S 154.0E IL. GALAPAGOS
11	IP I*P IPP IPPP IS	17 04 41.0C 04 56.0 05 10.0 05 19.3 05 48.0	Z=LP Z=LP Z=LP Z=LP Z=LP	10.25	8429	GS H0 17 05 48.2 27.6N 20.2E MAR JONICO

Line	Origin	Destination	Class	Rate	Remarks
01	PORTUGAL	PORTUGAL	3-CP	56 48.8	
02	PORTUGAL	PORTUGAL	3-CP	56 35.3	
03	PORTUGAL	PORTUGAL	3-CP	56 56.0	
04	PORTUGAL	PORTUGAL	3-CP	51 83.0	
05	PORTUGAL	PORTUGAL	3-CP	19 31 44.0	
06	SUL DO IRAN	SUL DO IRAN	3-CP	17 15 06.0C	
07	FRONT. CHILE ARGENTINA	FRONT. CHILE ARGENTINA	3-CP	19 25 24.50	
08	PORTO DE MDR PORTUGAL	PORTO DE MDR PORTUGAL	3-CP	06 01 21.0C	
09	18N	18N	3-CP	14 00 08.0	
10	13 89 07.4	13 89 07.4	3-CP	13 89 07.4	
11	17 31 01.3	17 31 01.3	3-CP	17 31 01.3	
12	35 20 30	35 20 30	3-CP	35 20 30	
13	30 37.4	30 37.4	3-CP	30 37.4	
14	07 20 32.0C	07 20 32.0C	3-CP	07 20 32.0C	
15	08 30.6	08 30.6	3-CP	08 30.6	
16	03 08 24.00	03 08 24.00	3-CP	03 08 24.00	
17	03 11.6	03 11.6	3-CP	03 11.6	
18	03 01 44.0	03 01 44.0	3-CP	03 01 44.0	
19	02 49 47.20	02 49 47.20	3-CP	02 49 47.20	
20	02 22 52.3	02 22 52.3	3-CP	02 22 52.3	
21	02 22 52.3	02 22 52.3	3-CP	02 22 52.3	
22	02 22 52.3	02 22 52.3	3-CP	02 22 52.3	
23	02 22 52.3	02 22 52.3	3-CP	02 22 52.3	
24	02 22 52.3	02 22 52.3	3-CP	02 22 52.3	
25	02 22 52.3	02 22 52.3	3-CP	02 22 52.3	
26	02 22 52.3	02 22 52.3	3-CP	02 22 52.3	
27	02 22 52.3	02 22 52.3	3-CP	02 22 52.3	
28	02 22 52.3	02 22 52.3	3-CP	02 22 52.3	
29	02 22 52.3	02 22 52.3	3-CP	02 22 52.3	
30	02 22 52.3	02 22 52.3	3-CP	02 22 52.3	

DIA	FASE	HORA=TMG	COMP=APAR	T(S)	DIST=KM	REFERENCIAS
04	EP	04 48 34.0	Z-LP	1.0	4622	GS H0 04 40 46.5 8.0N 38.0W
	EIS	54 48.0	Z-LP			CRISTA ATLANTICO NORTE
	LM	05 00.5	Z-LP			
04	EP	08 54 58.8	Z-LP		8145	GS H0 08 43 27.3 13.1N 87.0W
						HONDURAS
04	EPKP	10 01 39.0	Z-LP		16795	GS H0 09 42 13.4 11.9S 166.6E
						IL. SANTA CRUZ
04	EPN	11 55 36.0	E-CP		300	
	ISN	56 10.0	E-CP			
04	EIPKP	14 16 37.0D	Z-LP		19388	GS H0 13 56 29.9 44.6S 167.0E
	EIPKP2	17 36.6	Z-LP			SUL NOVA ZELANDIA
	IPP	22 03.4	Z-LP			
	IPPP	25 44.0	Z-LP			
	ISKKS	29 08.0	Z-LP			
	L	15 29.0	Z-LP			
	M	15 36.5	Z-LP			
05	IPKP	05 12 55.4D	Z-LP		18490	GS H0 04 52 51.0 29.9S 177.8W
	IPP	17 50.0	Z-LP			IL. KERMADEC
	EISKKS	24 36.4	Z-LP			
	EISP	30 29.0	Z-LP			
	EISS	37 39.8	Z-LP			
	LM	05 46.8	Z-LP			
06	EPN	13 00 42.0	E-CP		334	GS H0 12 59 53.0 37.4N 7.0W
	ISN	01 20.0	E-CP			HUELVA ESPANHA
06	IP	20 04 09.0C	Z-LP	1.1	1874	GS H0 20 00 11.6 46.3N 13.3E
	IPP	04 20.0	Z-LP			AUSTRIA
	IS	06 22.0	Z-LP			
07	EPG	04 54 54.4	Z-CP		109	IN H0 04 54 34.0 39.3N 8.9W
	ISG	55 07.7	N-CP			PORTUGAL
07	EIP	05 23 34.3D	Z-CP	0.9	8666	GS H0 05 10 49.3 8.6S 74.7W
						FRONT. PERU-BRASIL
09	EP	00 57 41.0	Z-CP	1.0	1874	GS H0 00 53 44.0 46.2N 13.3E
						AUSTRIA
09	EIPKP	21 04 14.0C	Z-CP		15974	GS H0 20 44 44.7 7.5S 154.6E
						IL. SALOMAO
11	IP	17 04 44.4C	Z-LP	0.9	2490	GS H0 16 59 48.2 37.6N 20.3E
	I*P	04 56.0	Z-LP			MAR JONICO
	IPP	05 10.0	Z-LP			
	IPPP	05 19.9	Z-LP			
	IS	08 48.0	Z-LP			

