INSTITUTO GEOGRAFICO NACIONAL
SECCION DE SISMOLOGIA
S.S.I.S.
APDO 3007 MADRID
TELEX 23465 IGCE
ESPAÑA

* *

BOLETIN DE SISMOS PROXIMOS PRIMER TRIMESTRE 1.983

INFORMACION Y DATOS DEL BOLETIN

1.- DATOS DE ESTACIONES: EN LA DESCRIPCION FIGURAN LOS SIGUIENTES CARACTERES:

EST	CODIGO DE LA ESTACION
I/E	FASE IMPULSIVA (I) O EMERGENTE (E)
W	PESO DE LA ESTACION. '*'PESO NULO. '=' CALCULADO CON S-P
HORA P	HORA DE LLEGADA DE LA PRIMERA FASE
HORA S	HORA DE LLEGADA DE LA FASE 'S' CORRESPONDIENTE
AMP	AMPLITUD DEL MOVIMIENTO EN MICRONES
PER	PERIODO EN SEGUNDOS
DUR	DURACION EN SEGUNDOS

2.- DATOS DE CALCULO HIPOCENTRAL

FECHA	DIA Y MES
HO	HORA ORIGEN (GMT)
LAT	LATITUD EN GRADOS Y MINUTOS. SIEMPRE NORTE
LONG	LONGITUD EN GRADOS Y MINUTOS. SIGNO ('-') OESTE
PRO	PROFUNDIDAD EN KM
RMS	ERROR CUADRATICO MEDIO
MAG	MAGNITUD 'MB' A PARTIR DE LA FASE 'LG'
IO	INTENSIDAD MAXIMA EN EL EPICENTRO
NO	NUMERO DE ESTACIONES

3.- RESUMEN DE LA ACTIVIDAD SISMICA DEL AREA: SE INCLUYE UNA LISTA CRONOLOGICA CON TODA LA INFORMACION CALCULADA

EH	ERROR DEL EPICENTRO EN KM
EZ	ERROR EN PROFUNDIDAD EN KM
+	MAPA DE ISOSISTAS
P	PREMONITORIO
R	REPLICA
S	SUBMARINO. SENTIDO EN TIERRA
T	TSUNAMI

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
LGR	I		06 44 32.2	I		06 44 41.1	0.77	0.9	
EPF			06 44 47.0			06 45 09.6			
GUD	E		06 45 03.4			06 45 37.3			
LFF			06 45 04.4			06 45 38.6			
LPO			06 45 05.3			06 45 40.8			
EBR	E	*	06 45 07.5			06 45 38.0			
RJF			06 45 12.7			06 45 53.5			
CAF			06 45 12.8			06 45 54.9			
TOL	E	*	06 45 23.0	E	*	06 46 07.0	0.03	0.9	
PRL		*	06 45 39.0			06 46 42.0			
MTE		*	06 45 47.5						

01-ENE	HO	LAT	LONG	PRO	RMS	MAG	IO	
SSIS	064420.4	42 55	-01 56	6	0.9	2.9		IRURZUN.NA

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
ALM	I		13 17 31.0	I		13 17 39.0	0.48	0.3	
PHE	I		13 17 46.5						
ALC	I		13 17 47.2						
CRT	E		13 17 48.0						
SMO	I		13 17 51.4						
TOL	E	*	13 18 30.0	E	*	13 19 17.0			

01-ENE	HO	LAT	LONG	PRO	RMS	MAG	IO	
SSIS	131722.2	36 25	-02 07	5	0.8			ALBORAN

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
ALM	I		15 47 00.5	I		15 47 5.3	4.06	0.5	
PHE	I		15 47 15.4						
ALC	I		15 47 16.6	E	*	15 47 35.8			
CRT	I		15 47 17.6			15 47 32.5			
SMO	I		15 47 20.0						
LOJ	I		15 47 22.2						
MAL	I		15 47 24.3	I	*	15 47 41.5	0.34	0.6	
ALI	E	*	15 47 37.5	E	*	15 47 54.8			
TOL	E	*	15 47 55.0	I	*	15 48 48.0			
PRL	E		15 48 07.0						
GUD	E	*	15 48 15.0	E		15 48 49.0			
MTE	E		15 48 18.1	E		15 49 20.0			
LGR	E	*	15 48 20.0	E	*	15 49 22.8			

01-ENE	HO	LAT	LONG	PRO	RMS	MAG	IO	
SSIS	154655.9	36 35	-02 22	6	0.5	3.5		ALBORAN

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
LGR	I	*	20 17 15.4	I	*	20 17 24.0	0.35	1.0	
EPF			20 17 30.6			20 17 53.0			
LPO		*	20 17 46.7			20 18 22.6			
LFF			20 17 47.3		*	20 18 23.6			

(PRIMER TRIMESTRE)

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
EBR	E		20 17 51.5			20 18 22.0			
GUD	E		20 17 51.5	E		20 18 31.0			
RJF			20 17 56.4			20 18 37.4			
CAF			20 17 57.6			20 18 38.4			
TOL	E	=	20 18 04.5	I	=	20 18 47.5	0.01	0.8	

01-ENE	HO	LAT	LONG	PRO	RMS	MAG	IO
SSIS	201706.5	42 59	-01 39	5	1.0	2.5	IRURZUN.NA

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
LGR	E		00 04 12.4	I	*	00 04 21.0			
EPF			00 04 30.5			00 04 52.8			
GUD		=	00 04 52.0	E	=	00 05 28.0			
RJF			00 04 56.6						
CAF			00 04 56.6			00 05 37.8			
TOL	E	=	00 05 09.0	E	=	00 05 50.0			

02-ENE	HO	LAT	LONG	PRO	RMS	MAG	IO
SSIS	000402.8	42 53	-01 49	5	1.0		IRURZUN.NA

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
ALM	I		12 17 54.9	I		12 17 59.8	1.69	0.2	
ALC	E		12 18 11.0			12 18 26.6			
CRT	I		12 18 13.3	E		12 18 27.0			
MAL	I	*	12 18 24.5	I		12 18 39.7	0.13	0.3	
TOL	E		12 18 45.0	I		12 19 25.0			
GUD	E		12 18 58.5	E		12 19 46.0			

02-ENE	HO	LAT	LONG	PRO	RMS	MAG	IO
SSIS	121752.4	36 38	-02 27	5	1.0	2.5	ALBORAN

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
ALM	I		22 00 24.6	I		22 00 29.5	0.54	0.3	
CRT	E		22 00 39.0						
ALC	I		22 00 41.0						
TOL	E	*	22 01 25.0	E	*	22 02 10.0			
GUD	E	=	22 01 28.0		=	22 02 18.0			

03-ENE	HO	LAT	LONG	PRO	RMS	MAG	IO
SSIS	220017.5	36 28	-02 21	5	0.6		ALBORAN

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
ALM	I		13 57 44.2	I		13 57 49.1	1.13	0.6	
ALR	E		13 57 58.0			13 58 10.0			
ALC	I		13 58 01.0	E		13 58 16.1			
CRT	I		13 58 01.5	I		13 58 16.5			
MAL	E	*	13 58 12.0	I	*	13 58 25.0	0.30	0.3	
TOL	E	*	13 58 41.0	E	*	13 59 30.0	0.02	0.8	
GUD	E		13 58 45.0	E		13 59 31.0			

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
04-ENE	HO		LAT LONG	PRO	RMS	MAG IO			
SSIS	135741.2		36 40 -02 20	13	0.4	2.8	ALBORAN		
ALM	I		05 20 24.3	I		05 20 28.9	0.44	0.4	
ALR	I		05 20 35.0	I		05 20 47.0			
PHE	I		05 20 39.4						
CRT	I		05 20 40.8						
SMO	I		05 20 43.9						
MAL	E		05 20 47.0	I	*	05 21 04.8	0.48	0.6	
ALI	E		05 20 53.5						
TOL	E	*	05 21 17.5	I	*	05 22 09.5			
GUD	E		05 21 23.0	E		05 22 14.3			
PRL	E		05 21 31.0						
MTH		*	05 21 36.5		*	05 23 35.0			
MTE		*	05 21 44.5	I	*	05 23 24.5			
LGR	E		05 21 45.5	E		05 22 51.5			
05-ENE	HO		LAT LONG	PRO	RMS	MAG IO			
SSIS	052017.3		36 33 -02 11	5	0.7	3.4	ALBORAN		
ALM	I		21 56 02.8					1.0	
ALR	I		21 56 11.0		*	21 56 19.0			
PHE	I		21 56 17.1						
ALC	I		21 56 18.8						
CRT	I		21 56 20.0						
SMO	I		21 56 22.0						
MAL	I		21 56 23.8				4.24	1.2	
LOJ	I		21 56 24.2						
ALI	E		21 56 31.9	I		21 56 57.0			
SFS		*	21 56 48.0		*	21 57 35.5			
TOL	I		21 56 51.6	I	*	21 57 50.5			
GUD	I		21 57 00.2			21 57 51.9			
EBR	E		21 57 07.0			21 58 00.0			
FAR	E	*	21 57 07.9		*	21 58 01.9			
PRL	I		21 57 08.4	I		21 58 05.1			
MTE	I		21 57 19.8	E		21 58 21.6			
LIS	E		21 57 22.0	E		21 58 27.0			
MTH	E		21 57 23.5	E		21 58 32.5			
LGR	I	*	21 57 24.8	I		21 58 26.3	1.29	1.2	
COI	I		21 57 25.1	I	*	21 58 29.9			
PTO	I		21 57 34.2	I	*	21 58 35.1			
EPF			21 57 35.0		*	21 58 43.3			
06-ENE	HO		LAT LONG	PRO	RMS	MAG IO			
SSIS	215555.1		36 30 -02 09	12	1.0	4.7 III	ALBORAN		

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
ALM	I		23 00 40.6	I		23 00 45.4	2.07	0.2	
ALR	I	*	23 00 45.0			23 01 04.0			
ALC	I		23 00 57.0						
MAL	E		23 01 04.5	I	*	23 01 15.8	0.30	0.3	
TOL	E	*	23 01 36.0	I	*	23 02 26.0			
GUD	E		23 01 41.6						

06-ENE	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	230037.0	36 37	-02 25	5	0.5	3.0		ALBORAN

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
ALM	I		00 07 14.4	I	*	00 07 19.2	0.83	0.5	
ALC	I		00 07 31.0						
MAL	E		00 07 40.0	I		00 07 57.5	0.06	0.5	
TOL	E	*	00 08 16.5	I	*	00 09 02.0	0.01	0.8	
GUD	E	*	00 08 36.3	E	*	00 09 41.0			

07-ENE	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	000712.7	36 44	-02 30	9	0.9	2.5		ALBORAN

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
ALM	I		08 28 05.3	I		08 28 10.1	3.07	0.7	
ALR	I		08 28 15.5		*	08 28 22.5			
PHE	E		08 28 20.5						
ALC	I		08 28 22.0						
CRT	I		08 28 22.7						
SMO	E		08 28 25.7						
LOJ	E		08 28 27.6						
MAL	I		08 28 29.5	I	*	08 28 40.5	0.30	0.6	
GUD	E		08 29 06.0			08 29 57.2			
TOL	I	*	08 29 07.0	I	*	08 29 50.5	0.08	0.9	
LGR	E	*	08 29 25.0	E	*	08 30 29.2			

07-ENE	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	082800.3	36 33	-02 20	5	0.7	3.4		ALBORAN

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
ALM	I		14 22 12.4	I		14 22 17.3	0.54	0.3	
ALR	E	*	14 22 27.0	E	*	14 22 31.5			
PHE	I		14 22 27.9						
ALC	I		14 22 29.0						
CRT	E		14 22 29.4	E		14 22 47.0			
SMO	I		14 22 33.0						
LOJ	E		14 22 35.7						
TOL	E	*	14 23 14.0	E	*	14 23 58.0			
GUD	E	*	14 23 26.0	E	*	14 24 26.0			

07-ENE	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	142206.8	36 39	-02 09	6	0.9			ALBORAN

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
ALM	I		13 44 08.6	I		13 44 13.5	0.89	0.3	
ALR	E		13 44 23.0						
ALC	I		13 44 24.9	E		13 44 40.9			
CRT	E		13 44 25.7			13 44 40.8			
MAL	I		13 44 32.5	I	*	13 44 45.2	0.16	0.4	
TOL	E	*	13 45 11.0	I	*	13 45 54.0	0.01	0.8	
GUD	E		13 45 12.6	E	*	13 46 09.3			

08-ENE	HO	LAT	LONG	PRO	RMS	MAG	IO	
SSIS	134406.3	36 39	-02 26	5	1.0	2.5		ALBORAN

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
ALM	I		17 37 00.6	I		17 37 5.6	0.99	0.3	
ALR	E		17 37 15.0						
ALC	I		17 37 16.9	E		17 37 32.0			
CRT	I		17 37 18.1	I		17 37 34.2			
MAL	E		17 37 25.5	I		17 37 44.0	0.17	0.5	
GUD	E		17 38 01.8	E		17 38 48.3			
TOL	E	*	17 38 02.5	I	*	17 38 49.0			

08-ENE	HO	LAT	LONG	PRO	RMS	MAG	IO	
SSIS	173658.1	36 40	-02 23	13	0.9	3.3		ALBORAN

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
MAL	I		15 05 45.7	I	*	15 05 58.4	2.60	0.6	
SFS	I		15 05 52.0	I		15 06 08.0			
SMO	I		15 05 54.4						
ALC	I		15 05 57.1	E		15 06 10.4			
CRT	I	*	15 05 57.1						
TOL	E		15 06 27.0	I		15 07 07.5			
GUD	I	*	15 06 27.1	E		15 07 25.0			
LGR	E		15 07 04.0	E	*	15 08 10.0			
COI	E	*	15 07 10.0	I		15 07 37.0			
EPF		*	15 07 19.2						

10-ENE	HO	LAT	LONG	PRO	RMS	MAG	IO	
SSIS	150532.6	36 15	-04 44	62	1.0	4.0	III	ALBORAN

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
MAL	E		09 48 33.0	I		09 48 44.8	0.96	0.6	
SFS	E		09 48 36.0		*	09 48 54.0			
CRT	I		09 48 43.7						
ALC	I		09 48 44.1	I	*	09 48 57.6			
ALM	I	*	09 49 15.7	I	*	09 49 30.2	0.20	1.3	
TOL	E		09 49 16.0	I		09 49 53.5			
LGR	E	*	09 49 47.6	E	*	09 50 52.0			
COI	E	*	09 50 25.0						

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
11-ENE	HO		LAT LONG	PRO	RMS	MAG	IO		
SSIS	094820.2		36 16 -05 07	31	1.0	3.3		S.ESTEPONA.MA	
ALM	I		10 08 26.1	E		10 08 30.1	2.67	0.8	
ALR	I		10 08 35.0		*	10 08 41.0			
PHE	E		10 08 40.9						
ALC	I		10 08 42.0						
CRT	I		10 08 43.1						
SMO	I		10 08 45.5						
LOJ	E		10 08 47.0						
MAL	I		10 08 47.0						
ALI	E		10 08 55.5	E		10 09 22.5			
TOL	I		10 09 15.0	E	*	10 10 05.0			
EBR		*	10 09 17.0						
GUD	I		10 09 25.5			10 10 14.7			
COI	E	*	10 09 29.3	I	*	10 10 53.2			
LGR	E	*	10 09 50.0		*	10 10 55.5	0.75	1.3	
EPF			10 09 58.2		*	10 11 07.8			
STS	E	*	10 10 20.0		*	10 11 53.5			
CAF			10 10 28.7						
LMR			10 10 36.2						
LRG			10 10 37.5						
CVF			10 10 49.2						
12-ENE	HO		LAT LONG	PRO	RMS	MAG	IO		
SSIS	100818.7		36 32 -02 11	5	0.7	4.3	III	ALBORAN	
MAL	E		11 33 32.0	I	*	11 33 35.8	0.66	0.5	
CRT	I		11 33 44.1						
ALC	I		11 33 44.9						
TOL	E		11 34 08.0	I		11 34 52.0	0.09	1.2	
GUD			11 34 16.0	E		11 35 10.5			
ALM	I	*	11 34 26.1	I		11 34 34.9	0.24	0.6	
12-ENE	HO		LAT LONG	PRO	RMS	MAG	IO		
SSIS	113304.3		36 15 -06 25	5	1.1	3.3		GOLFO DE CADIZ	
ALM	I					14 41 33.7	0.36	0.3	
PHE	I	*	14 41 45.5						
ALC	I		14 41 46.0						
SMO	E		14 41 50.3						
LOJ	I		14 41 53.6						
CRT	E	*	14 42 02.0						

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR

12-ENE	HO	LAT	LONG	PRO	RMS	MAG	IO	
SSIS	144130.7	36 57	-02 22	5	1.0		PECHINA.AL	
ALM	I	* 17 17 51.6		I		17 17 56.4	0.72	0.4
PHE	I	* 17 18 07.7		I		17 18 26.3		
ALC	I	17 18 09.1						
CRT	E	17 18 09.5						
SMO	E	17 18 12.7						
LOJ	I	17 18 17.6		I		17 18 38.0		

12-ENE	HO	LAT	LONG	PRO	RMS	MAG	IO	
SSIS	171751.0	36 58	-02 18	5	0.7		NIJAR.AL	
ALM	I	18 14 14.9		I		18 14 19.5	0.41	0.3
PHE	E	18 14 31.3						
ALC	I	18 14 31.9						
CRT	E	18 14 32.5						
SMO	I	18 14 35.2						

12-ENE	HO	LAT	LONG	PRO	RMS	MAG	IO	
SSIS	181409.7	36 35	-02 15	5	0.5		ALBORAN	
FAR	I	18 40 31.6		I		18 40 39.0		
LIS	I	18 40 59.3				18 41 26.6		
MTH	I	18 41 01.6		I		18 41 31.5		
MAL	I	18 41 01.7		I		18 41 31.0	0.41	0.4
PRL	I	18 41 02.1		I		18 41 33.5		
ALC	I	18 41 11.8		E		18 41 49.9		
COI	I	18 41 15.3		I		18 41 55.3		
ALM	I	* 18 41 16.9		I	*	18 41 30.3	0.14	0.9
TOL	E	18 41 25.0		E		18 42 12.0		
PTO	E	* 18 41 25.3		I		18 42 16.8		
MCV		18 41 27.7		I		18 42 16.8		
GUD	I	18 41 32.4		I		18 42 24.3		
CRT	E	* 18 41 47.5						
LGR	E	18 42 03.5		E		18 43 18.5		
EPF		18 42 28.6			*	18 43 59.5		
STS	E	* 18 42 57.7						