11	IP	22 47 59.00	Z-CP-LP	1.3	1855	GS H0 22 44 00.2 46.3N 13.0E
						AUSTRIA
15	EPG	11 08 05.3	Z-CP		44	
	ISG	08 10.7	NE-CP			
	ISN	08 17.3	N-CP			
15	IP	22 08 06.00	Z-LP	0.7	8822	GS H0 21 55 58.5 11.6S 74.5W
	IS	18 03.7	Z-LP			PERU
	L	22 29.3	Z-LP			
	M	22 36.4	Z-LP			
17	IP	03 08 00.70	Z-LP	1.1	5905	GS H0 02 58 40.6 40.4N 63.5E
	IPP	10 05.0	Z-LP			UZBEKISTAN-URSS
	IS	15 12.6	Z-LP			
	L	03 20.5	Z-CP			
	M	03 25.2	Z-CP			
19	EIP	04 18 11.00	Z-LP	0.5	7760	GS H0 04 07 15.8 4.5N 75.8W
						COLUMBIA
21	EPKIKP	04 29 45.3	Z-LP	0.6	13196	GS H0 04 11 15.2 3.7N 125.1E
						IL. TALAUD
23	EPKP	06 20 28.0	Z-LP		15676	GS H0 06 01 14.6 4.9S 153.7E
						NOVA IRLANDA
23	IP	16 44 46.30	Z-LP	0.7	9099	GS H0 16 32 33.0 10.5S 78.3W
	IPP	47 40.0	Z-LP			PROX. COSTA PERU
	IS	54 54.8	Z-LP			
24	EP	11 38 25.0	Z-LP		11470	GS H0 11 24 25.2 31.2N 141.6E
	L	12 24.5	Z-LP			SUL HONSHU-JAPAN
29	EP	12 36 04.0	Z-LP		9602	GS H0 12 23 18.7 24.6N 98.9E
	E*P	36 08.0	Z-LP			PROX. YUNNAN-CHINA
	EPP	39 34.0	Z-LP			
	ES	46 32.0	Z-LP			
	M	13 14.2	Z-LP			
29	IP	14 13 07.60	Z-CP		9579	GS H0 14 00 18.5 24.5N 98.7E
	IPP	16 37.0	Z-CP			FRONT. CHINA-BIRMANIA
31	I*P	05 21 18.40	Z-LP		9595	GS H0 05 08 28.5 24.3N 98.6E
	LM	05 57.8	Z-LP			FRONT. CHINA-BIRMANIA