12-ENE	HO	LAT	LONG	PRO	RMS	MAG	IO	
SSIS	184022.9	36 42	-07 35	24	0.6	3.3	GOLFO DE CADIZ	
MAL	I	= 10 37 21.0		I	=	10 37 31.0	0.86	0.6
SFS	I	10 37 23.0			*	10 37 40.0		

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
ALC	I		10 37 32.0						
CRT	I		10 37 32.5	E		10 37 54.0			
ALR	E		10 37 45.0						
ALM	I	*	10 37 48.3	I	*	10 38 21.8	0.33	1.3	
TOL	E	*	10 38 01.0	I		10 38 29.0			
GUD	E		10 38 03.3	E		10 38 43.0			
LGR	E	*	10 38 42.0	E	*	10 39 47.0			
COI		*	10 38 54.2		*	10 39 13.6			

13-ENE	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	103707.4	37 07	-05 28	10	1.0	3.6		MORON.SE

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
ALM	I		01 20 41.0	I		01 20 45.8	2.14	0.4	
ALR	E		01 20 53.0	E		01 21 06.0			
ALC	I		01 20 58.0						
CRT	I		01 20 58.4	I		01 21 15.2			
MAL	I		01 21 05.6	I	*	01 21 24.0	0.23	0.4	
TOL	E	*	01 21 43.0	E		01 22 11.0			
GUD	E	*	01 21 55.9	E	*	01 22 51.0			

14-ENE	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	012035.3	36 37	-02 11	6	0.2	3.5		ALBORAN

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
ALM	I		01 28 01.4	I		01 28 6.1	3.66	0.4	
ALR	E		01 28 11.0						
ALC	I		01 28 18.0						
CRT	I		01 28 19.1	I	*	01 28 36.4			
MAL	E		01 28 24.5	I		01 28 45.0			
TOL	E	*	01 28 59.0	E		01 29 35.0			
GUD	E		01 29 01.8	E		01 29 50.0			
LGR	E		01 29 25.5	E		01 30 30.5			

14-ENE	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	012756.4	36 32	-02 23	5	0.9	3.1		ALBORAN

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
ALM	I		16 39 23.9	I		16 39 28.5	0.95	0.3	
ALR	E		16 39 38.0						
ALC	I		16 39 40.2	I		16 39 58.4			
CRT	I		16 39 42.8						

14-ENE	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	163918.0	36 44	-02 05	5	0.6			ALBORAN

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
LGR	E	*	16 17 53.2	I	*	16 18 03.5	0.59	0.9	
EPF		*	16 18 09.7			16 18 32.8			

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
LFF			16 18 27.3			16 19 01.6			
LPO			16 18 28.8			16 19 02.7			
EBR	E		16 18 31.0			16 19 00.5			
TOL	E	*	16 18 46.0	E	*	16 19 26.0	0.03	0.8	
STS	E		16 19 02.3		*	16 20 20.0			

19-ENE	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	161746.4	42 57	-01 40	5	1.0	3.0	IRURZUN.NA	

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
ALM	I		10 09 08.9				1.82	0.8	
ALR			10 09 22.0			10 09 30.0			
PHE	I		10 09 23.8						
ALC	I		10 09 24.9						
CRT	I		10 09 25.8						
SMO	I		10 09 28.2						
LOJ	I		10 09 29.7						
MAL	E		10 09 33.0	I		10 09 52.5	0.14	0.4	

20-ENE	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	100905.7	36 36	-02 29	5	0.9	3.2	ALBORAN	

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
ALM	I	*	21 52 21.2				2.55	1.2	
ALR	E		21 52 31.5	E		21 52 37.0			
PHE	I		21 52 35.7						
ALC	I		21 52 37.0						
CRT	I		21 52 38.5						
SMO	I		21 52 40.5						
LOJ	I		21 52 43.8						
MAL	E		21 52 46.0	I		21 53 03.0	0.38	0.5	
ALI	E		21 53 05.0						
TOL	E		21 53 15.5						
GUD	E	*	21 53 34.7	E	*	21 54 31.6			
EBR	E		21 53 39.0						
COI	E		21 53 46.3	E	*	21 54 48.0			
LGR	E		21 53 50.2	E	*	21 54 52.7			

20-ENE	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	215221.0	36 27	-02 50	5	1.0	3.4	ALBORAN	

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
ALM	I		09 10 11.2	I		09 10 15.9	0.01	1.0	
ALR	I		09 10 20.0		*	09 10 28.0			
PHE	I		09 10 25.7						
ALC	I		09 10 27.0						
CRT	I		09 10 28.8						
LOJ	E		09 10 32.5						
MAL	I		09 10 33.0				1.36	0.6	

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
ALI	E		09 10 41.7	E		09 11 08.5			
TOL	E	*	09 11 04.0	E		09 11 40.0			
GUD	I		09 11 10.8	I		09 11 58.2			
EBR	E		09 11 15.0	E		09 12 10.0			
LGR	E		09 11 32.1	I		09 12 34.2	0.82	1.6	
COI	I	*	09 11 37.3	I		09 12 38.3			
EPF			09 11 44.1						
STS	E		09 12 01.0		*	09 13 34.5			

21-ENE	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	091005.1	36 33	-02 18	13	0.8	4.2		ALBORAN

STS	E	=	12 39 13.0		=	12 39 46.0			
MCV	I		12 39 43.2	I		12 40 35.8			
MTE	E	*	12 39 49.4	I	*	12 40 28.1			
GUD			12 40 13.2	I		12 41 27.7			
MFF			12 40 40.9						
EPF			12 40 45.5						
LFF			12 40 45.6						
CAF		*	12 40 56.6						
TCF			12 41 01.9						
MZF			12 41 04.6						
TOL	E	*	12 41 19.0	E	*	12 41 55.0	0.02	0.8	

22-ENE	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	123833.2	44 02	-12 03	5	0.6	2.9		ATLANTICO

LIS		16 35 14.2		16 36 02.0
PTO	I	16 35 19.3		
COI	I	16 35 19.6		16 36 06.4
MTE	I	16 35 28.1	E	16 36 26.0
PRL	I	16 35 30.5		
MCV		16 35 33.0	E	16 36 34.0
STS	E	16 35 34.3		
FAR	I	16 35 34.5		16 36 37.5
FUL	I	16 35 51.5	I	16 37 05.0
SFS	I	16 35 56.0	*	16 36 13.0
GUD	I	16 36 04.0	E	16 37 27.0
TOL	I	16 36 05.2	I	16 37 27.0
LOJ	I	16 36 11.7		
SDCA	I	16 36 12.0	I	16 37 41.5
MTSA	I	16 36 13.7	I	16 37 42.8
RIB	E	16 36 14.5	I	16 37 45.0
LFA	I	16 36 14.5	I	16 37 45.0
CML	I	16 36 14.9	I	16 37 46.1
FAC	I	16 36 16.2	I	16 37 48.9
PDA	I	16 36 16.3	I	16 37 49.0

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
ALC	I		16 36 16.5						
PHE	I		16 36 16.8						
CRT	I		16 36 17.0						
LGR	I		16 36 25.5	I		16 38 02.0			
ALR	I		16 36 29.0						
ADH	I		16 36 29.8						
ASBA	I		16 36 30.9						
CALA	I		16 36 48.1						
EBR	E		16 36 51.0	E		16 38 50.0			
ALI	E	*	16 36 56.5	E		16 38 37.3			

24-ENE	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	163408.8	39 42	-14 35	33	2.0	6.2	IV	ATLANTICO

EPF			20 38 58.9						
LGR	E		20 39 22.5	I		20 39 44.4	0.18	0.8	
LFF			20 39 22.8						
LPO		*	20 39 26.1		*	20 39 52.5			
CAF			20 39 30.0						
EBR	E	*	20 39 34.0						
RJF		*	20 39 37.7		*	20 40 12.6			
LSF			20 39 41.3			20 40 20.5			
TCF			20 39 44.9						
MZF			20 39 47.2						
GUD	E		20 39 50.8	E	*	20 40 29.0			
MFF		*	20 39 54.5						
TOL	E		20 39 59.0	E	*	20 41 09.0			

24-ENE	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	203851.8	43 10	-00 09	12	0.6	3.5		PONTACQ.FR

ALM	I	*	01 37 30.2	I		01 37 34.8	0.75	0.5
ALR	E		01 37 46.0					
ALC	I		01 37 47.0					
CRT	I		01 37 47.7					
TEL	I	*	01 38 25.8					
TOL	E	*	01 38 39.0	E	*	01 39 18.0		

25-ENE	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	013730.0	36 44	-02 34	5	0.2			ALBORAN

ALM	I		01 47 40.9	I		01 47 45.8	3.23	0.6
ALR	I	=	01 47 53.0	I	=	01 48 06.0		
ALC	I		01 47 57.1					
CRT	I		01 47 58.0					
MAL	I	*	01 48 01.5	I		01 48 24.5	0.44	0.4

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
TOL	E		01 48 33.0	E		01 49 10.0			
TEL	I	*	01 48 37.5	I	*	01 48 58.3			
GUD	E		01 48 40.6	E		01 49 31.0			
LGR	E		01 49 03.0	E		01 50 08.3			

26-ENE	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	014738.4	36 39	-02 27	9	1.0	3.5		ALBORAN

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
FAR	I		03 21 25.7	I		03 21 41.2			
SFS	I		03 21 26.5	I		03 21 39.5			
MAL	I		03 21 45.5				0.93	0.3	
LOJ	I		03 21 51.6						
LIS	I		03 21 53.1	E		03 22 29.2			
PRL	I		03 21 56.6			03 22 35.0			
CRT	I		03 21 57.8	I		03 22 35.7			
ALC	I		03 21 58.1						
COI	E		03 22 10.3	E		03 22 58.7			
MTE			03 22 11.6			03 23 00.5			
TOL	E		03 22 16.5	I		03 23 08.0	0.07	0.8	
MCV	I	*	03 22 20.3	I	*	03 23 17.0			
PTO	I		03 22 22.5	I	*	03 23 18.7			
GUD	I		03 22 25.3	E		03 23 22.7			
STS	E	*	03 22 56.0						
LGR	E		03 22 56.8	I	*	03 24 19.3			
EBR	E		03 23 01.0	E		03 24 26.0			
EPF			03 23 18.7		*	03 24 56.7			
LFF			03 23 40.6		*	03 25 34.8			

26-ENE	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	032106.6	36 03	-07 24	7	0.6	3.4		GOLFO DE CADIZ

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
ALM	I		09 20 08.1	I		09 20 13.0	0.06	0.5	
ALR	I	*	09 20 22.0		*	09 20 33.0			
ALC	I		09 20 24.1						
CRT	I		09 20 25.0		*	09 20 42.5			
MAL	E		09 20 32.0	I		09 20 52.3	0.21	0.4	
TOL	E	*	09 21 02.5	E		09 21 39.0			
TEL	I	*	09 21 05.8	I	*	09 21 29.0			
GUD	E		09 21 08.3	E		09 21 55.7			
LGR	E		09 21 30.0	E		09 22 37.0			

27-ENE	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	092003.4	36 35	-02 22	7	0.6	3.1		ALBORAN

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
MAL	I		22 16 34.5	I		22 16 44.2	0.59	0.3	
CRT	E		22 16 43.4	I		22 17 00.3			

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
ALC	I		22 16 44.0						

29-ENE	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	221621.1	37 08	-05 10	8	0.1		OSUNA.SE	

ALM	I		07 55 55.5	I	*	07 56 00.1	0.54	0.2	
ALC	E		07 56 12.8						
CRT	E	*	07 56 15.5						
ABA	I		07 56 37.0						

31-ENE	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	075541.2	36 33	-01 28	5	1.0		ALBORAN	

ALR	E		05 10 17.5	E		05 10 30.0			
MAL	E	*	05 10 18.0	I		05 10 40.5	0.37	0.3	
PHE	I		05 10 27.7	E	*	05 10 49.0			
LOJ	I		05 10 30.3						
ALC	E		05 10 33.9						
SMO	I		05 10 36.4						
CRT	E	*	05 10 36.7						

04-FEB	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	051004.6	35 39	-03 56	5	1.0		ALBORAN	

EPF		*	17 46 46.1						
EBR	E		17 46 49.5	E	*	17 47 08.0			
LGR	E	*	17 47 10.0	E		17 47 35.0			
LPO			17 47 13.1			17 47 47.3			
LFF			17 47 15.9			17 47 53.4			
CAF			17 47 18.9			17 47 57.0			
GUD	E		17 47 25.7	E		17 48 09.3			
MZF			17 47 36.8						

04-FEB	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	174628.8	41 55	00 30	5	0.6		BINEFAR.HU	

ALM	I		04 38 18.1	I		04 38 21.1	0.24	0.3	
PHE	E		04 38 32.3	E		04 38 48.5			
ALC	E		04 38 34.0						
SMO	I	*	04 38 39.7						

05-FEB	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	043812.6	36 35	-02 22	5	0.5		ALBORAN	

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
MAL	I		08 08 28.5						
LOJ			08 08 32.3						
SFS		*	08 08 35.0			08 08 44.0			
PHE			08 08 38.3						
CRT	I		08 08 40.4						
ALC	I		08 08 41.0						
ALR	E		08 08 50.5	I		08 09 18.0			
ALM	I	*	08 08 55.0	I	*	08 09 28.0	1.81	1.5	
PRL			08 08 59.5			08 09 32.5			
FAR		*	08 09 01.5		*	08 09 25.0			
TOL	E		08 09 04.0	I		08 09 39.0			
MTH			08 09 10.9			08 09 52.9			
GUD	I		08 09 12.6	I		08 09 53.8			
MTE			08 09 12.8		*	08 10 13.0			
COI	I		08 09 16.2	I		08 10 00.1			
LGR	E		08 09 41.0	E		08 10 46.5	0.71	1.0	
STS	E		08 09 48.0	E	*	08 11 03.0			
EBR	E	*	08 09 59.0		*	08 11 21.0			
EPF			08 10 03.1		*	08 12 07.4			
LFF			08 10 26.3						
LPO			08 10 29.0						
CAF		*	08 10 32.4						

08-FEB	HO	LAT	LONG	PRO	RMS	MAG	IO	
SSIS	080814.9	37 03	-05 19	5	0.8	4.1	IV	MORON.SE

ALM	I	*	23 28 27.5	I		23 28 35.0	0.30	0.3	
PHE	I		23 28 43.5	E		23 28 58.6			
ALC	I		23 28 44.1						
SMO	I		23 28 48.3						

09-FEB	HO	LAT	LONG	PRO	RMS	MAG	IO	
SSIS	232824.7	36 32	-02 30	5	0.6			ALBORAN

PHE	I		16 54 28.1						
CRT	I		16 54 31.2	I		16 54 34.7			
ALC	I		16 54 31.8						
LOJ	I		16 54 32.7						
SMO	I		16 54 32.8						
MAL	I		16 54 37.3	I		16 54 46.3	1.29	0.4	
ALM	I		16 54 43.9	I		16 55 01.1	0.21	0.5	
GUD	E		16 55 25.0						

23-FEB	HO	LAT	LONG	PRO	RMS	MAG	IO	
SSIS	165426.9	36 59	-03 45	5	0.8	3.6		PADUL.GR

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
ALM	I		10 50 43.6	I		10 50 48.2	6.42	0.7	
ALC	I		10 51 00.5						
CRT	I		10 51 01.0						
MAL	I		10 51 04.5	I		10 51 28.3	1.02	0.5	
TEL	I		10 51 07.0	I		10 51 29.9			
ACU	I		10 51 15.0	E	*	10 51 43.5			
TOL	E		10 51 33.2	I		10 52 14.5	0.38	0.8	
GUD	I		10 51 43.1	E		10 52 34.0			
EBR	E	*	10 51 51.0						
LGR	E		10 52 04.5	I		10 53 11.2	0.34	1.1	
COI	E		10 52 07.0	E	*	10 53 11.0			
EPF			10 52 16.5						
STS	E	*	10 52 40.0		*	10 54 14.0			

27-FEB	HO	LAT	LONG	PRO	RMS	MAG	ID
SSIS	105036.1	36 29	-02 13	5	0.8	4.1	ALBORAN

ALM	I		10 59 03.9	I		10 59 8.4	9.20	1.5	
ALC	I		10 59 20.0						
CRT	I		10 59 20.5						
MAL	I		10 59 27.0	I		10 59 46.5	0.95	0.4	
TEL	I		10 59 27.5	I		10 59 50.4			
ACU	I		10 59 35.2	E		11 00 03.4			
TOL	E	*	10 59 56.5	E		11 00 36.0	0.21	0.8	
GUD	E		11 00 03.5						
EBR	E		11 00 12.0						
LGR	E		11 00 25.2	E		11 01 30.7	0.32	1.3	
COI	E		11 00 26.3	I		11 01 32.0			
EPF			11 00 36.3						

27-FEB	HO	LAT	LONG	PRO	RMS	MAG	ID
SSIS	105857.2	36 31	-02 15	10	1.0	3.9	ALBORAN

ALM	I	*	16 28 58.9	I	*	16 29 05.7	1.08	0.4	
PHE	I		16 29 15.5						
ALC	I		16 29 17.9						
CRT	E		16 29 18.0	0		16 29 33.8			
SMO	I		16 29 20.8						
LOJ	E		16 29 22.5						
MAL	I		16 29 22.8	I		16 29 43.0	0.30	0.3	
TEL	I		16 29 25.0						
TOL	E	*	16 30 04.0	E	*	16 30 51.5	0.15	0.8	
GUD	E	*	16 30 16.5	E	*	16 31 12.0			