DIA	FASE	HORA=TMG	COMP=APAR	T(S)	DIST=KM	REFERENCIAS
03	EPN	15 15 24.0	N=CP	SSA	144	UC H0 15 15 14
	ESN	15 41.3	N=CP			
	ISG	15 47.3	E=CP			
03	IPKP	17 03 54.0D	Z=LP	0.5	14608	GS H0 16 44 38.8 5.2S 153.4E NOVA IRLANDA
05	EIPKP	08 39 48.3D	Z=CP	1.1	16478	GS H0 08 20 07.2 10.1S 161.0E
	I	39 53.8D	Z=CP			IL. SALOMAO
06	EPG	16 43 18.4	Z=CP		47	UC H0 16 43 10
	ISG	43 26.0	Z=CP			
	S*	43 27.8	Z=CP			
07	EPP	07 55 40.2	Z=CP		12266	GS H0 07 36 55.4 14.1N 124.8E IL. FILIPINAS
07	EIP	14 38 50.2D	Z=CP	1.0	8936	GS H0 14 26 39.1 17.4N 100.6W
	IPP	42 01.2	Z=CP			GUERREIRO=MEXICO
08	EIP	01 40 28.1D	Z=CP	1.0	9368	GS H0 01 28 54.7 27.0S 63.3W SANTIAGO ESTERO=ARGENTINA
09	EP	00 33 19.0	Z=LP		9557	GS H0 00 20 39.5 24.9N 98.7E
	IPP	36 42.0	Z=LP			FRONT. BURMA=CHINA
	L	00 40.6	Z=LP			
09	EPKP	16 50 05.3	Z=CP	0.9	15728	GS H0 16 30 39.7 6.5S 151.4E NOVA BRETANHA
12	IP	01 04 19.0D	Z=LP	0.7	2509	GS H0 00 59 16.9 37.5N 20.5E
	IPP	04 49.0	Z=LP			MAR JONICO=GRECTA
	IS	08 25.4	Z=LP			
	M	01 15.0	Z=LP			
13	EP	19 15 52.7	Z=CP		6077	GS H0 19 06 27.4 19.0N 67.9W
	M	19 23.0	Z=CP			ESTR. MAMA=P. RICO
13	EIP	22 15 12.8D	Z=LP	1.6	9235	GS H0 22 02 47.6 15.3S 75.4W
	I	15 35.9	Z=LP			PROX. COSTA PERU
	LM	22 45.5	Z=LP			
15	EPPP	06 32 51.0	Z=LP		14164	GS H0 06 09 01.8 0.5N 134.8E
	LM	07 26.4	Z=LP			BESTE DA INDIA
15	EP	12 36 35.6	Z=CP	0.9	9564	GS H0 12 23 55.1 53.1N 159.6E PROX. COSTA KAMCHATKA
15	EP	23 42 25.0	Z=CP=LP		4651	GS H0 23 34 35.6 1.4S 14.1W
	LM	23 55.5	Z=LP			NORTE IL. ASCENSAO
18	IP	10 26 16.1D	CP=LP	1.3	9246	GS H0 10 13 51.0 15.3S 75.5W
	I*P	26 27.0	Z=LP			PROX. COSTA PERU
18	IP	15 11 19.0D	Z=LP	1.3	9235	GS H0 14 58 53.6 15.2S 75.4W
	I*P	11 29.6	Z=LP			PROX. COSTA PERU

18	EPN	21 13 56.8	Z-CP	422	IS HB 21 12 56
	ISN	14 42.9	Z-CP		
20	EPN	03 44 34.2	Z-CP	884	UC HB 02 42 34
	ESN	46 06.0	Z-CP		
20	EP	04 52 04.4	Z-LP	11366	GS HB 04 38 08.0 24.7N 125.9E
	IPP	56 31.4	Z-LP		SUL IL. RUEQUIN
	LM	05 37.5	Z-LP		
20	EP	21 06 54.5	Z-CP	10984	GS HB 20 53 13.4 3.4N 96.3E
					NORTE SUMATRA
20	EP	22 43 11.9	Z-CP	5924	GS HB 23 33 48.8 40.4N 63.7E
					UZBEKISTAN-URSS
21	EPN	14 47 15.1	Z-CP	480	IS HB 14 45 43 37.8N 3.8W
	ISN	48 07.2	Z-CP		PROX. JAEN-ESPANHA
	ISG	48 14.3	Z-CP		
23	EPKP	14 09 01.6	Z-LP	0.7 14128	GS HB 13 49 58.0 0.5N 139.8E
	IPP	11 05.4	Z-LP		NBVA GUINE OCIDENTAL
	IPPP	13 46.0	Z-LP		
	LM	15 06.7			
25	EPKP	19 38 15.4	Z-LP	0.9 14062	GS HB 19 18 56.9 4.6S 140.1E
	IPKS	41 00.0	Z-LP		NBVA GUINE OCIDENTAL
	IPPP	42 03.4	Z-LP		
	ISKS	48 09.0	Z-LP		
	ISP	51 18.4	Z-LP		
	ISS	56 38.4	Z-LP		
	ISSG	20 00 15.4	Z-LP		
	LM	20 30.0	Z-LP		
29	IPKP	18 50 12.0D	Z-LP	18806	GS HB 18 30 09.1 33.8S 177.8W
	IPKP2	51 25.0	Z-LP		IL. KERMADEK
	IPP	55 14.0	Z-LP		
	IPPP	59 20.0	Z-LP		