27-FEB	HO	LAT	LONG	PRO	RMS	MAG	ID
SSIS	162855.3	36 16	-02 34	5	0.5	3.7	ALBORAN

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
ALC	E		20 43 28.0						
CRT	E		20 43 29.0						
EBR	E		20 43 44.0						
TOL	E		20 43 50.0	E		20 44 40.0			140
GUD	I		20 43 58.3						

01-MAR	HO	LAT	LONG	PRO	RMS	MAG	IO	
SSIS	204243.3	36 45	00 05	17	0.2			MEDITERRANEO

ALM	I		21 52 56.9	I		21 53 07.0	0.89	0.4	156
ALC	E		21 53 13.7						
CRT	I		21 53 14.8						
MAL	I		21 53 19.4	I		21 53 39.5	0.22	0.3	80
GUD	E	*	21 54 04.0						

01-MAR	HO	LAT	LONG	PRO	RMS	MAG	IO	
SSIS	215248.8	36 19	-02 19	5	1.0			ALBORAN

ALI	E		10 35 39.7	E		10 35 54.5	0.76	0.8	55
ALC	E	*	10 35 49.8	E		10 36 14.4			130
CRT	E		10 35 52.5	E	*	10 36 18.0			
GUD	E		10 36 17.3	E		10 36 58.6			110

04-MAR	HO	LAT	LONG	PRO	RMS	MAG	IO	
SSIS	103522.5	37 46	-01 31	5	0.5			TOTANA.MU

EPF			13 18 47.1			13 18 58.2			
LGR	E		13 19 00.0	I		13 19 19.5			70
LPO			13 19 13.1						
LFF			13 19 13.6						
CAF			13 19 20.5			13 19 56.7			

04-MAR	HO	LAT	LONG	PRO	RMS	MAG	IO	
SSIS	131832.4	42 26	-00 24	5	0.3			SABIÑANIGO.HU

ALM	I		07 44 08.6	I		07 44 12.1	2.64	0.4	167
ALR	E		07 44 22.0	E		07 44 35.0			
ALC	I		07 44 25.0						180
CRT	I	*	07 44 27.5	I		07 44 41.3			
MAL	I		07 44 31.0	I	*	07 44 48.0	0.66	0.3	80
TOL	E	*	07 44 56.0	I		07 45 39.0	0.07	0.8	125
GUD	E		07 45 08.9	E	*	07 45 54.0			150
LGR	E		07 45 32.5	E		07 46 37.5			180
PRL	E	*	07 45 36.0						

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
08-MAR	HO		LAT LONG	PRO	RMS	MAG	ID		
SSIS	074405.6		36 40 -02 24	5	1.0	3.4	ALBORAN		
FAR	I	*	16 59 52.4						
MAL	I	*	17 00 00.0	I		17 00 28.0	0.24	0.3	
PRL	E		17 00 09.2	I	*	17 00 39.5			
MTH	E		17 00 10.7	I		17 00 42.0			
ALC	E		17 00 12.5						
LIS	E	*	17 00 16.0			17 00 38.6			
COI	E	*	17 00 17.0	E		17 01 01.7			
MTE	I		17 00 23.9	I		17 01 05.1			
MCV	I	*	17 00 26.0	I	*	17 01 15.6			
PTO	E		17 00 34.3	I		17 01 23.7			
GUD	E		17 00 35.0	E		17 01 22.0			150
TOL	E	*	17 00 58.0	E	*	17 01 29.0	0.02	0.8	90
09-MAR	HO		LAT LONG	PRO	RMS	MAG	ID		
SSIS	165930.3		36 56 -06 58	14	0.8	2.8	GOLFO DE CADIZ		
ALI	E		19 35 26.8	I		19 35 38.2	2.50	0.3	85
EBR	E		19 35 41.0	E	*	19 36 07.0			
ALC	E	*	19 35 52.0						
TOL	E		19 35 54.5	E		19 36 27.5	0.04	0.8	125
GUD	E		19 35 59.0	E	*	19 36 32.0			160
LGR	E		19 36 06.0	E	*	19 36 49.5	0.22	1.2	140
EPF			19 36 11.1						
LPO			19 36 34.0						
CAF			19 36 39.0						
09-MAR	HO		LAT LONG	PRO	RMS	MAG	ID		
SSIS	193511.6		39 12 -00 32	15	0.4	3.0	ALCIRA.V		
MAL						10 16 59.0	0.10	0.3	
ALM	I		10 16 18.3	I		10 16 22.2	0.43	0.4	104
CRT	E		10 16 31.5	E	*	10 16 51.5			
ALC	I		10 16 35.0						90
TOL	E	*	10 17 15.0	E	*	10 18 05.0			75
13-MAR	HO		LAT LONG	PRO	RMS	MAG	ID		
SSIS	101615.1		36 40 -02 34	10	1.0	3.1	ALBORAN		
EPF		*	15 07 47.2						
FBR	I		15 08 10.8	I		15 08 35.0			
EBR	E		15 08 11.0		*	15 08 36.5			

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
LGR	E		15 08 16.3	I		15 08 45.2	0.32	1.3	110
LPO			15 08 18.4						
LFF			15 08 20.8						
CAF			15 08 24.5						
RJF			15 08 26.8						
GUD	E	*	15 08 47.0						

15-MAR	HO	LAT	LONG	PRO	RMS	MAG	IO
SSIS	150741.7	42 33	00 22	5	0.8	3.2	PLAN.HU

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
LGR	E		18 19 39.0	I		18 19 47.5	2.78	1.3	115
GUD	I		18 20 05.3	I		18 20 33.0			75
EPF			18 20 13.1			18 20 44.8			
RJF			18 20 35.5						
CAF			18 20 37.2						
LSF			18 20 45.0						

16-MAR	HO	LAT	LONG	PRO	RMS	MAG	IO
SSIS	181930.3	42 39	-03 11	5	0.6		MIRANDA DE EBRO.BU

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
ALM	I		12 14 11.0	I		12 14 15.7	1.89	0.4	147
ALR	E		12 14 21.0						
ALC	I		12 14 28.0						
MAL	E		12 14 34.0	I		12 14 54.5	0.24	0.3	70
TOL	E	*	12 15 04.0				0.02	0.8	120
GUD	E		12 15 13.0						

19-MAR	HO	LAT	LONG	PRO	RMS	MAG	IO
SSIS	121406.7	36 34	-02 27	5	0.7	2.8	ALBORAN

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
ALM	I		06 59 20.0	I		06 59 24.8			523
ALR	I		06 59 30.0	I	*	06 59 39.0			170
ALC	E	*	06 59 33.0	I	*	06 59 36.1			
CRT	I		06 59 36.8						
MAL	I		06 59 41.2	I	*	07 00 01.2	3.00	0.9	240
ALI	E		06 59 49.0	E	*	07 00 14.8			
SFS	E	*	07 00 09.5	E	*	07 00 49.0			
TOL	I		07 00 09.6	I	*	07 00 56.0	0.80	0.8	450
GUD	I		07 00 20.0	I		07 01 07.3			360
EBR	E		07 00 24.5		*	07 01 23.0			
PRL	E		07 00 26.6		*	07 01 49.0			
MCV	I	*	07 00 32.1	I	*	07 02 12.1			
MOT	E		07 00 33.3			07 01 30.0			
MTE	E		07 00 37.5	I	*	07 02 20.5			
FBR	I		07 00 39.7	E		07 01 46.0			
LGR	I		07 00 42.1	E	*	07 01 50.3	1.45	1.4	350

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
CDI	I		07 00 42.7		*	07 01 47.3			
MTH	I		07 00 43.4			07 01 49.3			
PTO	I		07 00 52.0		*	07 02 03.0			
EPF			07 00 52.8			07 02 08.0			
STS	E	*	07 01 14.0	E	*	07 02 48.0			203
CAF			07 01 22.8		*	07 02 57.2			
LRG			07 01 30.8						

20-MAR	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	065913.3	36 33	-02 12	6	0.8	4.4	III	ALBORAN

ALM	I		21 12 58.2	I		21 13 02.7				240
ALR			21 13 09.5			21 13 19.0				115
ALC	I		21 13 15.0							190
CRT	I		21 13 15.3							
MAL	I		21 13 21.0	I		21 13 41.2	0.96	0.3		110
ALI	E		21 13 29.0	E		21 13 54.5	1.00	0.8		110
TOL	E		21 13 47.5				0.10	0.8		175
GUD	I		21 13 58.3		*	21 14 32.0				180
PRL	E		21 14 05.3		*	21 15 03.1				
MOT	E		21 14 10.1							
MCV	E	*	21 14 10.5	E	*	21 15 57.0				
MTE	E		21 14 15.5							
LGR	E	*	21 14 22.4	I	*	21 15 29.4	0.35	1.4		185
EPF		*	21 14 33.8			21 15 42.6				
CVF			21 15 22.1							

21-MAR	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	211252.8	36 35	-02 16	14	0.9	3.5		ALBORAN

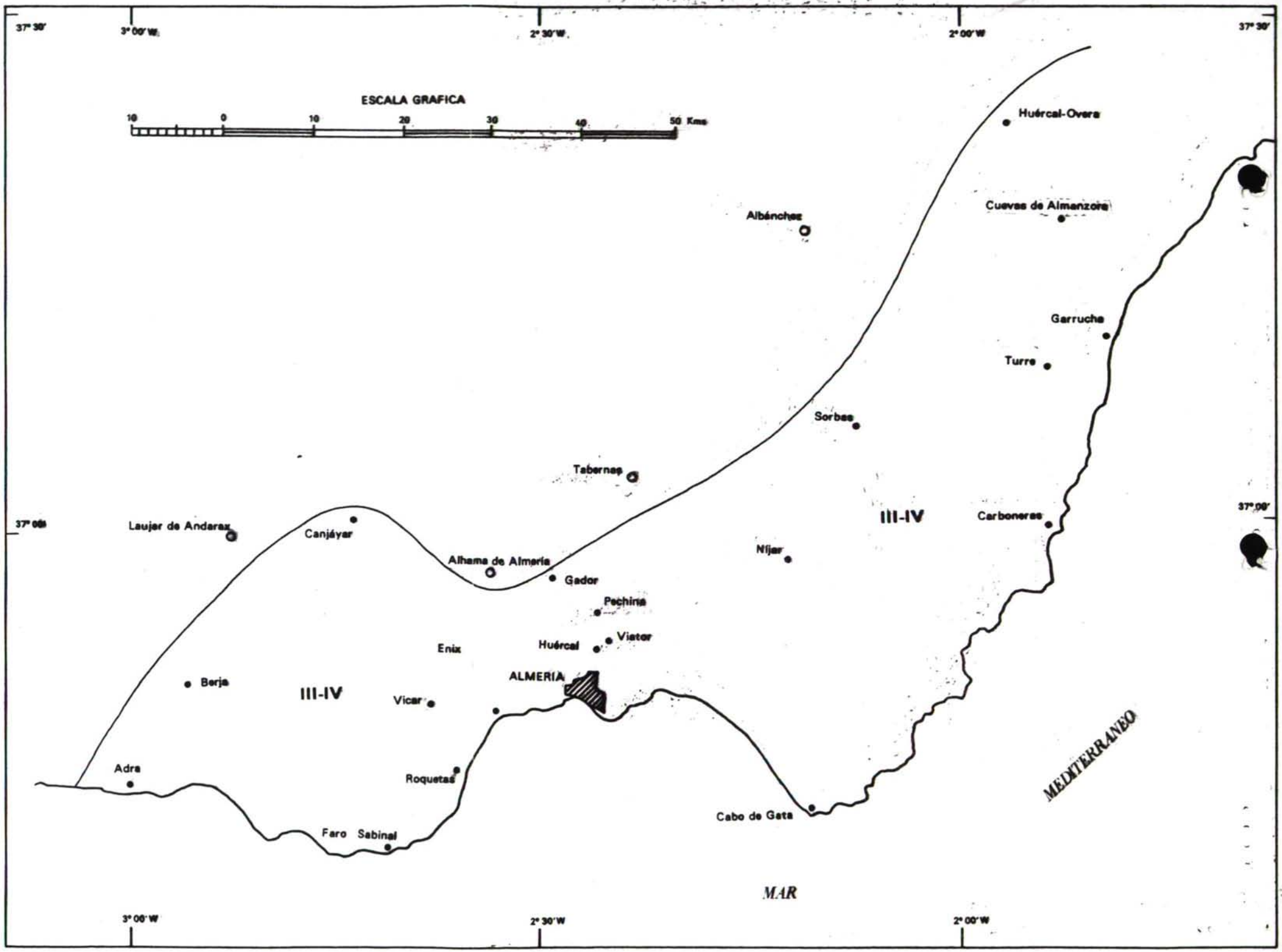
LGR	E		16 55 10.5	I		16 55 19.0	4.28	1.3		95
GUD	E		16 55 37.2							
EPF			16 55 43.4			16 56 15.3				
RJF			16 56 07.5							
CAF			16 56 09.0							

28-MAR	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	165501.5	42 39	-03 11	5	0.4			MIRANDA DE EBRO.BU

EPF			18 11 32.2							
LGR	E		18 11 48.0	I		18 12 10.0				75
LPO			18 11 53.8							
LFF			18 11 57.7			18 12 24.5				
CAF			18 12 00.8							
EBR	E	*	18 12 05.0	E	*	18 12 35.0				
GUD	E		18 12 15.6							

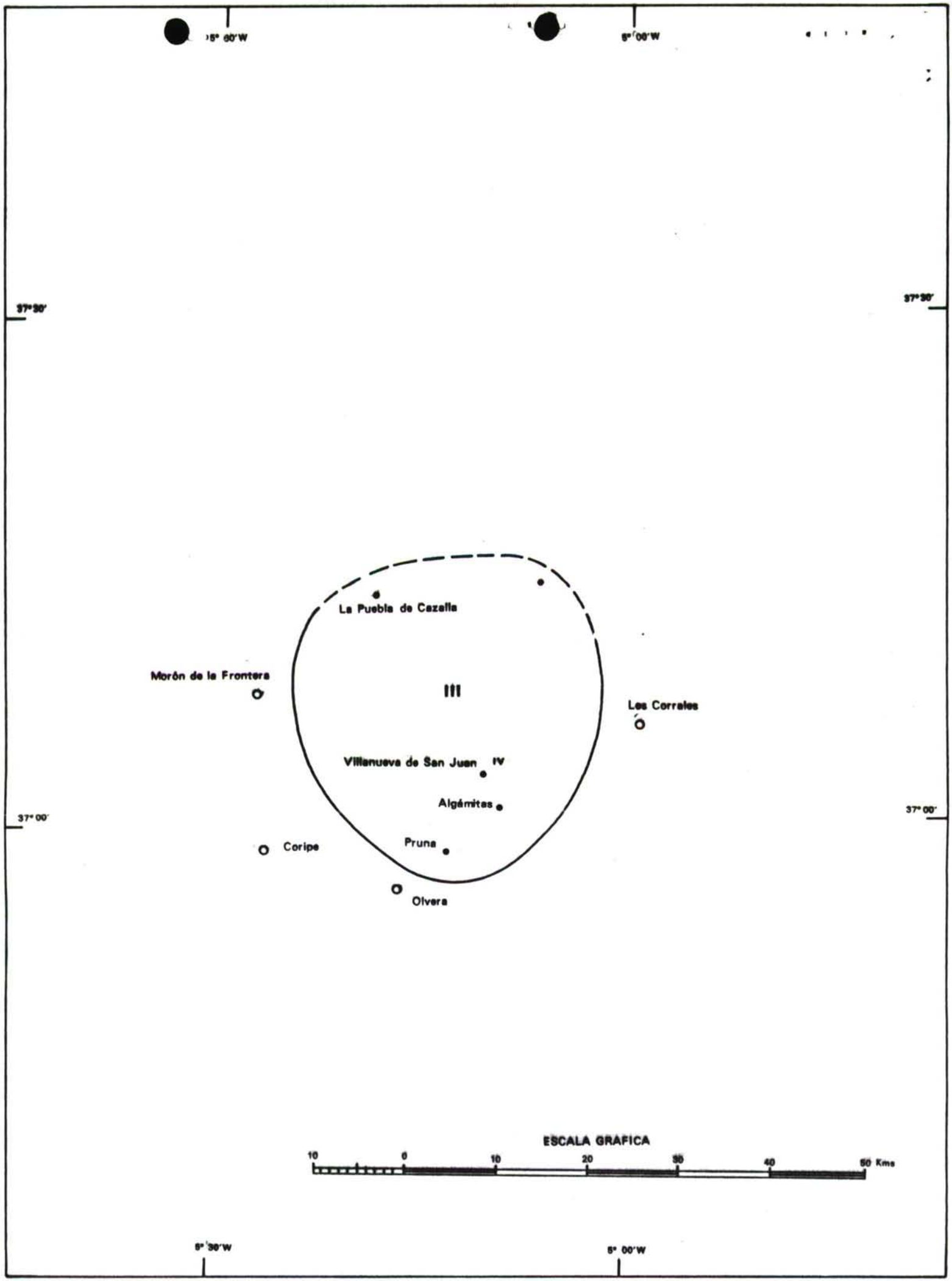
EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR

30-MAR	HO	LAT	LONG	PRO	RMS	MAG	ID
SSIS	181120.4	42 37	-00 03	57	0.9	3.2	SABIÑANIGO.HU



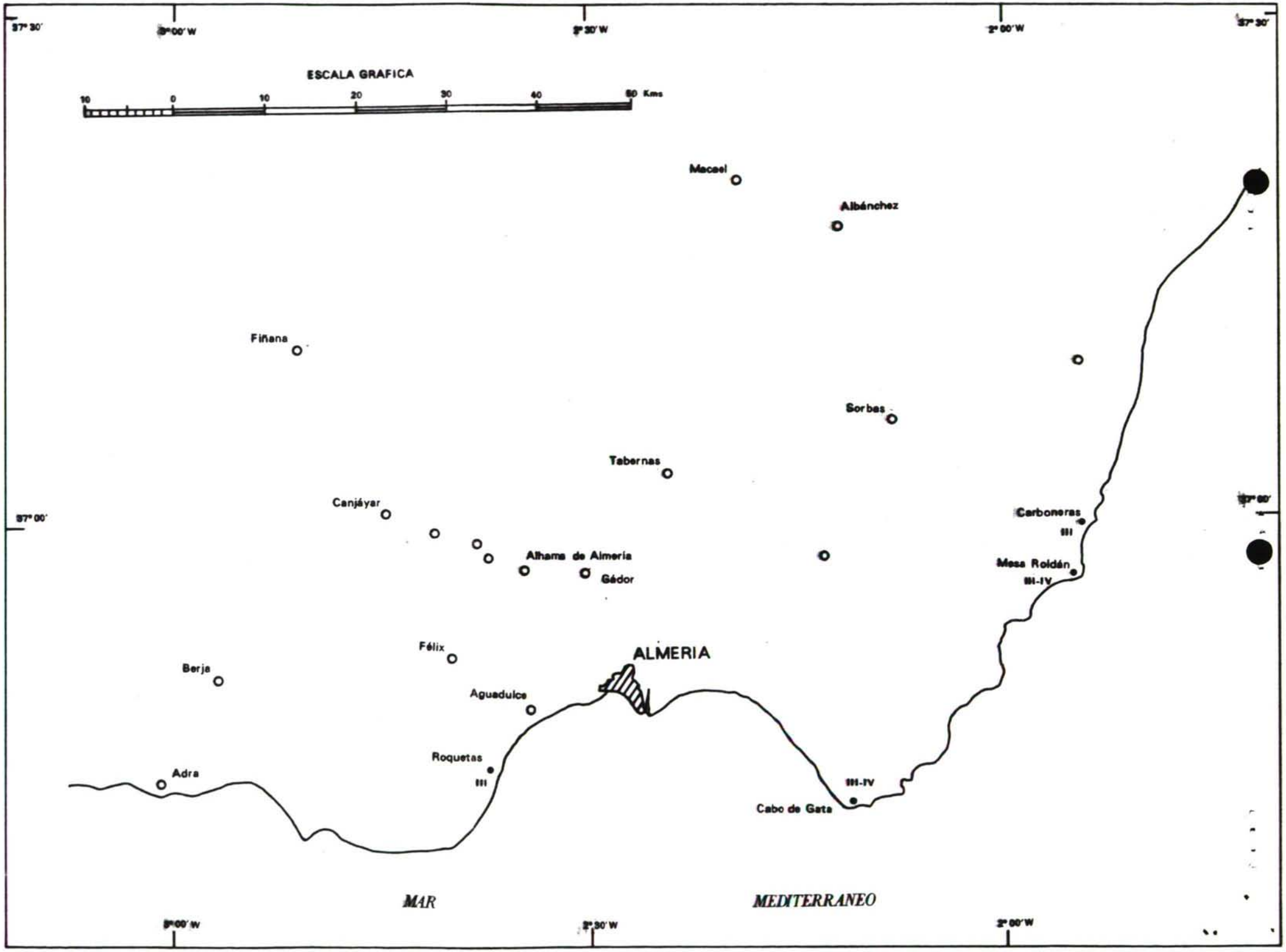
FECHA

6-ENERO-1983



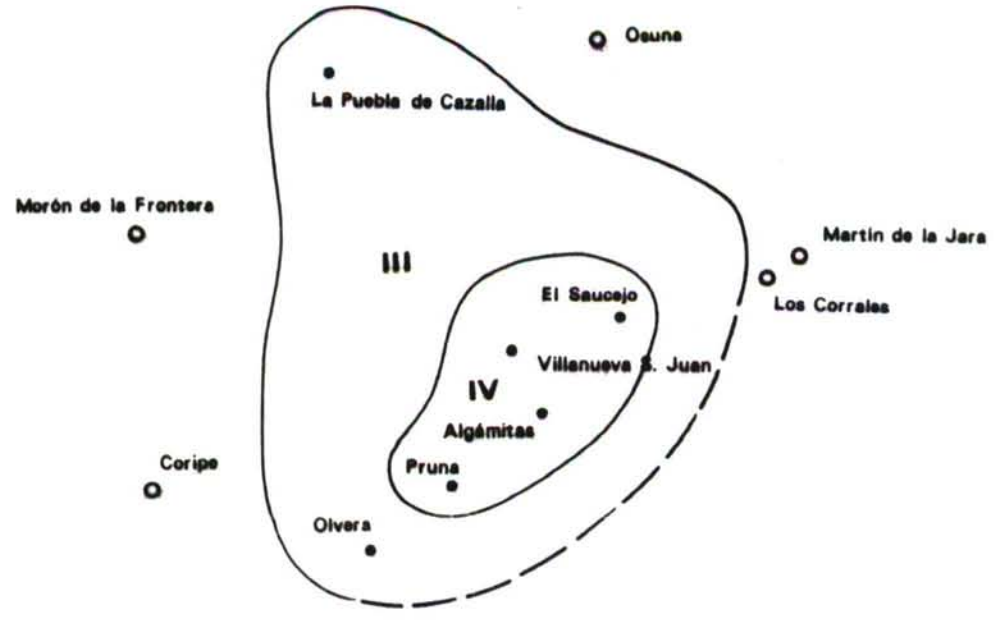
FECHA

10-ENERO-1983



FECHA

12-ENERO-1983

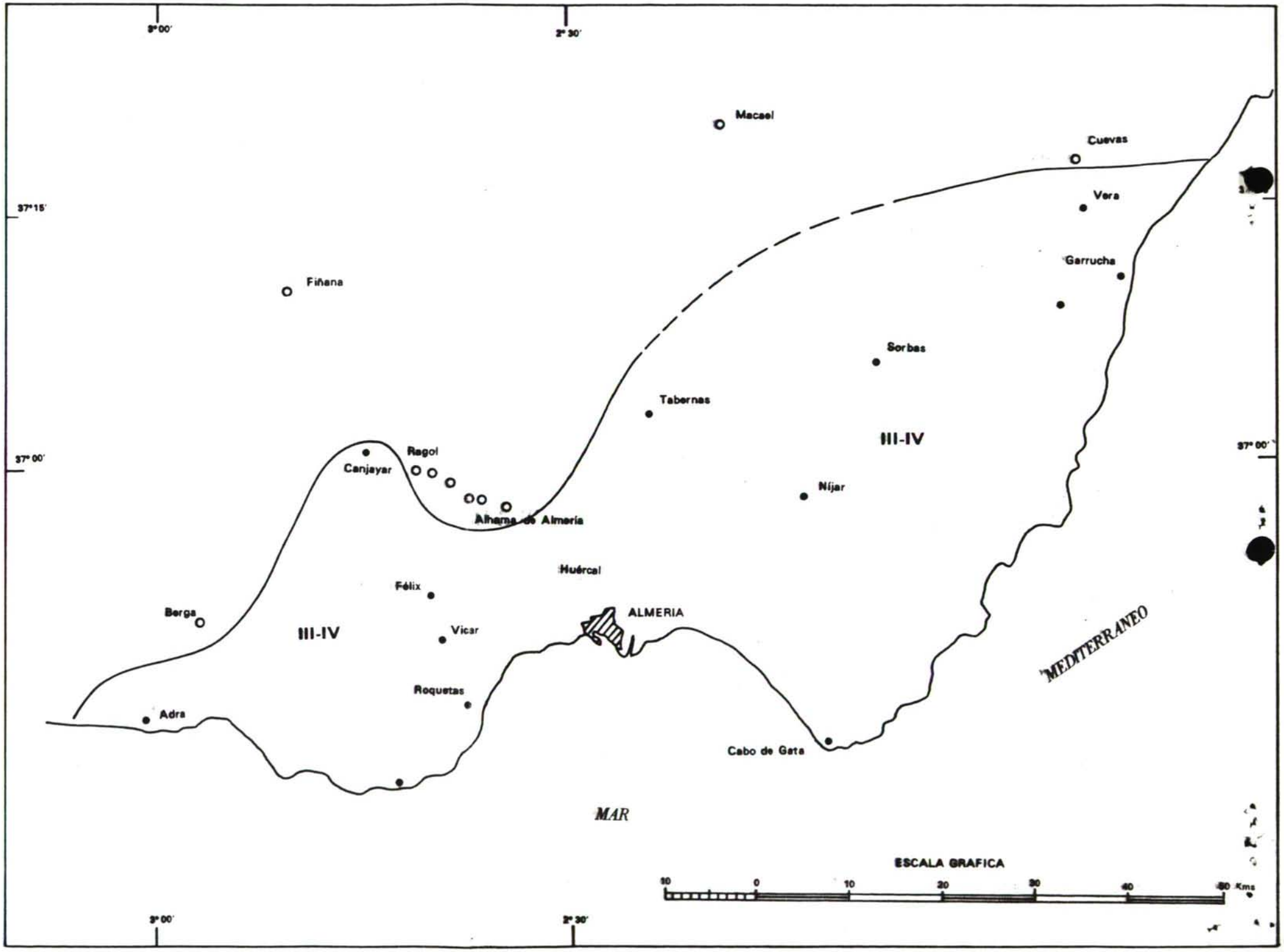


FECHA

8-FEBRERO-1983

FECHA

20-MARZO-1983



INSTITUTO GEOGRAFICO NACIONAL
SECCION DE SISMOLOGIA
S.S.I.S.
APDO 3007 MADRID
TELEX 23465 IGCE
ESPAÑA
* *

BOLETIN DE SISMOS PROXIMOS SEGUNDO TRIMESTRE 1.983

INFORMACION Y DATOS DEL BOLETIN

1.- DATOS DE ESTACIONES: EN LA DESCRIPCION FIGURAN LOS SIGUIENTES CARACTERES:

EST	CODIGO DE LA ESTACION
I/E	FASE IMPULSIVA (I) O EMERGENTE (E)
W	PESO DE LA ESTACION. '*'PESO NULO. '=' CALCULADO CON S-P
HORA P	HORA DE LLEGADA DE LA PRIMERA FASE
HORA S	HORA DE LLEGADA DE LA FASE 'S' CORRESPONDIENTE
AMP	AMPLITUD DEL MOVIMIENTO EN MICRONES
PER	PERIODO EN SEGUNDOS
DUR	DURACION EN SEGUNDOS

2.- DATOS DE CALCULO HIPOCENTRAL

FECHA	DIA Y MES
HO	HORA ORIGEN (GMT)
LAT	LATITUD EN GRADOS Y MINUTOS. SIEMPRE NORTE
LONG	LONGITUD EN GRADOS Y MINUTOS. SIGNO ('-') OESTE
PRO	PROFUNDIDAD EN KM
RMS	ERROR CUADRATICO MEDIO
MAG	MAGNITUD 'MB' A PARTIR DE LA FASE 'LG'
IO	INTENSIDAD MAXIMA EN EL EPICENTRO
NO	NUMERO DE ESTACIONES

3.- RESUMEN DE LA ACTIVIDAD SISMICA DEL AREA: SE INCLUYE UNA LISTA CRONOLOGICA CON TODA LA INFORMACION CALCULADA

EH	ERROR DEL EPICENTRO EN KM
EZ	ERROR EN PROFUNDIDAD EN KM
+	MAPA DE ISOSISTAS
P	PREMONITORIO
R	REPLICA
S	SUBMARINO. SENTIDO EN TIERRA
T	TSUNAMI

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
ALR	I		14 05 53.0	E	*	14 05 57.0			90
MAL	I		14 06 10.0	I		14 06 31.0	0.76	0.6	80
CRT	E		14 06 12.7	E	*	14 06 42.0			
ALC	E		14 06 13.6						121
ALM	I	*	14 06 16.7	I		14 06 24.3	0.39	0.4	100
MCV	E	*	14 07 04.5						
PRL	E	*	14 07 05.0						
TOL	E	=	14 07 17.0	E	=	14 08 07.0	0.03	0.8	75

06-ABR	HO	LAT	LONG	PRO	RMS	MAG	ID
SSIS	140543.8	35 28	-02 59	25	0.6	3.0	ALBORAN

ALR	I		16 41 38.5	E		16 41 42.0			90
MAL	I		16 41 55.8	I		16 42 16.0			140
ALM	I		16 41 57.9	I		16 42 14.7	0.83	0.4	96
ALC	I		16 41 59.0						
CRT	I		16 42 00.3	I	*	16 42 22.8			
TOL	E		16 42 38.0	E	*	16 43 35.0	0.05	0.9	130
GUD	E		16 42 48.0						
PRL	E	*	16 42 52.0						
MCV	E	*	16 42 53.0						

06-ABR	HO	LAT	LONG	PRO	RMS	MAG	ID
SSIS	164132.8	35 43	-03 18	5	0.9	3.2	ALBORAN

LGR	I		16 14 12.1	I		16 14 21.6			120
GUD	I		16 14 39.0						
EPF			16 14 46.6			16 15 16.7			80
EBR	E	*	16 14 48.0						
TOL	E		16 14 50.0	E	*	16 15 17.0			80
MCV	E	*	16 14 50.2			16 15 32.2			
LFF			16 15 01.0						
LPO			16 15 02.8						
RJF			16 15 08.8						
CAF			16 15 10.4						

08-ABR	HO	LAT	LONG	PRO	RMS	MAG	ID
SSIS	161404.0	42 40	-03 11	5	0.8		MIRANDA DE EBRO.BU

ALC	I		00 55 57.3						65
CRT	I		00 55 58.8						
TOL	E	*	00 56 00.0	E	*	00 57 33.0	0.01	0.8	
MAL	I		00 56 07.7	I		00 56 20.0	0.52	0.3	35
ALM	I	*	00 56 29.3	I		00 56 30.6	0.11	0.6	17

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
10-ABR	HO		LAT ONG	PRO	RMS	MAG	ID		
SSIS	005551.2		37 31 -03 50	10	0.3	3.4	VALDEPEÑAS.J		
LGR	I	*	17 12 13.9	I		17 12 22.4			60
GUD		*	17 12 40.0						
EPF			17 12 48.1		*	17 13 18.8			
TOL	E		17 12 58.0	I		17 13 35.0			100
LFF			17 13 01.1						
RJF			17 13 10.6						
CAF			17 13 12.0						
EBR	E	*	17 13 47.0						
15-ABR	HO		LAT ONG	PRO	RMS	MAG	ID		
SSIS	171209.6		42 49 -02 47	5	0.4		VITORIA		
EPF			11 39 06.1			11 39 16.4			
LFF			11 39 20.6						
LGR	E		11 39 22.0	I		11 39 44.0			85
LPO		*	11 39 24.5		*	11 39 49.9			
RJF			11 39 28.4		*	11 39 58.4			
CAF			11 39 28.9		*	11 39 59.1			
EBR	E	*	11 39 38.0						
MZF		*	11 39 42.8						
MFF		*	11 39 49.8		*	11 40 31.4			
17-ABR	HO		LAT ONG	PRO	RMS	MAG	ID		
SSIS	113853.0		43 22 -00 19	69	0.3	3.3	PAU.FR		
ACU	I		00 23 12.4						25
EBR		*	00 23 44.0	E		00 24 25.0			
TOL	E		00 23 58.0	E	*	00 24 52.0			111
EPF			00 24 10.0			00 25 19.6			
LMR			00 24 24.1			00 25 46.8			
LRG			00 24 25.2			00 25 48.4			
FRF			00 24 28.2			00 25 54.2			
CVF			00 24 29.8						
CAF			00 24 34.6						
LSF			00 24 51.4						
MZF			00 24 51.8						
20-ABR	HO		LAT ONG	PRO	RMS	MAG	ID		
SSIS	002234.1		36 43 01 43	5	1.0		MEDITERRANEO		
LGR	I	*	19 14 24.5	I	*	19 14 46.5	1.08	0.8	230

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
STS	I		19 14 28.0	E		19 14 58.0			163
MCV	E		19 14 32.0	I	*	19 15 08.2			
GUD	I		19 14 37.3						
MTE	E	*	19 14 38.0	I	*	19 15 30.6			
COI	E	*	19 14 46.0	I	*	19 15 17.8			
PTO	E	*	19 14 46.7	I	*	19 15 11.7			
TOL	I	=	19 14 51.2	I	=	19 15 33.5	0.36	1.2	300
EPF			19 14 53.0			19 15 38.5			
LFF			19 14 57.9			19 15 48.6			
EBR	E	*	19 15 01.0	E	*	19 15 55.0			
LPO			19 15 01.1			19 15 55.6			
MFF			19 15 02.2		*	19 15 56.1			
PRL	E	*	19 15 04.0		*	19 15 57.1			
CAF			19 15 09.7			19 16 09.2			
LPF			19 15 10.8			19 16 10.5			
LSF			19 15 11.8			19 16 12.3			
GRR		*	19 15 15.9		*	19 16 19.8			
LDF			19 15 22.1			19 16 30.3			
FLN		*	19 15 22.2		*	19 16 30.8			
MAL	E	*	19 16 41.3	I	*	19 17 10.0			

20-ABR	HO	LAT	LONG	PRO	RMS	MAG	ID
SSIS	191350.7	43 30	-05 17	16	0.8	3.9	COLUNGA.O

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
LIS	I		13 25 11.1	I	*	13 25 56.8			
MTH	I		13 25 12.0			13 25 58.2			
FUL	E		13 25 18.0			13 26 09.0			
FAR	E		13 25 21.2						
COI	I		13 25 27.6	I		13 26 26.3			
PTO	I		13 25 33.0						
MTE	E		13 25 35.8		*	13 26 41.1			
STS	E		13 25 51.0	E		13 27 10.0			234
MCV	I	*	13 25 51.7	I	*	13 27 04.0			
SFS	E	*	13 25 53.5	E	*	13 26 54.5			
MAL	I		13 26 01.5	I		13 27 23.7	0.62	0.4	210
ALC	I		13 26 09.9						310
GUD	I		13 26 10.0						
ALM	I		13 26 20.6						
LGR			13 26 37.0		*	13 28 25.0			
EBR	E		13 26 57.0		*	13 29 01.5			
EPF			13 27 06.3		*	13 29 16.8			
LFF			13 27 20.2		*	13 29 41.2			
LPO			13 27 21.8		*	13 29 44.4			
LPF		*	13 27 30.2		*	13 29 57.0			
CAF			13 27 31.5		*	13 30 01.4			