DIA	FASE	HORA-TMG	COMP=APAR	T(S)	DIST=KM	REFERENCIAS
01	EIP LM	11 35 50.4C 12 05.2	Z-LP Z-LP		8462	GS HB 11 24 05.3 29.6S 25.2E AFRICA DO SUL
04	EIP	03 07 01.8C	Z-CP		6538	GS HB 02 56 57.7 49.9N 79.0E KAZAQUISTAN OCID.=URSS
10	EP	11 49 28.7	Z-CP	1.0	9930	GS HB 11 37 12.8 47.4N 145.7E JAPAO
11	IP	17 05 43.3C	Z-CP	1.5	7777	GS HB 16 54 31.8 7.3N 78.5W PANAMA
11	EIP	18 31 34.2C	Z-LP	1.6	7770	GS HB 18 20 23.7 7.4N 78.2W PANAMA
11	IP I	20 53 01.8D 53 07.8D	Z-CP Z-CP	0.7	7744	GS HB 20 41 47.5 7.4N 78.1W PANAMA
11	EP	21 09 34.4	Z-CP		7771	GS HB 20 58 23.7 7.0N 78.1W PANAMA
11	EP	22 21 58.0	Z-LP		7776	GS HB 22 10 45.8 7.1N 78.3W PANAMA
12	EP	00 27 54.0	Z-CP		7777	GS HB 00 16 43.1 7.4N 78.6W PANAMA
12	EP	14 54 20.8	Z-CP		7771	GS HB 14 43 10.6 7.2N 78.3W PANAMA
13	EPN ISN	19 04 33.6 05 51.0	Z-CP Z-CP		733	UC HB 19 02 52 FILIPINAS
14	EP	01 43 43.3	Z-CP		7737	GS HB 01 32 34.8 7.4N 77.9W PANAMA
14	EPG ISG ISN	16 36 27.0 36 32.0 36 36.7	Z-CP E-CP E-CP		45	UC HB 16 36 19 INDONESIA-FILIPINAS
14	EP	19 14 02.7	Z-CP		7777	GS HB 19 02 52.5 7.2N 78.2W PANAMA
15	EP	00 46 41.7	Z-CP		7740	GS HB 00 35 32.4 7.4N 78.1W PANAMA
15	EP	05 11 46.0	Z-CP		7774	GS HB 05 00 35.9 7.3N 78.4W PANAMA
17	EPKP I	21 25 56.4 25 59.0C	Z-CP Z-CP		15557	GS HB 21 06 32.1 4.2S 152.8E NOVA BRETANHA
24	IP	10 55 06.3C	Z-CP	1.0	8299	GS HB 10 43 22.0 4.8N 82.6W SUL DO PANAMA
27	EP	04 06 22.0	Z-CP	1.5	2767	GS HB 04 00 56.6 64.6N 17.2W ISLANDIA

28 EP	15 48 41.3	Z-CP	9607	GS H0 15 35 55.3 39.8N 118.7E	
				CHINA DO NORTE	
28 EPKP	17 35 33.3	Z-CP	17742	GS H0 17 15 01.7 20.1S 170.0E	
				NOVAS HEBRIDAS	
28 EPKP	17 41 11.3	Z-CP	17761	GS H0 17 21 05.2 20.3S 170.0E	
				NOVAS HEBRIDAS	
28 EP	18 36 31.7	Z-CP	6667	GS H0 18 24 28.3 39.3N 72.8E	
				KIRGISTAO-URSS	
28 EIP	20 25 16.3D	Z-CP	0.8	4412	GS H0 20 17 42.3 43.2N 45.6E
I	25 22.5D	Z-CP			CAUCASO OCIDENTAL
29 IP	05 07 41.7C	Z-CP	0.7	4490	GS H0 04 59 57.7 47.8N 48.1E
					KAZAKISTAO-URSS EXPL SUBT
29 EP	07 05 44.3	Z-CP	0.9	7772	GS H0 06 54 33.5 7.0N 78.1W
					PANAMA
31 EPKP	01 06 59.5	Z-CP	18532	GS H0 00 46 58.0 30.3S 177.9W	
					IL. KERMADEC
31 EPN	09 00 42.8	Z-CP	443	IS H0 08 59 32 36.7N 6.0W	
ISN	01 48.0	Z-CP			CADIZ-ESPANHA

DIA	FASE	HORA-TMG	COMP-APAR	T(S)	DIST-KM	REFERENCIAS
02	IPKP I	11 15 19.9D 16 01.9	Z-CP Z-CP		17793	GS H0 10 55 25.7 20.6S 169.3E IL. NOVAS HEBRIDAS
06	IPN ISN ISG	13 26 16.8C 26 39.3 26 41.2	Z-CP Z-CP Z-CP		200	IN H0 13 25 48 38.5N 7.7W
10	EP	00 22 00.3	Z-CP		8201	GS H0 00 10 26.9 2.1N 79.0W SUL DE PANAMA
12	EPKP I	10 19 32.7 19 50.1	Z-CP Z-CP		16606	GS H0 09 59 45.3 10.9S 162.5E IL. SALOMAO
12	EPKP E	21 11 58.0 13 20.9	Z-CP Z-CP	0.7	13155	GS H0 20 53 49.1 3.6N 124.3E MAR DAS CELEBES
12	IP EPP	23 39 17.0D 42 26.9	Z-CP Z-LPW		9305	GS H0 23 26 46.2 26.7N 97.1E BIRMANIA
16	EP	02 35 25.8	Z-CP		4606	GS H0 02 27 38.6 0.8S 16.0W NORTE DA IL. ASCENSAO
16	EPN ISN	04 17 59.5 18 23.3	Z-CP Z-CP		398	UC H0 04 17 01 37.5N 5.4W SUL DE ESPANHA
16	EIP I LM	14 19 19.4C 19 23.2D 14 53.3	Z-CP Z-CP Z-LPW	1.1	9336	GS H0 14 06 45.9 32.8N 04#25 TSEKIANG-CHINA
16	EP E EPP M	16 26 51.8 29 48.9 31 04.8 17 19.2	Z-CPG Z-CP Z-CPG Z-CPG		1290	GS H0 6 07.3 6#35 24# 5 MINDANAU-FILIPINAS
17	EPP ES M	04 39 02.8 50 09.8 05 38.5	Z-CP Z-LPW Z-LPW	2.0	12699	GS H0 04 19 27.3 7.3N 122.3W MINDANAU-FILIPINAS NOVA GUINEA OCIDENTAL
17	EP I	17 43 20.7 43 31.5	Z-CP Z-CP		3081	GS H0 17 37 56.6 36.9N 27.0E IL. DODECANESIO
20	EP	07 06 29.4	Z-CP		9230	GS H0 06 54 11.3 20.1S 69.9W PROX. COSTA NORTE CHILE
21	EPP I	07 17 50.5 18 48.6C	Z-CP Z-CP	0.7	14400	GS H0 06 56 47.2 6.7S 129.6E MAR DE BANDA
21	IP I IPP LM	22 02 26.9D 02 32.0D 05 41.6 22 37.2	Z-CP Z-CP Z-LPW Z-LPW	1.0	9357	GS H0 21 49 54.2 32.0N 104.2E TSE KIANG-CHINA
22	EP I	02 13 20.0 14 01.5	Z-CP Z-CP	0.8	8383	GS H0 02 01 47.4 60.2N 153.3W SUL DE ALASCA

Line	Code	Date	Time	Lat	Long	Alt	Locality
22	EPKP	21 29	53.2	Z-CP	17076	GS HB 21 09 41.9 14.0S	170.9E NOVAS HEBRIDAS
23	EP	03 20	11.7	Z-CP	2498	GS HB 03 15 15.5 38.4N	20.7E GRECIA
23	IP	03 42	39.2C	Z-CP	9358	GS HB 03 30 07.6 32.5N	104.2E TSEKIANG CHINA
	I	42 42	9C	Z-CP			
	EPP	45 55	0	Z-CP			
	ES	52 12	2	Z-LPW			
	LM	04 17	2	Z-LPW			
24	IPN	19 57	25.6D	Z-CP	544	IS HB 19 56 17.5 36.9N	3.8W MALAGA ESPANHA
	ISN	58 14	0	Z-CP			
27	EPG	11 11	57.7	Z-CP	33	UC HB 11 11 57.0	
	ISG	12 01	0	Z-CP			
28	IP	03 07	01.3C	Z-CP	0.5 6539	GS HB 02 56 57.5 49.9N	79.0E KAZAKISTAN-URSS EXPL SUBT
31	EP	03 38	12.1	Z-CP	9624	GS HB 03 25 27.8 39.8N	118.9E CHINA DO NORTE