26-ABR	HO	LAT	LONG	PRO	RMS	MAG	ID
SSIS	132406.2	37 03	-14 20	33	1.0	4.8	ATLANTICO

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
STS	E	=	18 08 28.0		=	18 08 54.6			
LGR	E	*	18 08 37.0		*	18 09 18.0			125
GUD	E	*	18 08 45.3						
MCV	I	*	18 08 45.7	I		18 09 20.7			
MTE	E	=	18 08 57.6		=	18 09 42.0			
EPF			18 09 06.0		*	18 09 58.3			
MFF			18 09 06.3		*	18 10 01.7			
LFF			18 09 08.4			18 10 03.1			
LPO			18 09 11.2			18 10 11.0			
LSF			18 09 18.4			18 10 22.1			
CAF			18 09 19.6			18 10 24.3			

28-ABR	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	180754.5	44 17	-06 07	12	0.7	3.7		CANTABRICO

LGR	I	=	09 41 53.3	I	=	09 42 02.3	0.53	1.0	115
EPF			09 42 07.5						
LFF			09 42 25.0			09 42 59.1			
LPO			09 42 25.9			09 43 00.2			
EBR	E	*	09 42 29.0	E		09 42 58.0			
RJF			09 42 33.5			09 43 14.3			
CAF			09 42 34.7			09 43 16.0			
LSF			09 42 43.3			09 43 30.8			
TCF			09 42 48.4			09 43 39.0			
MZF	E		09 42 48.7			09 43 42.6			
BGF			09 42 54.2		*	09 43 48.5			
SSF			09 43 03.0						

01-MAY	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	094139.8	42 55	-01 57	5	0.6	3.2		IRURZUN.NA

LGR	E		14 23 41.6	E		14 23 49.9	0.24	0.9	80
EPF			14 23 56.5			14 24 20.5			
LFF			14 24 13.8						
LPO			14 24 16.1						
RJF			14 24 22.9						
CAF			14 24 23.3			14 25 04.5			
MZF			14 24 38.3						
GUD	E	*	14 24 45.0						

06-MAY	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	142330.0	42 57	-01 59	10	0.8			IRURZUN.NA

LGR	E	=	17 48 29.3	E	=	17 48 55.8			115
MFF			17 48 32.4						
LFF			17 48 34.5			17 49 07.8			

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
LPO			17 48 39.0			17 49 15.8			
EPF			17 48 39.6			17 49 15.4			
RJF			17 48 41.5			17 49 19.5			
CAF			17 48 46.9			17 49 28.3			
STS		*	17 48 51.0	E		17 49 41.0			80
TOL	E	*	17 49 48.5	E	*	17 50 19.0			70

08-MAY	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	174751.2	44 54	-03 20	30	0.9	4.0		GOLFO DE VIZCAYA

ALI	E		16 07 26.5	E	*	16 07 34.3			150
ACU	I		16 07 28.6						
ALM	I		16 07 46.0	6		16 08 11.0			70
ALC	I	*	16 07 52.5						100
CRT	I		16 07 54.0						
TOL	E	*	16 08 13.0	I		16 08 52.0			150
GUD	E	*	16 08 23.1	E		16 09 08.7			
LGR	E	*	16 08 34.8	I	*	16 09 31.8			165

09-MAY	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	160713.1	37 40	-00 14	5	1.2	3.4	IV	MEDITERRANEO

LGR	E		14 09 32.4	I		14 09 40.9	0.71	1.0	95
EPF			14 09 47.0			14 10 07.7			
LFF			14 10 03.8			14 10 37.0			
GUD	E		14 10 04.2	E		14 10 40.0			
LPO			14 10 05.2			14 10 38.5			
EBR	E	*	14 10 07.0	E		14 10 36.0			
RJF			14 10 11.7			14 10 52.7			
CAF			14 10 11.8			14 10 53.6			
LSF			14 10 21.2			14 11 08.1			
TCF			14 10 27.2			14 11 16.9			
BGF		*	14 10 31.0			14 11 28.6			
TOL	E	*	14 10 52.0	E	*	14 11 07.5			45

11-MAY	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	140919.6	42 55	-01 49	5	0.7	3.3		IRURZUN.NA

LGR	I		16 39 11.4	I		16 39 19.9		160
TOL	E	*	16 39 26.5	E	*	16 40 11.0		130
GUD	I	=	16 39 38.5	E	=	16 40 07.0		
EPF			16 39 45.8			16 40 16.3		
LPO			16 40 01.9					
RJF			16 40 08.0					
CAF			16 40 09.4		*	16 41 02.3		
LSF			16 40 17.6					

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
TCF			16 40 21.4						
MZF			16 40 23.1						
SSF			16 40 36.5						

19-MAY	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	163903.6	42 43	-03 06	5	1.0	3.0		MIRANDA DE EBRO.BU

CRT	I		01 52 45.5								
ALC	I	*	01 52 45.9								97
MAL	I		01 52 52.4	I		01 53 01.3	3.05	0.4	80		
ALM	I		01 53 00.1	I		01 53 15.6	0.31	0.7	52		
TOL	E	=	01 53 35.5	I	=	01 54 11.5			115		
GUD	E		01 53 42.0	E	*	01 54 33.3					

23-MAY	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	015242.2	36 56	-03 44	5	1.2	3.2		PADUL.GR

LGR	I	*	05 36 42.0	I	*	05 36 53.0	0.65	1.2	160		
EPF			05 36 52.4			05 37 14.6					
LPO			05 37 09.5		*	05 37 41.9					
RJF			05 37 14.1			05 37 49.9					
CAF			05 37 17.4			05 37 53.0					
GUD	E		05 37 17.8	I	*	05 38 00.3					
EBR	E	=	05 37 21.0	E	=	05 37 54.0					
LSF			05 37 25.6			05 38 05.1					
TOL	E		05 37 27.0						110		
MZF			05 37 31.0		*	05 38 15.5					
TCF			05 37 31.1			05 38 12.4					
MFF		*	05 37 32.2		*	05 38 17.5					

30-MAY	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	053630.0	43 21	-01 46	30	1.2	3.1		IRUN.SS

CRT	E		15 25 09.0								
ALC	E		15 25 10.5								
ALM	I		15 25 16.5	I		15 25 25.4	0.18	0.6	115		
TOL	E		15 25 50.0	E	*	15 26 46.0			100		

31-MAY	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	152503.1	36 54	-03 20	10	0.4			ORJIVA.GR

ALI	E		00 24 28.2	I		00 24 39.7			80		
ALM	I		00 24 38.3	I	*	00 25 04.3	0.25	1.3	64		
ALC	E		00 24 49.0						75		
CRT	E		00 24 50.0								

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
MAL	E	*	00 25 06.0	I		00 25 38.0	0.07	0.8	65
TOL	I	*	00 25 17.0	I		00 25 49.5	0.05	0.8	130
GUD	I	*	00 25 19.7	E		00 26 04.4			
LGR	E	*	00 25 22.7						150

	HO	LAT	LONG	PRO	RMS	MAG	ID	
04-JUN								
SSIS	002410.5	37 25	-00 34	5	0.5	3.2		MEDITERRANEO

EPF			01 29 59.2			01 30 07.9			
LGR	E	=	01 30 21.4	I	=	01 30 43.8	0.42	0.8	165
LPO			01 30 21.8						
LFF			01 30 22.5						
CAF			01 30 28.6				0.13	0.2	
RJF			01 30 29.7				0.22	0.3	
EBR	E		01 30 31.5			01 31 02.0			
GUD	I	=	01 30 46.9	E	=	01 31 29.6			120
TOL	E	=	01 30 53.0	I	=	01 31 42.0	0.01	0.8	145
AVF			01 30 57.2						
LOR			01 31 04.8				0.03	0.3	
GRR			01 31 07.0			01 32 05.4			
FLN			01 31 11.9			01 32 14.6			
CVF			01 31 30.8						

	HO	LAT	LONG	PRO	RMS	MAG	ID	
06-JUN								
SSIS	012950.1	43 16	-00 22	5	0.8	3.7		PAU.FR

ALI	I		02 50 52.0						120
ALM	I		02 51 29.7	I	*	02 51 51.9	0.12	0.6	106
EBR	E		02 51 33.0		*	02 52 05.0			
ALC	E		02 51 35.8						96
TOL	E	=	02 51 39.0	E	=	02 52 16.5	0.08	1.0	150
GUD	I	*	02 51 44.3	E	*	02 52 44.3			120
CRT	E	*	02 51 44.3						
MAL	E		02 51 48.0	E	*	02 51 41.5	0.03	0.7	90
LGR	E		02 51 58.2	E		02 52 48.2	0.22	1.4	175
EPF			02 52 01.5			02 52 52.8	0.03	0.4	
LPO			02 52 24.7			02 53 33.8			
LFF			02 52 28.0						
CAF			02 52 29.4		*	02 53 41.2			
LRG			02 52 37.3						

	HO	LAT	LONG	PRO	RMS	MAG	ID	
06-JUN								
SSIS	025051.2	38 25	-00 22	5	1.0	3.3	III	ALICANTE

ALM	I		12 40 21.7	I		12 40 26.7	0.57	0.4	72
CRT	I		12 40 31.5	E		12 40 48.0			

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
MAL	I		12 40 36.0	I	*	12 40 48.2	0.26	0.3	38

13-JUN	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	124009.2	36 16	-02 27	14	1.0	3.7		ALBORAN

MAL	I		14 45 50.0	I		14 45 57.6	1.79	0.5	55
CRT	I		14 45 56.7						
ALC	I		14 45 57.0						
ALM	I		14 46 05.6	I		14 46 19.2	0.14	0.3	58
TOL	E		14 46 33.0						65

29-JUN	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	144542.9	36 32	-03 58	21	0.8	3.2		ALBORAN

P -4.7 36,42 2.51

-4.3 36.40 2.15 (2.1) 1.9 (1.8)

-4.6 36.43 2.15 1.74

-4.8 36.41 1.60

24.

1.83

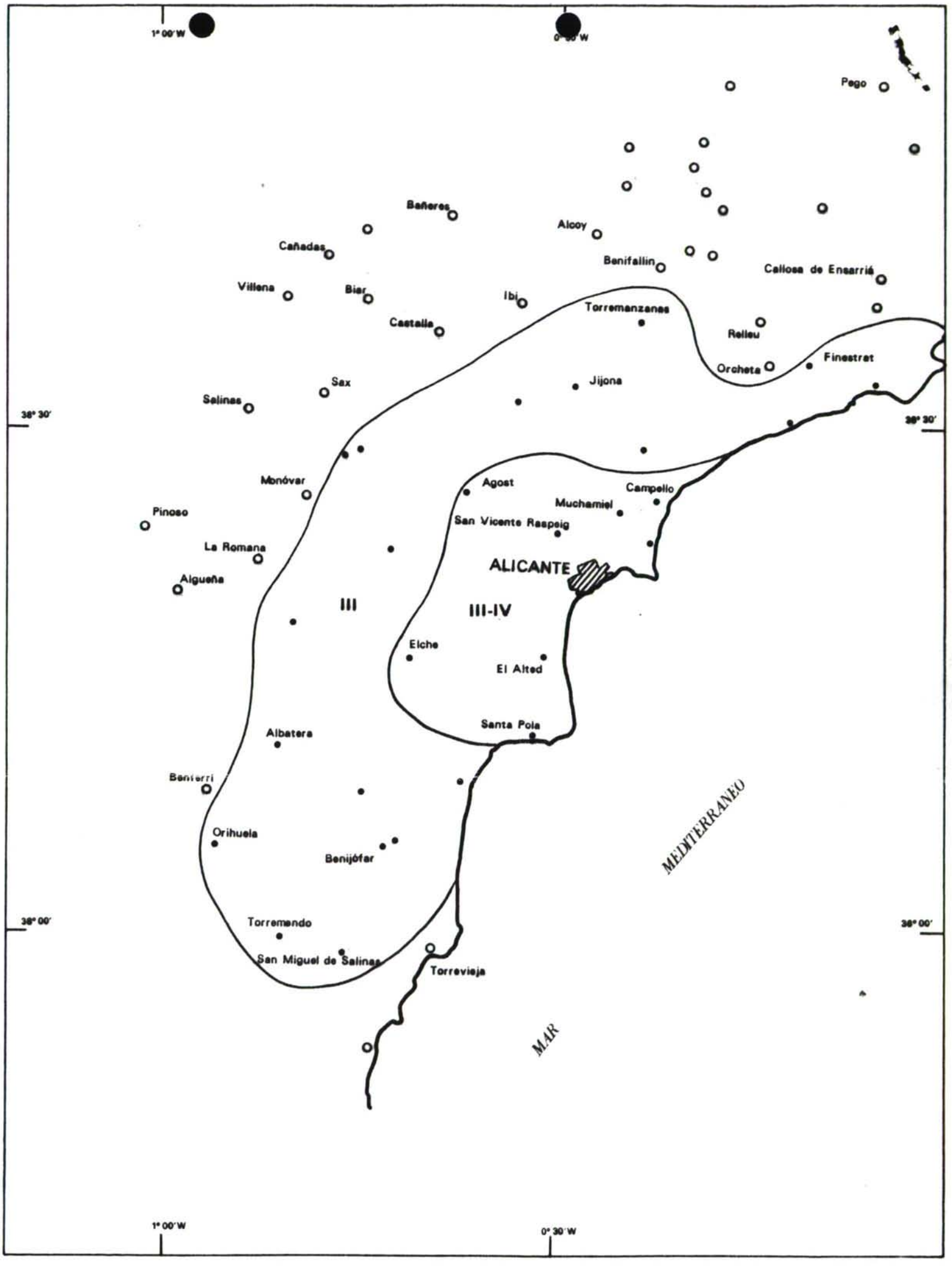
1.80 2.1

1.82 2,09 →

189

26

FECHA	HORA	LONGITUD	LATITUD	PRO	RMS	EH	EZ	ND	AGEN	MAG	INT		LOCALIZACION
1983-04-06	14-05-43.8	02-59.2 W	35-27.9 N	25	0.6	12	8	7	SSIS	3.0		R	ALBORAN
1983-04-06	16-41-32.8	03-18.4 W	35-42.9 N	5	0.9			10	SSIS	3.2		R	ALBORAN
1983-04-08	16-14-04.0	03-10.7 W	42-39.9 N	5	0.8	6	7	11	SSIS				MIRANDA DE EBRO.BU
1983-04-10	00-55-51.2	03-50.2 W	37-31.1 N	10	0.3	13	4	5	SSIS	3.4			VALDEPEÑAS.J
1983-04-15	17-12-09.6	02-47.0 W	42-48.9 N	5	0.4	4	5	7	SSIS				VITORIA
1983-04-17	11-38-53.0	00-18.8 W	43-22.0 N	69	0.3	6	10	7	SSIS	3.3		P	PAU.FR
1983-04-20	00-22-34.1	01-43.5 E	36-42.6 N	5	1.0			15	SSIS				MEDITERRANEO
1983-04-20	19-13-50.7	05-17.1 W	43-30.5 N	16	0.8	4	6	19	SSIS	3.9			COLUNGA.O
1983-04-26	13-24-06.2	14-20.2 W	37-03.2 N	33	1.0	7		18	SSIS	4.8		R	ATLANTICO
1983-04-28	18-07-54.5	06-07.4 W	44-17.1 N	12	0.7	10	7	13	SSIS	3.7			CANTABRICO
1983-05-01	09-41-39.8	01-56.7 W	42-54.7 N	5	0.6	6	6	19	SSIS	3.2		R	IRURZUN.NA
1983-05-06	14-23-30.0	01-59.4 W	42-56.9 N	10	0.8	10	14	10	SSIS			R	IRURZUN.NA
1983-05-08	17-47-51.2	03-19.8 W	44-54.3 N	30	0.9	7	12	13	SSIS	4.0			GOLFO DE VIZCAYA
1983-05-09	16-07-13.1	00-14.0 W	37-40.0 N	5	1.2			7	SSIS	3.4	IV	SR	+MEDITERRANEO
1983-05-11	14-09-19.6	01-49.4 W	42-55.2 N	5	0.7	4	4	20	SSIS	3.3		R	IRURZUN.NA
1983-05-19	16-39-03.6	03-06.4 W	42-43.0 N	5	1.0	8	5	12	SSIS	3.0			MIRANDA DE EBRO.BU
1983-05-23	01-52-42.2	03-43.7 W	36-56.2 N	5	1.2	5	9	7	SSIS	3.2			PADUL.GR
1983-05-30	05-36-30.0	01-46.2 W	43-21.2 N	30	1.2	9		15	SSIS	3.1		P	IRUN.SS
1983-05-31	15-25-03.1	03-20.4 W	36-54.3 N	10	0.4		9	5	SSIS				ORJIVA.GR
1983-06-04	00-24-10.5	00-34.3 W	37-25.5 N	5	0.5			8	SSIS	3.2		R	MEDITERRANEO
1983-06-06	01-29-50.1	00-21.6 W	43-16.2 N	5	0.8	6	6	18	SSIS	3.7			PAU.FR
1983-06-06	02-50-51.2	00-21.6 W	38-25.3 N	5	1.0	8	8	15	SSIS	3.3	III	R+	ALICANTE
1983-06-13	12-40-09.2	02-27.5 W	36-16.4 N	14	1.0			5	SSIS	3.7		R	ALBORAN
1983-06-29	14-45-42.9	03-58.1 W	36-31.6 N	21	0.8	15	10	7	SSIS	3.2		R	ALBORAN



FECHA	ESCALA
6-JUNIO-1983	1:500.000

FECHA	ESCALA
9-MAYO-1983	1:500.000

INSTITUTO GEOGRAFICO NACIONAL
SECCION DE SISMOLOGIA
S.S.I.S.
APDO 3007 MADRID
TELEX 23465 IGCE
ESPAÑA

* *

BOLETIN DE SISMOS PROXIMOS TERCER TRIMESTRE 1.983

INFORMACION Y DATOS DEL BOLETIN

1.- DATOS DE ESTACIONES: EN LA DESCRIPCION FIGURAN LOS SIGUIENTES CARACTERES:

EST	CODIGO DE LA ESTACION
I/E	FASE IMPULSIVA (I) O EMERGENTE (E)
W	PESO DE LA ESTACION. '*'PESO NULO. '=' CALCULADO CON S-P
HORA P	HORA DE LLEGADA DE LA PRIMERA FASE
HORA S	HORA DE LLEGADA DE LA FASE 'S' CORRESPONDIENTE
AMP	AMPLITUD DEL MOVIMIENTO EN MICRONES
PER	PERIODO EN SEGUNDOS
DUR	DURACION EN SEGUNDOS

2.- DATOS DE CALCULO HIPOCENTRAL

FECHA	DIA Y MES
HO	HORA ORIGEN (GMT)
LAT	LATITUD EN GRADOS Y MINUTOS. SIEMPRE NORTE
LONG	LONGITUD EN GRADOS Y MINUTOS. SIGNO ('-') OESTE
PRO	PROFUNDIDAD EN KM
RMS	ERROR CUADRATICO MEDIO
MAG	MAGNITUD 'MB' A PARTIR DE LA FASE 'LG'
IO	INTENSIDAD MAXIMA EN EL EPICENTRO
NO	NUMERO DE ESTACIONES

3.- RESUMEN DE LA ACTIVIDAD SISMICA DEL AREA: SE INCLUYE UNA LISTA CRONOLOGICA CON TODA LA INFORMACION CALCULADA

EH	ERROR DEL EPICENTRO EN KM
EZ	ERROR EN PROFUNDIDAD EN KM
+	MAPA DE ISOSISTAS
P	PREMONITORIO
R	REPLICA
S	SUBMARINO. SENTIDO EN TIERRA
T	TSUNAMI

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
ALR	I		23 56 04.0	I		23 56 9.5			70
ALM	I		23 56 18.3	I		23 56 30.5	0.62	0.7	91
MAL	I		23 56 20.5	I		23 56 38.3	3.07	0.3	75
ALC	I		23 56 22.6						85
CRT	E	*	23 56 23.9						
TOL	E	*	23 57 07.0	E		23 57 45.0			120

09-JUL	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	235557.8	35 47	-03 02	41	0.7			ALBORAN

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
ALR	I		06 42 01.0						75
ALM	I		06 42 06.8	I		06 42 17.7	0.34	0.7	125
MAL	E	=	06 42 17.0	E	=	06 42 35.2	0.22	0.3	70
ALC	E		06 42 17.9						
CRT	E		06 42 18.0						

11-JUL	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	064154.1	36 07	-02 35	20	1.0	3.5		ALBORAN

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
MAL	E	*	21 52 13.2	E		21 52 28.5	0.59	0.3	70
ALC	I		21 52 16.9						95
TOL	E		21 52 44.0	E		21 53 11.5			80
GUD	E		21 52 54.0	E		21 53 30.0			80

11-JUL	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	215206.3	37 25	-04 12	30	0.2	3.3		PRIEGO.CO

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
EPF		*	23 44 15.4						
LGR	E	=	23 44 31.6	I	=	23 44 54.3			105
LFF			23 44 32.9		*	23 44 56.0			
CAF		*	23 44 38.9			23 45 07.1			
EBR	E		23 44 56.0	E		23 45 28.0			
GUD	E		23 45 12.3						
TOL	E	*	23 45 58.0	E	*	23 46 27.0			60

18-JUL	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	234410.5	43 46	-00 24	30	0.6	3.5		ST.SEVERT.FR

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
FBR	I		19 08 31.8	E		19 08 45.0			
EPF			19 08 40.6						
EBR	E	=	19 08 51.0	E	=	19 09 18.0			
LPO			19 08 53.9						
CAF			19 08 54.4						
LFF			19 08 57.6						
LRG			19 09 03.3			19 09 40.0			

(TERCER TRIMESTRE)

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
LMR			19 09 04.4			19 09 41.7			
FRF			19 09 06.7			19 09 45.6			
LGR	E		19 09 10.0	I	*	19 09 52.5	0.40	1.2	220
CVF		=	19 09 24.2		=	19 10 17.6			
GUD	I		19 09 31.0	E		19 10 27.8			
TOL	E		19 09 34.0	I	*	19 10 07.0			90

20-JUL	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	190814.6	42 23	02 18	10	0.6	3.9	CAMPODRON.GE	

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
FAR			17 14 27.1			17 14 38.5			
SFS	I		17 14 38.0	I		17 14 58.5			130
MOT	I		17 14 46.8	I		17 15 13.0			
LIS	I		17 14 50.8	I		17 15 20.3			
MTH	I		17 14 53.8	I		17 15 26.0			
PRL	I		17 14 58.4	I	*	17 15 34.6			
MAL	I		17 14 58.0	I		17 15 33.0	1.16	0.8	140
CRT	I		17 15 08.8						
ALC	I		17 15 09.4						
MTE	I		17 15 12.2						
ALM	I		17 15 20.4	I		17 16 08.4	0.27	0.8	198
TOL	I		17 15 22.5	I	*	17 16 16.5	0.21	0.8	385
MCV	I	*	17 15 27.0	I	*	17 16 21.2			
GUD	I		17 15 30.3	I		17 16 26.0			340
ALI			17 15 44.5			17 16 53.5	0.60	1.0	200
STS	E	=	17 15 45.5	I	=	17 16 54.7			
LGR	E		17 16 01.0	I		17 17 18.0	0.75	1.3	
EPF			17 16 24.8			17 18 04.6			
LFF		=	17 16 46.3		=	17 18 40.4			
LPO			17 16 47.3		*	17 18 40.6			
CAF		=	17 16 53.8		=	17 18 55.4			

24-JUL	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	171413.7	36 24	-08 05	80	0.8	4.5	GOLFO DE CADIZ	

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
ALM	I		12 41 56.6	I		12 42 02.7	1.79	0.2	74
ALC	I		12 42 07.0						
CRT	I		12 42 07.8	E		12 42 24.5			
ALI	E		12 42 19.0						11
MAL	I		12 42 20.5	I	*	12 42 51.8	0.44	0.3	75
TOL	I	*	12 42 43.0						100
GUD	I		12 42 46.3	E		12 43 29.0			170
EBR	E		12 42 54.0						
LGR	E		12 43 05.5	E		12 44 06.5			165

25-JUL	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	124148.9	37 15	-02 14	5	0.8	3.4	VELEFIQUE.AL	

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
EPF			20 07 53.5						
FBR	I		20 08 08.9	I		20 08 29.0			
LPO			20 08 14.5						
EBR	E		20 08 17.0	E		20 08 41.0			
CAF			20 08 19.3						
RJF			20 08 22.7			20 08 53.1			
LGR	E		20 08 24.0	I		20 08 56.5	0.15	0.8	140
LRG			20 08 41.8						
LMR			20 08 42.8						
FRF			20 08 44.6						
GUD	E		20 08 50.3						

26-JUL	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	200742.5	42 47	01 06	6	0.5	3.5		OUST.FR

ALC	I		23 54 25.7						32
SMO	I		23 54 27.4	E		23 54 33.1			
CRT			23 54 27.5	I		23 54 33.0			
PHE	I		23 54 31.1			23 54 41.0			

02-AGO	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	235419.2	37 28	-03 10	10	0.4			HUELAGO.GR

LIS	I		17 02 07.5			17 02 35.2			
MTH	I		17 02 09.0	I		17 02 40.5			
MOT	I		17 02 11.6	I		17 02 43.5			
PRL	I		17 02 25.8	I		17 03 10.0			
FAR	I	*	17 02 28.2			17 02 35.2			
MTE	I		17 02 35.5			17 03 26.7			
PTO	I		17 02 38.3		*	17 03 23.5			
MAL	I		17 02 46.0	I		17 03 45.0			
ALC	I		17 02 55.0	E		17 04 00.0			
GUD	E		17 03 04.0	E	*	17 04 14.0			

08-AGO	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	170127.5	36 42	-11 00	10	0.6			ATLANTICO

ACU	E		05 35 26.7	I		05 35 55.7			75
ALM	I		05 35 32.4	I		05 36 05.5	0.27	1.0	132
ALC	I		05 35 45.0						
LOJ	E		05 35 50.1	I	*	05 36 43.9			180
MAL	I		05 35 52.0	I		05 36 43.6	0.13	0.3	476
TOL	E	*	05 36 09.0	I	*	05 37 24.0	0.07	0.8	160
GUD	I		05 36 14.0	E		05 37 21.9			180
EPF			05 36 23.7			05 37 36.2			180
LMR			05 36 40.4			05 38 07.0			180

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
CAF			05 36 49.0						

12-AGO	HO	LAT	LONG	PRO	RMS	MAG	IO	
SSIS	053444.7	36 11	01 22	30	0.8	3.6		PONTEBA.ARG

MAL	I		09 08 47.5	I		09 08 52.8	3.20	0.5	65
LOJ	I		09 08 51.0						
PHE	I		09 08 53.0						
SMO	I	*	09 08 56.0						
CRT	I		09 08 57.0	I		09 09 08.6			
ALC	I		09 08 57.5						106
ALM	I	=	09 09 12.9	I	=	09 09 33.8	0.21	1.1	57
TOL	E	*	09 09 41.0	I		09 10 14.0			100
GUD	E	*	09 09 53.3	E		09 10 33.3			

15-AGO	HO	LAT	LONG	PRO	RMS	MAG	IO	
SSIS	090840.3	36 25	-04 09	5	0.9	3.5		ALBORAN

SFS	E	*	19 24 24.0	E		19 24 34.0				
FAR	I		19 24 24.2	I		19 24 40.0				
MAL	I		19 24 41.3	I		19 25 09.8	2.23	0.4	117	
LIS		*	19 24 42.9			19 25 27.3				
MOT			19 24 45.0			19 25 16.0				
LOJ	I		19 24 47.4							
PHE	I		19 24 49.3							
SMO	I		19 24 52.5							
MTH			19 24 53.1			19 25 31.5				
CRT	I		19 24 53.3							
ALC	I		19 24 53.9	E	*	19 25 28.0			130	
PRL			19 24 54.4		*	19 25 34.0				
COI			19 25 07.5	I		19 25 55.0				
MTE			19 25 09.4	I	*	19 26 01.0				
TOL	I		19 25 13.5	I		19 26 04.0	0.34	0.9	210	
MCV			19 25 20.9		*	19 26 19.5				
GUD	I		19 25 22.0	I		19 26 18.6			220	
LGR	E		19 25 50.4	I		19 27 12.9			220	
EPF			19 26 15.1			19 27 52.6	0.61	0.6		
LFF			19 26 37.6		*	19 28 28.2	0.08	0.3		
LPO			19 26 38.3		*	19 28 31.1	0.02	0.5		

19-AGO	HO	LAT	LONG	PRO	RMS	MAG	IO	
SSIS	192404.0	36 01	-07 16	14	0.6	4.0		GOLFO DE CADIZ

CRT	I		17 15 40.0	I		17 15 42.8				
SMO	I		17 15 40.0							
PHE	I		17 15 43.3							

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
LOJ	E		17 15 44.0	I		17 15 51.0			

24-AGO	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	171536.3	37 17	-03 38	21	0.3		PINOS.GR	

MAL	I		07 26 36.5	I		07 26 49.0	1.68	0.6	65
PHE	I		07 26 42.0						
LOJ	I		07 26 43.5						
SMO	I		07 26 49.2	E		07 27 10.0			

25-AGO	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	072619.0	35 48	-04 42	10	0.8		ALBORAN	

ALC	I		08 45 40.0						23
SMO	I		08 45 40.0						
CRT			08 45 41.5						
PHE	E		08 45 44.0						
LOJ	E		08 45 45.0						

26-AGO	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	084538.1	37 17	-03 41	9	0.5		PINOS.GR	

ALI	E		16 08 20.8	I		16 08 49.7	1.50	0.7	180
PHE	I	*	16 08 40.2						
CRT	I		16 08 42.0						
SMO	I		16 08 44.1						
MAL	E	*	16 08 46.0	I	*	16 09 38.3	0.08	1.7	170
LOJ	I		16 08 47.1						
TOL	E		16 09 03.0	I	*	16 10 06.5	0.18	1.2	220
GUD	I		16 09 10.5	E		16 10 17.3			180
EPF			16 09 20.8			16 10 31.8	0.01	0.3	
LGR	E	*	16 09 23.0	E	*	16 10 40.5			200
LMR			16 09 37.6			16 11 05.0	0.06	0.3	
LRG			16 09 38.6		*	16 11 08.6	0.07	0.3	
FRF			16 09 41.0			16 11 10.8	0.08	0.5	
CVF			16 09 43.1						
COI			16 09 44.7	I		16 11 18.0			

27-AGO	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	160741.9	36 18	01 21	21	0.5	3.8	PONTEBA.ARG	

ALM	I		07 42 14.8	I		07 42 27.0	0.36	0.4	87
CRT			07 42 28.0						
PHE	I		07 42 29.0						
SMO	I		07 42 29.4						

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
LOJ	I		07 42 35.8						
MAL	I		07 42 40.5	I	*	07 43 14.0	0.11	0.3	80
TOL	E	=	07 42 56.5	I	=	07 43 33.5	0.03	0.8	100
GUD	E	*	07 43 08.4	E		07 43 44.3			100

28-AGO	HO	LAT	LONG	PRO	RMS	MAG	ID
SSIS	074200.6	37 20	-01 36	5	0.9	3.0	MEDITERRANEO

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
FAR	I		10 12 23.0	I		10 12 30.4			
SFS	E		10 12 36.0	E	*	10 12 46.5			
MOT			10 12 43.7	I		10 13 07.2			
LIS	I		10 12 49.8	I		10 13 18.2			
MTH	I		10 12 52.3	I		10 13 22.3			
PRL	I		10 12 54.6	I		10 13 26.5			
MAL	I		10 12 55.5	I		10 13 26.2	1.70	0.3	95
CRT	E	*	10 13 02.0	E		10 13 43.0			
ALC	I		10 13 05.1						127
COI	I		10 13 07.1			10 13 47.7			
MTE			10 13 09.2			10 13 51.0			
TOL	I		10 13 18.0	E	*	10 14 14.1	0.08	1.0	160
PTO	I		10 13 19.6	I		10 14 08.7			
MCV	I		10 13 20.1	I		10 14 10.2			
GUD	I		10 13 25.4	I		10 14 18.7			220
ALM	I	*	10 13 49.0	I		10 14 04.8	0.13	0.3	59
LGR	E		10 13 56.0	E		10 15 13.0			210

13-SEP	HO	LAT	LONG	PRO	RMS	MAG	ID
SSIS	101214.5	36 38	-07 48	40	0.6	3.4	GOLFO DE CADIZ

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
SFS	E		08 39 43.0						
MAL	I		08 39 45.4	I		08 40 11.6	0.95	0.4	
ALR	I	*	08 39 45.5	E	*	08 40 18.0			
CRT	I	*	08 39 59.4						
ALM	I		08 40 00.1	I	*	08 40 32.2			
TOL	E		08 40 29.0	I		08 41 25.0	0.10	1.1	
GUD	I		08 40 40.0	I		08 41 44.2			
LGR	E	*	08 41 18.0	E	*	08 42 52.0			

20-SEP	HO	LAT	LONG	PRO	RMS	MAG	ID
SSIS	083912.9	34 53	-05 16	5	0.6	4.5	OUEZZANE.MAC

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
FAR	I		19 59 55.2			20 00 16.0			
LIS	E		20 00 06.7	I		20 00 37.3			
MOT			20 00 07.8			20 00 37.5			
MTH			20 00 09.8			20 00 41.3			
PRL			20 00 22.0			20 01 04.3			

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
MAL	I		20 00 31.0	I	*	20 01 09.4	0.74	0.3	90
MTE	I		20 00 34.5	I		20 01 26.5			
ALC	I		20 00 41.9						105
MCV			20 00 46.5	I	*	20 01 17.2			
TOL	I		20 00 52.0	E		20 01 56.0	0.05	0.4	165
GUD	I		20 00 58.0	E		20 02 07.0			160
LGR	E		20 01 28.5	E		20 03 00.5			220
EPF			20 01 54.7	E	*	20 03 36.8			
LFF		*	20 02 13.7						
RJF		*	20 02 21.3						

20-SEP	HO	LAT	LONG	PRO	RMS	MAG	IO	
SSIS	195926.3	36 05	-09 52	26	0.4	3.9		ATLANTICO

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
ALM	I		23 33 30.2	I		23 33 33.6	0.87	0.3	62
ALC	I	*	23 33 42.0						29
CRT	E		23 33 44.0	I		23 33 56.5			
MAL	E		23 33 55.3	I	*	23 34 17.0	0.13	0.3	40
TOL	E	*	23 34 23.0						70
GUD	E		23 34 31.0	E		23 35 19.2			70

20-SEP	HO	LAT	LONG	PRO	RMS	MAG	IO	
SSIS	233328.5	36 46	-02 38	5	0.9	3.0	III	GOLFO DE ALMERIA

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
STS	I	=	22 46 03.0	I	=	22 46 17.0			134
PTO			22 46 25.5	I		22 46 54.7			
MCV	I		22 46 31.8	I	*	22 47 22.1			
MTE	E		22 46 39.2	I	*	22 47 41.0			
COI		*	22 46 54.0	E	*	22 47 39.0			
PRL	E		22 46 55.0			22 47 43.4			
GUD	I		22 46 57.6	E		22 47 52.3			
LGR	E		22 46 59.0	E		22 47 57.5			210
LPF			22 47 25.6			22 48 45.0			
EPF			22 47 28.0		*	22 48 38.4			
LFF			22 47 29.5		*	22 48 45.6			
LPO			22 47 34.0		*	22 48 51.6			
LSF			22 47 39.6		*	22 49 00.8			
CAF			22 47 41.6		*	22 49 06.0			

25-SEP	HO	LAT	LONG	PRO	RMS	MAG	IO	
SSIS	224544.3	43 48	-09 25	32	0.9	3.7		ATLANTICO

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
ABA	I		09 07 59.2	I		09 08 12.7			
OFD	E		09 08 06.0						
SET			09 08 14.0						
ALM	I	*	09 08 59.8	I		09 09 43.1			

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
EBR	E	*	09 09 08.0						
TOL	E		09 09 25.5	E	*	09 11 09.0	0.01	0.6	
GUD	E		09 09 32.7						

28-SEP	HO	LAT	LONG	PRO	RMS	MAG	ID
SSIS	090744.5	35 56	03 09	20	0.7	3.1	AE.BOUCIF.ARG

INSTITUTO GEOGRAFICO NACIONAL
SECCION DE SISMOLOGIA
S.S.I.S.
APDO 3007 MADRID
TELEX 23465 IGCE
ESPAÑA

* *

BOLETIN DE SISMOS PROXIMOS CUARTO TRIMESTRE 1.983

INFORMACION Y DATOS DEL BOLETIN

1.- DATOS DE ESTACIONES: EN LA DESCRIPCION FIGURAN LOS SIGUIENTES CARACTERES:

EST	CODIGO DE LA ESTACION
I/E	FASE IMPULSIVA (I) O EMERGENTE (E)
W	PESO DE LA ESTACION. '*'PESO NULO. '=' CALCULADO CON S-P
HORA P	HORA DE LLEGADA DE LA PRIMERA FASE
HORA S	HORA DE LLEGADA DE LA FASE 'S' CORRESPONDIENTE
AMP	AMPLITUD DEL MOVIMIENTO EN MICRONES
PER	PERIODO EN SEGUNDOS
DUR	DURACION EN SEGUNDOS

2.- DATOS DE CALCULO HIPOCENTRAL

FECHA	DIA Y MES
HO	HORA ORIGEN (GMT)
LAT	LATITUD EN GRADOS Y MINUTOS. SIEMPRE NORTE
LONG	LONGITUD EN GRADOS Y MINUTOS. SIGNO ('-') OESTE
PRO	PROFUNDIDAD EN KM
RMS	ERROR CUADRATICO MEDIO
MAG	MAGNITUD 'MB' A PARTIR DE LA FASE 'LG'
IO	INTENSIDAD MAXIMA EN EL EPICENTRO
NO	NUMERO DE ESTACIONES

3.- RESUMEN DE LA ACTIVIDAD SISMICA DEL AREA: SE INCLUYE UNA LISTA CRONOLOGICA CON TODA LA INFORMACION CALCULADA

EH	ERROR DEL EPICENTRO EN KM
EZ	ERROR EN PROFUNDIDAD EN KM
+	MAPA DE ISOSISTAS
P	PREMONITORIO
R	REPLICA
S	SUBMARINO. SENTIDO EN TIERRA
T	TSUNAMI

(CUARTO TRIMESTRE)

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
ALM	I		13 31 00.0	I		13 31 7.6	0.30	0.4	77
PHE	I		13 31 03.1						
ALC	I		13 31 06.1						45
CRT	E	*	13 31 09.5						
LOJ	E		13 31 11.0						
SMO	E	*	13 31 11.5						

06-OCT	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	133050.4	36 31	-02 59	5	0.4			ALBORAN

FAR	E		03 06 47.2	I		03 06 53.7			
MOT	I	=	03 07 03.8	I	=	03 07 23.7			
SFS	I	=	03 07 05.3	E	=	03 07 18.5			
LIS	E		03 07 12.4	I		03 07 40.4			
PRL		=	03 07 12.7		=	03 07 41.0			
MTH		*	03 07 14.0		*	03 07 46.5			
MAL	I		03 07 18.0	I	*	03 07 48.5	0.19	0.5	110
ALC	I		03 07 26.1						
CRT	E		03 07 26.5						
COI	E		03 07 28.0	I	*	03 08 17.6			
MTE	E	*	03 07 34.4	I	*	03 08 33.0			
TOL	I		03 07 36.5	E	*	03 08 13.0			135
MCV		=	03 07 38.0		=	03 08 23.2			
PTO		*	03 07 38.2		*	03 08 22.0			
GUD	I		03 07 45.8	E		03 08 32.4			160
LGR	E	*	03 08 18.0	E		03 09 28.0	0.17	1.2	240
STS	E	*	03 09 01.0	E	*	03 09 38.0			68

07-OCT	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	030639.2	37 00	-07 25	20	1.0	3.7		GOLFO DE CADIZ

PHE	I		08 08 21.5						
CRT	I		08 08 24.0	E		08 08 27.5			
LOJ	I		08 08 24.3						
SMO	I		08 08 25.4						
MAL	I		08 08 28.5	I		08 08 35.5	3.62	0.5	90
ALM	I		08 08 39.4	I	*	08 08 44.0	0.33	0.8	64
TOL	E	=	08 09 14.0	I	=	08 09 50.0	0.03	0.8	110
LGR	E	*	08 09 54.0	E	*	08 10 52.5			170

09-OCT	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	080819.0	36 59	-03 50	5	0.5	3.0		ALHAMA DE GRANADA.GR

FAR	E		17 44 45.2	E		17 45 02.0			
LIS	I		17 44 51.0	I		17 45 14.5			
MOT	I		17 44 53.2	I	*	17 45 21.3			

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
MTH	I	=	17 44 55.5	I	=	17 45 21.2			
PRL	I		17 45 08.5	I	*	17 46 47.5			
COI	I		17 45 15.0		*	17 45 57.3			
MTE			17 45 20.5		*	17 46 08.0			
MAL	I		17 45 23.0	I		17 46 11.8	0.74	0.3	115
PTO	I		17 45 26.0	I	*	17 46 05.1			
MCV			17 45 31.5		*	17 46 28.5			
ALC	I		17 45 32.1						
CRT	E		17 45 33.0	I	*	17 46 29.5			
SFS	I	*	17 45 37.0	E	*	17 45 43.0			
TOL	I		17 45 39.7	I		17 46 40.0	0.16	1.0	275
GUD	I		17 45 45.3	I		17 46 49.8			195
STS	E		17 45 49.0	E	*	17 46 51.0			211
LGR	E	*	17 46 12.5	I		17 47 41.5	0.22	1.2	260
EBR	E		17 46 28.5	E		17 48 04.0			
EPF			17 46 41.8			17 48 28.0	0.03	0.4	
LFF		*	17 47 00.2						
LPO			17 47 01.9						
CAF		*	17 47 09.4		*	17 49 17.0	0.01	0.5	

12-OCT	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	174420.1	36 44	-09 50	30	0.6	3.8		SW CABO SAN VICENTE

ALC	I		11 40 59.8						
PHE	I		11 40 57.6						
CRT	I		11 41 00.0	I		11 41 2.2			
SMO	I		11 41 00.3	I		11 41 5.7			
LOJ	I		11 41 01.1	I		11 41 6.8			
MAL	I		11 41 06.5	I		11 41 15.8	1.04	0.3	35
TOL	E	*	11 42 03.0	E	*	11 42 24.0			40

-OCT	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	114054.3	37 01	-03 41	20	0.3	3.5		PADUL.GR

FUL	E		19 37 34.4			19 38 25.4			
LIS			19 37 55.6			19 39 03.5			
MTH			19 37 57.8			19 39 07.8			
MOT			19 38 05.0			19 39 22.5			
COI			19 38 09.3			19 39 27.0			
FAR			19 38 11.5			19 39 32.5			
PTO			19 38 11.6		*	19 39 02.5			
ADH	I		19 38 12.9						
PRL			19 38 17.0			19 39 41.0			
MTE			19 38 18.2			19 39 43.6			
STS	I		19 38 23.5			19 39 53.5			
MCV	I	*	19 38 24.0			19 39 54.0			
HOR	E		19 38 28.6						

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
TEN	I		19 38 32.0	I		19 40 04.0			
SFS	I	*	19 38 36.0			19 40 08.0			
MAL	I		19 38 51.0			19 40 40.3			
TOL	I		19 38 52.0			19 40 46.0			
GUD	I		19 38 53.7			19 40 45.7			780
CRT	I		19 38 59.3						
ALC			19 38 59.4		*	19 40 45.5			
ALR	E		19 39 08.0	E		19 41 15.0			
ALM	I		19 39 12.2	I		19 41 16.7	6.40	0.8	
LGR	I		19 39 18.6			19 41 31.6			
ACU	I		19 39 33.6		*	19 41 45.0			
ALI	E	*	19 39 34.8			19 41 49.5			
EBR	E	*	19 39 39.0		*	19 42 05.0			
EPF	E		19 39 46.4						
OFD	E		19 39 56.0						
LFF	E	*	19 39 57.1						
MFF	E	*	19 39 59.3						
LPF	E	*	19 40 02.4						

17-OCT	HO	LAT	LONG	PRO	RMS	MAG	IO	
SSIS	193619.6	37 39	-17 27	6	0.7	6.0		ATLANTICO

FUL	I		03 50 07.8	I		03 50 59.0			
LIS	E		03 50 32.0	E	*	03 51 40.0			
MTH			03 50 33.0			03 51 40.0			
MOT			03 50 40.5		*	03 51 53.0			
COI	E		03 50 45.3	I		03 52 04.0			
MTE	E		03 50 53.0	I	*	03 52 16.0			
PRL			03 50 53.0		*	03 52 15.0			
STS	I		03 50 55.5						
MCV			03 50 59.3		*	03 52 26.5			
GUD	E		03 51 28.0						
EPF	E		03 52 20.9						
LFF	E		03 52 32.0						
MFF	E		03 52 34.0						

18-OCT	HO	LAT	LONG	PRO	RMS	MAG	IO	
SSIS	034847.7	37 56	-18 12	5	0.8	4.9		ATLANTICO

LOJ	I		20 02 27.1						
PHE	I		20 02 33.0	E		20 02 39.0			
MAL	I		20 02 33.5	I		20 02 39.6	2.00	0.4	55
SMO	I		20 02 35.0	E		20 02 43.0			
ALC	I		20 02 37.0						35
CRT	E	*	20 02 37.5	I	*	20 02 49.0			
TOL	E	*	20 03 08.5	E		20 03 45.0	0.02	0.8	120

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
23-OCT	HO		LAT	LONG	PRO	RMS	MAG	ID	
SSIS	200226.7		37 03	-04 09	5	0.6	2.7	ALHAMA DE GRANADA.GR	
SMO	I		08 06 01.9	I	*	08 06 9.7			
ALC	I		08 06 02.0						93
CRT	I		08 06 02.2	I		08 06 3.5			
PHE	I		08 06 03.9						
LOJ	I		08 06 04.8						
MAL	I		08 06 12.5	I		08 06 21.8	1.48	0.3	45
ALM	I	*	08 06 24.8	I		08 06 32.0	0.18	1.2	
8-OCT	HO		LAT	LONG	PRO	RMS	MAG	ID	
SSIS	080558.7		37 13	-03 43	13	0.3		SANTAFE.GR	
STS	I		01 59 16.0	E	*	01 59 31.0			314
PTO	I		01 59 25.1			01 59 57.0			
MCV	I	=	01 59 33.5	I	=	02 00 13.5			
COI			01 59 35.6	I		02 00 15.6			
MTH		=	01 59 47.0		=	02 00 34.0			
LIS			01 59 49.9		*	02 00 37.7			
PRL			01 59 51.8			02 00 43.5			
MOT	I	=	01 59 55.0		=	02 00 47.5			
GUD	I		01 60 08.9	I		02 01 09.5			320
TOL	I		01 60 15.3	I	*	02 01 23.8	0.56	0.8	400
LGR	I	=	01 60 18.6	I	=	02 01 26.6	1.38	0.6	420
FAR	E	*	01 60 25.5	I	*	02 01 25.0			
MAL	I		01 60 41.2	I		02 02 06.8	0.45	0.5	200
ALC	I		01 60 42.0	E	*	02 02 06.0			147
CRT	I		01 60 42.5	I		02 02 09.7			
MFF			01 60 46.4		*	02 02 12.2	0.46	0.5	
EPF			01 60 46.7		*	02 02 11.2	0.32	0.5	
LPF		*	01 60 46.9		*	02 02 14.1	0.23	0.5	
LFF			01 60 49.5		*	02 02 16.8	0.34	0.5	
EBR	E		01 60 53.0	E		02 02 29.0			
LPO			01 60 53.1		*	02 02 25.8	0.23	0.4	
ALI			01 60 57.0	E		02 02 38.0			260
LMR			01 61 46.6						
SFS	I	*	01 61 56.5	E	*	02 02 18.0			
ALM	I	*	01 62 32.9	I	*	02 03 59.4	0.39	1.0	167
09-NOV	HO		LAT	LONG	PRO	RMS	MAG	ID	
SSIS	015845.0		43 00	-11 11	40	1.0	4.6	ATLANTICO	
ALM	I		19 37 07.4	I	*	19 37 14.3	0.39	0.6	55
ALC	I	*	19 37 16.1	E		19 37 38.1			67

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
CRT	I	*	19 37 16.6	I		19 37 37.6			
SMO	E		19 37 19.5	I		19 37 41.0			
PHE	I		19 37 19.7	I		19 37 44.0			
LOJ	E		19 37 24.8	I		19 37 50.4			
MAL	I	=	19 37 33.0	I	=	19 37 59.0	0.24	0.6	50
TOL	E		19 37 41.5	E		19 38 16.0	0.03	0.9	100
GUD	E		19 37 50.0						80

11-NOV	HO	LAT	LONG	PRO	RMS	MAG	IO	
SSIS	193652.3	37 24	-01 37	10	1.0	2.9		AGUILAS

LIS			05 39 26.4						
MTH	I		05 39 28.0	I		05 40 03.0			
MOT	I		05 39 32.7	I		05 40 13.7			
FAR	I		05 39 34.2						
COI	I		05 39 45.2	I		05 40 33.3			
PRL	I		05 39 47.5	I	*	05 40 40.5			
PTO	E		05 39 53.2	I		05 40 46.8			
MTE	I		05 39 54.0	I		05 40 49.0			
MCV	I	*	05 39 59.8	I	*	05 41 02.0			
MAL	I		05 40 13.0	I		05 41 25.0	0.19	0.4	105
STS	E		05 40 14.0	E	*	05 41 19.0			132
ALC	E		05 40 22.3	E		05 41 39.7			106
CRT	E		05 40 22.0						
TOL	I		05 40 22.5	E	*	05 41 46.0	0.02	0.8	150
GUD	I		05 40 25.6						150
LGR	E	*	05 40 51.3	E	*	05 42 31.0			200
EPF			05 41 22.2			05 43 25.2	0.01	0.6	
LFF		*	05 41 37.3						
LPO		*	05 41 39.2						
MFF			05 41 45.4						

14-NOV	HO	LAT	LONG	PRO	RMS	MAG	IO	
SSIS	053840.0	37 09	-12 34	40	0.5	3.1		ATLANTICO

PHE	I		07 19 55.4						57
SMO	I	*	07 19 56.0						57
ALC	I		07 19 57.0						57
CRT	I		07 19 57.0	I		07 20 02.2			
LOJ	I		07 19 58.0						57
MAL	I		07 20 00.8	I		07 20 8.2	1.59	0.4	45
TOL	E	*	07 20 57.0	E	*	07 21 19.0			

18-NOV	HO	LAT	LONG	PRO	RMS	MAG	IO	
SSIS	071949.4	36 57	-03 45	40	0.4			ALHAMA DE GRANADA.GR

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
ALI	E		11 11 56.5	I		11 12 11.6			42
ALC	E	*	11 12 06.1						107
PHE	I		11 12 13.4						107
TOL	E	=	11 12 13.5	I	=	11 12 41.0	0.09	0.8	70
GUD	I		11 12 24.1	I		11 12 58.3			75
MAL	I	*	11 13 01.8						

23-NOV	HO	LAT	LONG	PRO	RMS	MAG	ID
SSIS	111139.3	38 24	-01 46	10	0.5	3.2	AGRAMON.AB

ACU	E		13 14 57.7	E		13 15 12.2			37
ALC	E		13 15 08.5						95
CRT	I	*	13 15 12.9						95
TOL	I	*	13 15 13.5				0.07	0.8	70
GUD	I		13 15 24.1	I		13 15 58.3			85
LGR	E	*	13 15 48.0	E		13 16 27.0			110

23-NOV	HO	LAT	LONG	PRO	RMS	MAG	ID
SSIS	131438.5	38 23	-01 46	7	0.1	3.1	AGRAMON.AB

MAL	I		20 56 12.0	I		20 56 34.8	3.44	0.6	270
SFS	I		20 56 18.0	I	*	20 56 45.0			
CRT	I		20 56 21.0	I	*	20 56 51.3			
ALC	I		20 56 22.7	E	*	20 56 44.3			160
FAR			20 56 35.2			20 57 15.4			
MOT			20 56 52.5		*	20 57 44.5			
ALI	E		20 56 52.7	I		20 57 43.2			160
PRL	I		20 56 56.0		*	20 57 49.0			
OFD	I		20 56 56.0			20 57 51.0			
TOL	I		20 56 57.0	I		20 57 52.5	0.60	1.2	300
LIS	I		20 57 00.7	I		20 57 59.2			
GUD	I		20 57 07.4	I		20 58 10.0			250
COI	I		20 57 12.0	I		20 58 19.0			
ABA	I		20 57 15.3	I		20 58 22.3			
EBR	E	*	20 57 15.5	E	*	20 58 45.5			
LGR	I		20 57 34.5	I		20 58 59.0	0.50	1.5	350
EPF			20 57 51.2			20 59 28.4	0.02	0.4	
STS	E	*	20 57 52.0	E	*	20 59 15.0			205
CAF			20 58 21.4			21 00 21.6			
RLA	I	*	20 58 36.0	I	*	20 59 18.0			
CVF		*	20 58 49.2						