DIA	FASE	HORA-TMG	COMP-APAR	T(S)	DIST-KM	REFERENCIAS
01	EPKP	13 46 02.1	Z-CP	0.9	17772	GS H0 13 25 29.8 20.4S 169.4E IL. NOVAS HEBRIDAS
04	IPKP2	12 01 39.60	Z-CP	0.9	16498	GS H0 11 41 59.7 10.2S 161.1E IL. SALOMAO
04	EIP	20 23 41.00	Z-CP	1.1	8881	GS H0 20 11 37.9 18.7N 101.1W GUERREIRO MEXICO
06	EP I	10 01 33.6 01 43.0	Z-CP	0.7	2607	GS H0 09 56 25.6 58.2N 32.2W ATLANTICO NORTE
07	EPN ESN	00 58 31.0 59 26.7	Z-CP Z-CP		470	
09	IPN ISN ISG	12 07 01.2C 07 23.6 07 25.6	Z-CP Z-CP Z-CP		189	IN H0 12 06 28.4 41.9N 08.2W
11	EP I	16 35 10.6 35 13.8C	Z-CP Z-CP		1857	GS H0 16 31 12.0 46.3N 13.2E AUSTRIA
11	IP I IPP IS	16 38 59.60 39 02.90 39 10.7 41 48.2	Z-CP Z-CP Z-CP Z-CP	1.3	1811	GS H0 16 35 03.3 46.3N 13.2E AUSTRIA
13	ESN	02 02 18.3	E-CP			
14	EP IPCP I	06 55 40.5 55 52.0 56 03.3	Z-CP Z-CP Z-CP	0.7	8522	GS H0 06 43 52.3 29.8N 89.6E TIBET
14	EPKP	23 08 43.0	Z-CP		14719	GS H0 22 49 32.4 3.7S 138.0E NOVA GUINE OCIDENTAL
15	EIP IPP IPPP IS	03 19 17.90 19 28.3 19 39.0 22 27.8	Z-CP Z-CP Z-CP Z-CP	1.7	1867	GS H0 03 15 19.9 46.3N 13.2E AUSTRIA
15	IP IS LM	09 25 16.10 28 24.0 09 30.6	Z-CP Z-CP Z-CP	1.8	1862	GS H0 09 21 19.1 46.3N 13.1E AUSTRIA
15	EP	11 15 09.6	Z-CP		1866	GS H0 11 11 10.8 46.3N 13.2E AUSTRIA
16	EPKP EPP	11 46 03.6 49 16.1	Z-CP Z-CP		15835	GS H0 11 26 36.8 9.2S 148.1E NOVA GUINE
21	IP	15 05 40.6C	Z-CP	0.9	1981	GS H0 15 01 50.6 38.8N 14.7E MAR TIRRENO-SICILIA

DIA	FASE	HORA-TMG	CHMP-APAR	T(S)	DIST-KM	REFERENCIAS
01	IP	17 56 03.30	Z-CP	0.7	2878	GS HB 17 50 43.2 45.7N 26.5E ROMANIA
05	EPP	09 04 30.0	Z-LP		12856	GS HB 09 20 46.2 6.5N 123.7E MINDANAU-FILIPINAS
05	IPKP IPP	18 21 44.30 24 57.5	Z-CP Z-LPW	1.3	15799	GS HB 18 02 15.4 6.4S 153.0E NOVA BRETANHA
05	EPN ISN ISG	23 28 32.3 29 20.7 29 39.0	Z-CP N-CP E-CP		438	IN HB 23 27 28.0 36.9N 11.2W COSTA DE PORTUGAL
07	EPN ISN ISG	16 19 17.2 19 39.2 19 42.2	Z-CP Z-CP Z-CP		188	UC HB 16 18 47.0 IS SISMO ARTIFICIAL
07	IP	22 13 05.60	Z-CP	0.9	8449	GS HB 22 01 18.5 0.3S 80.4W PRBX. COSTA EQUADOR
09	IPG ISG	12 07 27.90 07 31.7	Z-CP Z-CP		40	GS HB 12 07 32.5 24.2N 87.4E SUL DE BRASIL
12	EPKP	01 00 30.3	Z-CP	1.1	16526	GS HB 00 40 52.9 10.4S 161.3E IL. SALOMAO
15	EP	23 12 17.1	Z-CP		5492	GS HB 23 03 26.1 30.0N 52.0E IRAN
26	IPG ISG	04 25 50.20 25 02.7	Z-CP Z-CP		102	IN HB 04 25 30.0 40.7N 07.4W PORTUGAL
23	IP	05 13 01.30	Z-CP	0.8	4539	GS HB 05 02 57.4 50.0N 13.0E KAZAKHISTAN/URSS EXPL SORT
24	IP IPP IS LP	12 29 38.00 25 33.8 24 04.0 13 34.3	Z-CP Z-CP Z-CP Z-CP	1.3	4417	GS HB 12 22 18.8 39.1N 89.0E FRONT. IRAN/URSS
24	EP	21 08 30.7	Z-CP	0.9	4727	GS HB 21 00 54.5 32.0N 81.0E ATLANTICO NORTE
25	EP	05 26 35.2	Z-CP		8139	GS HB 05 25 22.2 2.7N 84.7E COSTA RICA
25	LIPW	05 26 35.2	Z-CP		17404	GS HB 05 26 35.2 2.7N 84.7E SUL DE BRASIL
25	EP	05 26 35.2	Z-CP		2283	GS HB 05 26 35.2 2.7N 84.7E COLOMBIA
24	EP	12 29 38.00	Z-CP		8040	GS HB 12 29 38.0 39.1N 89.0E COSTA NORTE CALIFORNIA
27	IP IPC	27 02 07.30 27 07.00	Z-CP Z-LP	1.4	4744	GS HB 27 02 12.2 39.5N 73.0E FRONT. AFGANISTAO/URSS