24-NOV	HO	LAT	LONG	PRO	RMS	MAG	ID
SSIS	205542.4	34 46	-04 28	40	0.8	4.2	TARQUIST.MAC

CRT	I		23 21 10.3	I		23 21 12.9			

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
ALC	I		23 21 10.5						52
PHE	I		23 21 11.0	I		23 21 12.7			
SMO	I		23 21 11.2	E		23 21 13.5			
MAL	E		23 21 20.0	I		23 21 29.8	0.67	0.3	30

03-DIC	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	232107.3	37 08	-03 44	9	0.6	3.3		ALHAMA DE GRANADA.GR

ABA	I		21 52 18.1	I		21 52 20.9		
OFD	I	=	21 52 34.5	I	=	21 52 53.0		
RLA	I		21 52 53.0	I		21 53 21.0		
SET	I	*	21 52 54.0	I	*	21 53 22.0		
EBR	E	*	21 53 30.0					
TOL	E		21 53 49.0	E	*	21 55 14.0		150
EPF			21 53 52.2			21 55 03.5		
GUD	E		21 53 54.5	E		21 55 10.6		
LMR			21 53 58.4			21 55 14.8		
CAF			21 54 14.0					

07-DIC	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	215215.8	36 47	03 07	15	0.4	3.8		N.ALGER.ARG

EPF			05 54 31.4			05 54 42.0		
FBR	I		05 54 39.0	I	*	05 55 55.0		
EBR	E	=	05 54 48.0	E	=	05 55 10.0		
LPO		=	05 54 57.6		=	05 55 25.8		
LFF			05 54 57.8		*	05 55 25.2		
CAF			05 54 58.4		*	05 55 27.5		

08-DIC	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	055416.2	42 25	01 05	5	0.4	2.9		SORT.LE

EPF			11 29 01.7					
ARY		*	11 29 10.0	I	*	11 29 28.6		
LPO			11 29 30.4					
CAF			11 29 35.2					
EBR	E		11 29 37.0	E		11 30 05.5		
LGR	I		11 29 39.0	E	*	11 30 03.0		85
RJF			11 29 39.4					
GUD	E		11 30 06.0	E		11 30 54.3		

10-DIC	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	112900.6	43 04	00 32	5	0.8	3.5		BARBAZAN.FR

MAL	I		04 37 49.0	I	*	04 38 08.5	1.51	0.4	

	EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
	PHE	I		04 37 51.8						
	ALC	E		04 37 58.9						
	ALM	I		04 38 05.7	I		04 38 22.5	0.19	0.5	70
	TOL	E		04 38 34.5	E	*	04 39 24.0	0.02	1.0	120
	GUD	E		04 38 44.6	E		04 39 32.0			

11-DIC	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	043742.0	36 29	-04 02	7	0.5	2.7		ALBORAN

	MAL	I		02 12 44.0	I		02 12 59.0	3.20	0.6	130
	PHE	I		02 12 47.2						
	ALM	I		02 12 53.4	I		02 13 15.8	0.47	0.7	174
	CRT	E	*	02 12 54.0	I	*	02 13 19.0			
	ALC	E		02 12 54.0						
	TOL	I		02 13 29.5	E	*	02 14 19.0	0.12	1.2	165
	GUD	I		02 13 40.0	E		02 14 33.0			
	COI	E		02 13 49.0	E		02 14 53.6			
	LGR	E	=	02 14 04.0	E	=	02 15 20.0			200

12-DIC	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	021225.7	35 45	-03 58	5	0.8	3.4		ALBORAN

	LOJ	I		11 33 08.4	I		11 33 15.8			
	PHE	I		11 33 13.2	E		11 33 24.0			
	SMO	I		11 33 13.7	I		11 33 25.2			
	MAL	I		11 33 13.8						
	ALC	E		11 33 15.5						

13-DIC	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	113302.1	37 13	-04 29	40	1.2			IZNAJAR.CO

	MTH	I		22 49 36.4			22 49 43.4			
	LIS	I		22 49 40.0	I		22 49 49.3			
	MOT	I		22 49 46.3	I		22 50 01.5			
	PRL			22 49 50.3			22 50 10.0			
	MCV	I	*	22 49 55.5	I		22 50 33.5			
	PTO			22 49 58.0			22 50 22.0			
	STS	E		22 50 22.0						134
	GUD	I		22 50 28.6	E		22 51 13.3			175
	TOL	E	*	22 50 33.0	I		22 51 12.5	0.05	0.8	125
	SMO	I		22 50 38.7						
	PHE	E		22 50 41.7						
	FAR	E	*	22 50 48.2						

15-DIC	HO	LAT	LONG	PRO	RMS	MAG	ID	
SSIS	224917.5	39 24	-09 04	5	0.7	3.2		OBIDOS.PORT

EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
MOT	I		20 38 05.2	I		20 38 36.0			
MTH	I		20 38 07.4	I		20 38 39.2			
FAR	E	*	20 38 10.7						
MAL	E		20 38 29.2	I		20 39 16.8	0.07	0.7	63
MTE	I		20 38 31.5	I		20 39 22.5			
PHE	I		20 38 37.0						
SMO	I		20 38 37.4						
GUD	E		20 38 54.9						
TOL	E	*	20 39 07.5						110

17-DIC	HO	LAT	LONG	PRO	RMS	MAG	IO	
SSIS	203724.3	36 11	-09 46	120	0.2	3.3		SW.CABO SAN VICENTE

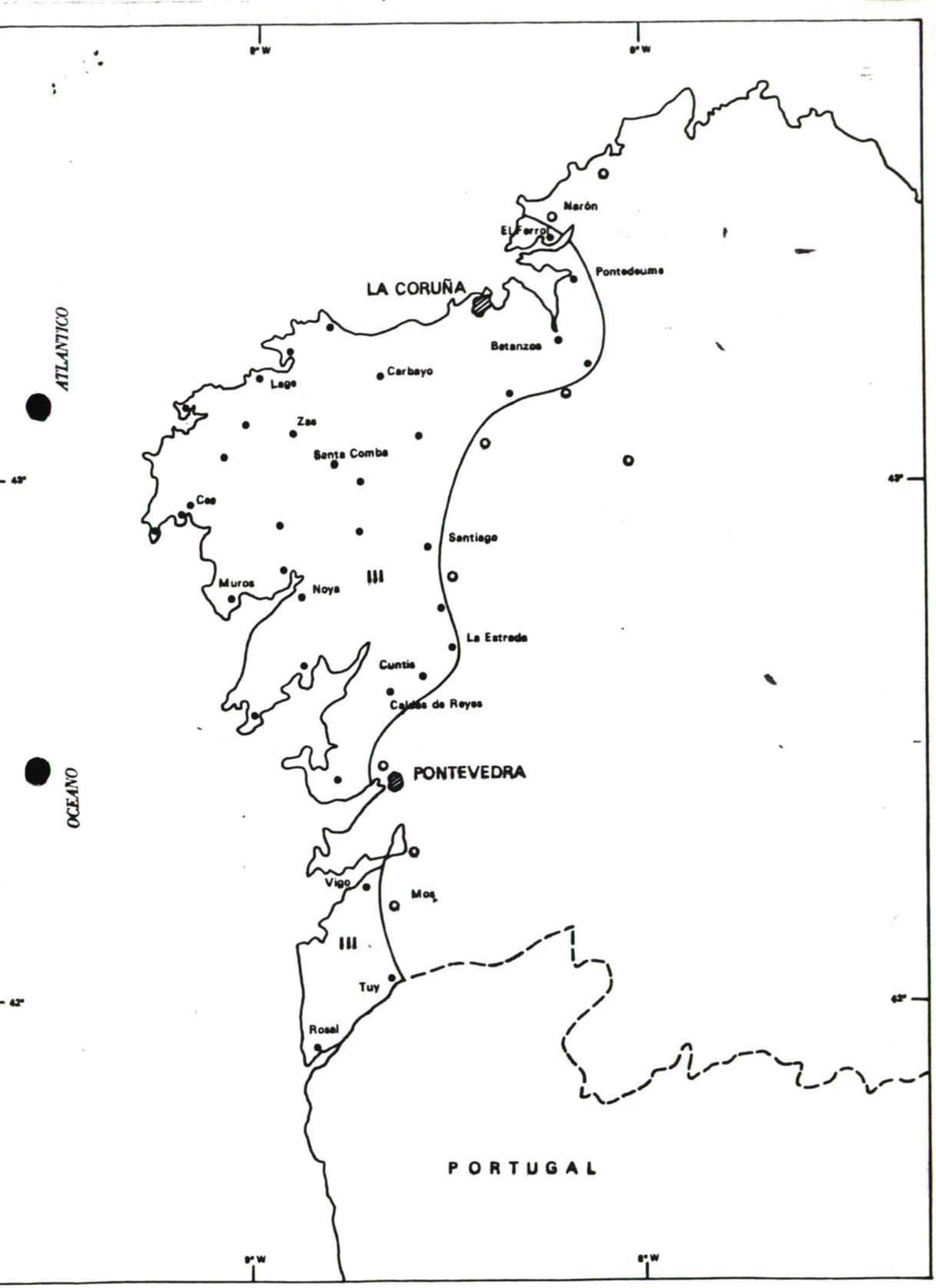
EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
PHE	I		22 30 37.4						
CRT	I		22 30 38.0	I		22 30 42.1			
LOJ	I		22 30 38.5	I		22 30 41.5			
SMO	I		22 30 38.5						
MAL	I		22 30 44.5	I		22 30 52.0			40

26-DIC	HO	LAT	LONG	PRO	RMS	MAG	IO	
SSIS	223033.3	37 05	-03 50	17	0.3			ALHAMA DE GRANADA.GR

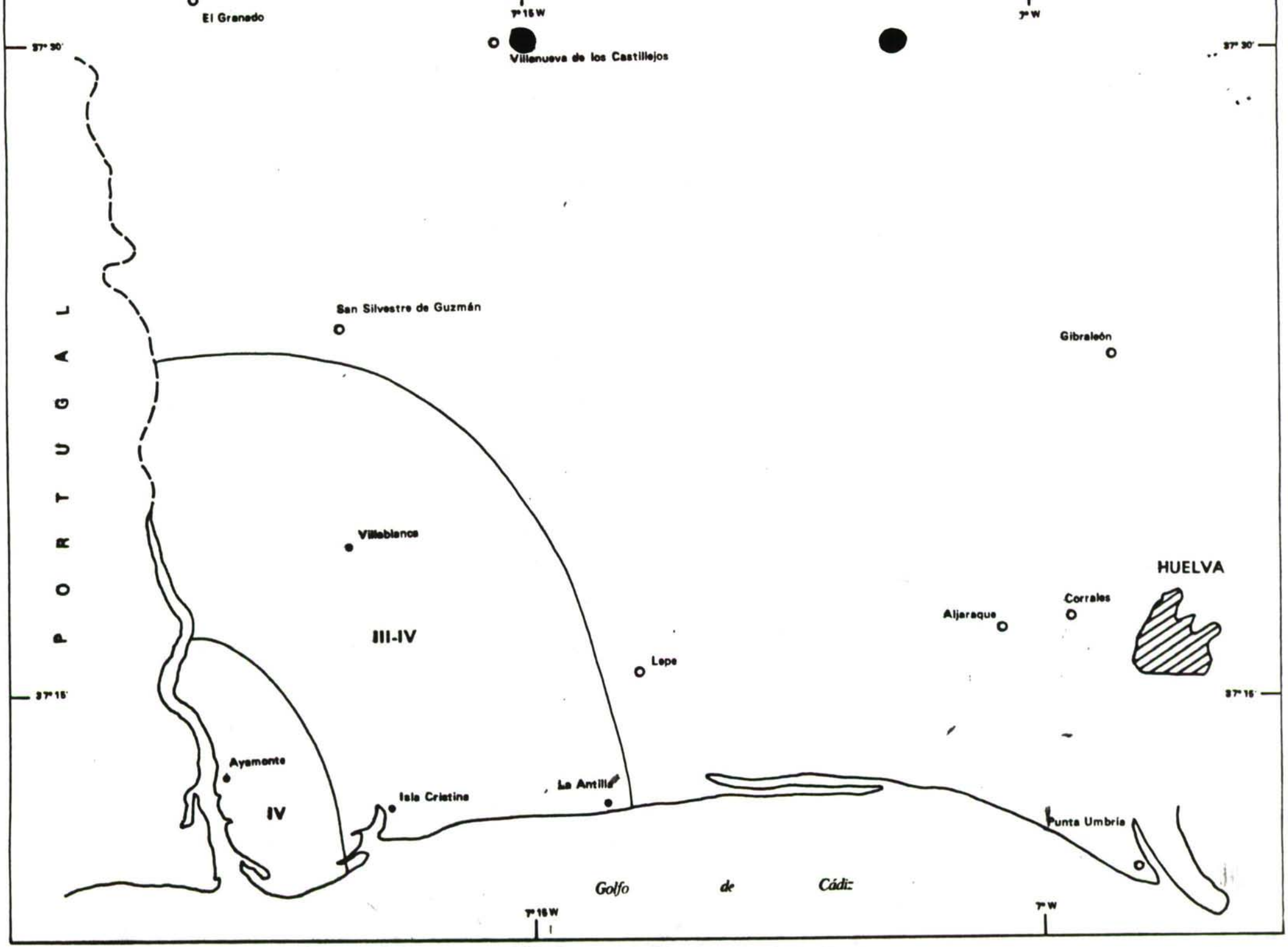
EST	I/E	W	HORA P	I/E	W	HORA S	AMP	PER	DUR
PHE	I		20 05 23.6						
CRT	I		20 05 26.2						
SMO			20 05 29.5						
LOJ			20 05 29.7						
MAL			20 05 32.5			20 05 41.3			

27-DIC	HO	LAT	LONG	PRO	RMS	MAG	IO	
SSIS	200520.0	36 50	-03 35	10	0.3			ALHAMA DE GRANADA.GR

FECHA	HORA	LONGITUD	LATITUD	PRO	RMS	EH	EZ	NO	AGEN	MAG	INT	LOCALIZACION
1983-10-06	13-30-50.4	02-58.6 W	36-31.1 N	5	0.4	22		5	SSIS			ALBORAN
1983-10-07	03-06-39.2	07-25.5 W	37-00.5 N	20	1.0	8	8	16	SSIS	3.7	S+	GOLFO DE CADIZ
1983-10-09	08-08-19.0	03-49.8 W	36-58.6 N	5	0.5	2	9	9	SSIS	3.0		ALHAMA DE GRANADA.GR
1983-10-12	17-44-20.1	09-50.0 W	36-43.6 N	30	0.6	10	16	25	SSIS	3.8		SW CABO SAN VICENTE
1983-10-17	11-40-54.3	03-40.7 W	37-01.4 N	20	0.3	2	4	10	SSIS	3.5		PADUL.GR
1983-10-17	19-36-19.6	17-27.0 W	37-38.8 N	6	0.7	5		15	SSIS	6.0	S	ATLANTICO
1983-10-18	03-48-47.7	18-12.1 W	37-56.1 N	5	0.8	30		9	SSIS	4.9	R	ATLANTICO
1983-10-23	20-02-26.7	04-09.4 W	37-03.4 N	5	0.6	4	6	9	SSIS	2.7		ALHAMA DE GRANADA.GR
1983-10-28	08-05-58.7	03-43.4 W	37-12.9 N	13	0.3	2	3	9	SSIS			SANTAFE.GR
1983-11-09	01-58-45.0	11-11.5 W	42-59.7 N	40	1.0	5	67	29	SSIS	4.6	S+	ATLANTICO
1983-11-11	19-36-52.3	01-37.3 W	37-24.1 N	10	1.0	40	38	13	SSIS	2.9		AGUILAS
1983-11-14	05-38-40.0	12-34.1 W	37-08.6 N	40	0.5	3	52	21	SSIS	3.1	R	ATLANTICO
1983-11-18	07-19-49.4	03-44.8 W	36-57.5 N	40	0.4	9	9	7	SSIS			ALHAMA DE GRANADA.GR
1983-11-23	11-11-39.3	01-45.8 W	38-24.0 N	10	0.5	5	9	6	SSIS	3.2		AGRAMON.AB
1983-11-23	13-14-38.5	01-45.6 W	38-23.0 N	7	0.1	1	2	6	SSIS	3.1		AGRAMON.AB
1983-11-24	20-55-42.4	04-27.6 W	34-46.4 N	40	0.8	4	54	27	SSIS	4.2		TARQUIST.MAC
1983-12-03	23-21-07.3	03-43.7 W	37-08.4 N	9	0.6	7	10	9	SSIS	3.3		ALHAMA DE GRANADA.GR
1983-12-07	21-52-15.8	03-07.0 E	36-46.9 N	15	0.4	3	1	13	SSIS	3.8		N.ALGER.ARG
1983-12-08	05-54-16.2	01-05.3 E	42-24.9 N	5	0.4	3	3	7	SSIS	2.9		SORT.LE
1983-12-10	11-29-00.6	00-31.9 E	43-03.7 N	5	0.8	5	6	9	SSIS	3.5		BARBAZAN.FR
1983-12-11	04-37-42.0	04-01.6 W	36-28.7 N	7	0.5	6	4	8	SSIS	2.7		ALBORAN
1983-12-12	02-12-25.7	03-57.9 W	35-45.5 N	5	0.8	7	4	12	SSIS	3.4		ALBORAN
1983-12-13	11-33-02.1	04-28.6 W	37-12.8 N	40	1.2	19	18	8	SSIS			IZNAJAR.CO
1983-12-15	22-49-17.5	09-03.8 W	39-24.3 N	5	0.7	3	6	17	SSIS	3.2		OBIDOS.PORT
1983-12-17	20-37-24.3	09-45.6 W	36-10.8 N	120	0.2	4	8	11	SSIS	3.3		SW.CABO SAN VICENTE
1983-12-26	22-30-33.3	03-50.5 W	37-05.5 N	17	0.3	3	5	8	SSIS			ALHAMA DE GRANADA.GR
1983-12-27	20-05-20.0	03-34.6 W	36-50.0 N	10	0.3	10	5	6	SSIS			ALHAMA DE GRANADA.GR



	FECHA	ESCALA
	9 NOVIEMBRE-1983	1:1.000.000



FECHA 7-OCTUBRE-1983

ESCALA 1:200.000