DATE	DESCRIPTION	AMOUNT	DEBIT	CREDIT	BALANCE
01 19	01 00 30.3	5-CP			
02 19	02 15 17.1	5-CP			
03 19	03 07 57.92	5-CP			
04 19	04 22 05.7	5-CP			
05 19	05 28 35.3	5-CP			
06 19	06 28 35.3	5-CP			
07 19	07 28 35.3	5-CP			
08 19	08 28 35.3	5-CP			
09 19	09 28 35.3	5-CP			
10 19	10 28 35.3	5-CP			
11 19	11 28 35.3	5-CP			
12 19	12 28 35.3	5-CP			
13 19	13 28 35.3	5-CP			
14 19	14 28 35.3	5-CP			
15 19	15 28 35.3	5-CP			
16 19	16 28 35.3	5-CP			
17 19	17 28 35.3	5-CP			
18 19	18 28 35.3	5-CP			
19 19	19 28 35.3	5-CP			
20 19	20 28 35.3	5-CP			
21 19	21 28 35.3	5-CP			
22 19	22 28 35.3	5-CP			
23 19	23 28 35.3	5-CP			
24 19	24 28 35.3	5-CP			
25 19	25 28 35.3	5-CP			
26 19	26 28 35.3	5-CP			
27 19	27 28 35.3	5-CP			
28 19	28 28 35.3	5-CP			
29 19	29 28 35.3	5-CP			
30 19	30 28 35.3	5-CP			
31 19	31 28 35.3	5-CP			

DIA	FASE	HORA=ING	COMP=APAR	T(S)	DIST=KM	REFERENCIAS
02	EPN ISN ISG	20 27 05.5 27 51.3 28 18.3	Z=CP E=CP N=CP		432	UC HB 20 26 06.0 37.8N 4.5W SUL DE ESPANHA
06	IP	18 16 54.00	Z=CP	0.7	9523	GS HB 18 04 08.9 27.6N 101.0E CHINA
09	EPN IP* ISN	03 28 51.00 28 59.0 30 24.7	Z=CP Z=CP Z=CP		800	UC HB 03 26 52.0 39.6N 7.8W ATLANTICO NORTE
09	EPN ESN	05 22 55.6 23 30.7	Z=CP Z=CP		290	UC HB 05 22 05.0 42.7N 9.5W ATLANTICO NORTE
10	IPN ISN	14 53 50.90 54 35.0	Z=CP N=CP	0.2	448	IS HB 14 52 48.0 36.3N 9.7W ATLANTICO NORTE
11	EIP	03 27 33.00	Z=CP	1.1	7919	GS HB 03 16 15.3 5.0N 78.2W SUL DO PANAMA
13	IP	10 21 59.80	Z=CP	0.6	6050	GS HB 10 12 32.5 28.2N 57.4E SUL DO IRAO
15	IP	14 05 46.1	Z=CP	1.5	9592	GS HB 13 53 00.6 39.4N 117.7E NORTE DA CHINA
17	IP IPCP	17 33 11.00 34 04.3	Z=CP Z=CP	0.8	6699	GS HB 17 23 23.6 36.5N 71.2E FRONT. URSS/AFEGANISTAO
18	EPKP	03 43 39.3	Z=CP		14517	GS HB 03 24 00.2 8.8S 166.9E IL. SALOMAO
23	IP	05 13 01.30	Z=CP	0.6	6539	GS HB 05 02 57.4 50.0N 79.0E KASAKUISTAO=URSS EXPL SUBT
24	IP IPP IS LM	12 29 52.00 31 33.6 46 00.0 12 39.3	Z=CP Z=LP Z=LP Z=LP	1.3	4417	GS HB 12 22 18.8 39.1N 44.0E FRONT. IRAO/URSS
24	EP	21 58 50.7	Z=CP	0.9	4727	GS HB 21 50 54.6 33.0N 61.5W ATLANTICO NORTE
25	EP	06 56 52.3	Z=LP		8139	GS HB 06 45 22.2 9.7N 84.7W COSTA RICA
25	EIPKP I	14 25 42.70 26 15.60	Z=CP Z=CP		17464	GS HB 14 06 35.4 19.5S 177.7W IL. FIJI
25	EIP	15 10 27.90	Z=CP		7753	GS HB 14 59 35.7 4.2N 75.5W COLOMBIA
26	EP	11 31 41.3	Z=CP		8949	GS HB 11 19 25.2 41.3N 125.7W COSTA NORTE CALIFORNIA
27	IP IPCP	21 52 03.50 52 47.60	Z=CP Z=LP	1.4	6744	GS HB 21 42 12.2 35.5N 71.0E FRONT. AFEGANISTAO/URSS

REFERENTIAL	DIA FASE	CONTRAPAR 181 DIST-KM	US LPR	US LPR
IPP 54 01.5 Z-LP	20 3E	2501	50 53 08.8	50 53 08.8
28 EIP 19 30 17.10 Z-CP 0.8	20 3E	2501	50 53 08.8	50 53 08.8
	MAR JONICØ			
30 EP 00 53 13.9 Z-CP 0.9	68.9	9186	50 53 08.8	50 53 08.8
IPCP 53 22.3 Z-LP	FRONT. CHILE/BOLIVIA			
1*P 53 28.1 Z-LP				
IPP 55 53.1 Z-LP				
IS 01 13 12.3 Z-LP				
ATLANTIC NORTE				
ATLANTIC NORTE				
ATLANTIC NORTE				
SUL DO PANAMA				
SUL DO IRAN				
NORTE DA CHINA				
FRONT. URSS/AFGHANISTAO				
IL. SALOMAO				
KARAKUMISTAB+URSS EXPL. SERT				
FRONT. IRAQUSS				
ATLANTIC NORTE				
COSTA RICA				
IL. FIJI				
COLUMBIA				
COSTA NORTE CALIFORNIA				
FRONT. AFGHANISTAO/URSS				

DIA	FASE	HORA-TMG	COMP=APAR	T(S)	DIST=KM	REFERENCIAS
20	E*P IPCP	20 45 47.0 45 10.4	Z=CP Z=CP		8529	GS H0 20 33 07.8 48.8N 129.3W IL. DE VANCOUVER
21	ESN	07 23 06.8	Z=CP			
27	EP	07 59 13.9	Z=CP	1.0	2469	GS H0 07 54 13.3 39.1N 20.6E FRONT. ALBANIA/GRECIA
28	EP	14 04 12.3	Z=CP		9215	GS H0 13 51 56.9 21.1S 68.6W FRONT. BOLIVIA/CHILE

1 9 7 4 - 1 2 - 2 2

R E F E R E N C I A S

C O M P A R I S O N T E S T D I S T - R M

1 2 1 7 5 2

NO	DATE	TEST	RESULT	REFERENCE
1	12-22-74	1-CP	100%	FRONT, HOLIVAYCHIK
2	12-22-74	1-CP	100%	FRONT, ALBERTA
3	12-22-74	1-CP	100%	FRONT, ALBERTA
4	12-22-74	1-CP	100%	FRONT, ALBERTA
5	12-22-74	1-CP	100%	FRONT, ALBERTA
6	12-22-74	1-CP	100%	FRONT, ALBERTA
7	12-22-74	1-CP	100%	FRONT, ALBERTA
8	12-22-74	1-CP	100%	FRONT, ALBERTA
9	12-22-74	1-CP	100%	FRONT, ALBERTA
10	12-22-74	1-CP	100%	FRONT, ALBERTA
11	12-22-74	1-CP	100%	FRONT, ALBERTA
12	12-22-74	1-CP	100%	FRONT, ALBERTA
13	12-22-74	1-CP	100%	FRONT, ALBERTA
14	12-22-74	1-CP	100%	FRONT, ALBERTA
15	12-22-74	1-CP	100%	FRONT, ALBERTA
16	12-22-74	1-CP	100%	FRONT, ALBERTA
17	12-22-74	1-CP	100%	FRONT, ALBERTA
18	12-22-74	1-CP	100%	FRONT, ALBERTA
19	12-22-74	1-CP	100%	FRONT, ALBERTA
20	12-22-74	1-CP	100%	FRONT, ALBERTA
21	12-22-74	1-CP	100%	FRONT, ALBERTA
22	12-22-74	1-CP	100%	FRONT, ALBERTA
23	12-22-74	1-CP	100%	FRONT, ALBERTA
24	12-22-74	1-CP	100%	FRONT, ALBERTA
25	12-22-74	1-CP	100%	FRONT, ALBERTA
26	12-22-74	1-CP	100%	FRONT, ALBERTA
27	12-22-74	1-CP	100%	FRONT, ALBERTA
28	12-22-74	1-CP	100%	FRONT, ALBERTA
29	12-22-74	1-CP	100%	FRONT, ALBERTA
30	12-22-74	1-CP	100%	FRONT, ALBERTA

