

INSTITUTO GEOGRÁFICO Y CATASTRAL

BOLETÍN DEL SERVICIO METEOROLÓGICO

AÑO XXXIX
Núm. 332

OBSERVACIONES DEL EXTRANJERO

28 de 1931

| ESTACIONES | PRESIÓN MILIBARES | | VIENTO | TEMPERATURA | TIEMPO | PRESIÓN MILIBARES | | VIENTO | ESTACIONES | PRESIÓN MILIBARES | | VIENTO | TEMPERATURA | TIEMPO | PRESIÓN MILIBARES | | VIENTO | |
|------------------|-------------------|-----------|--------|-------------|--------|-------------------|-----------|--------|-------------|-------------------|-----------|--------|-------------|--------|-------------------|-----------|--------|-------|
| | á O. N. M. G. N. | VARIACIÓN | | | | á O. N. M. G. N. | VARIACIÓN | | | á O. N. M. G. N. | VARIACIÓN | | | | á O. N. M. G. N. | VARIACIÓN | | |
| ISLANDIA | Seydisfjord | 94.7 | +0.5 | S-3 | 9 | N | N | | De Bild | 99.9 | 1.0 | 3 | ESE-3 | 6 | N | N | 10.4 | ? |
| | Reykjavik | 88.3 | 0.0 | E-2 | 4 | N | N | | Le Helder | 10.7 | 3.4 | 3 | ESE-3 | 6 | N | N | 29.5 | S-4 |
| | Vestmannö | 89.4 | -1.5 | S-4 | 6 | 11 | LL | | Fiesinga | 07.7 | 1.2 | 4 | SE-4 | 8 | N | N | 08.3 | SSW-4 |
| | Thorshavn | ? | 0.6 | SE-4 | ? | N | N | | Bruselas | 08.4 | 0.2 | 3 | SE-2 | 6 | N | N | 19.9 | S-4 |
| | Stensele | 28.6 | 1.0 | S-2 | -1 | N | N | 26.7 | Zurich | 11.0 | ? | | E-1 | 3 | N | N | 19.0 | SSW-4 |
| | Ostersund | 30.1 | 1.0 | SE-3 | -2 | N | N | 25.3 | Berna | 12.2 | -1.6 | 5 | W-0 | 1 | NB | N | 18.6 | NW-0 |
| | Hernosánd | 32.7 | 1.4 | S-3 | 2 | N | N | | Ginebra | 11.6 | -1.4 | 7 | SE-1 | 2 | N | N | 18.7 | SW-1 |
| | Särna | 28.6 | 0.8 | SE-1 | -3 | N | N | 24.4 | Lugano | 08.4 | ? | | NE-0 | 5 | LL | LL | 19.8 | S-0 |
| | Karlstad | 28.6 | 2.6 | NE-3 | 1 | N | N | 22.7 | Calais | 04.7 | 0.8 | 3 | SE-4 | 6 | N | A | | |
| SUECIA Y NORUEGA | Estocolmo | 32.0 | 2.2 | SE-4 | 0 | N | N | 27.4 | Abbeville | 04.5 | 0.0 | 3 | SSE-3 | 7 | 11 | N | 08.3 | SSW-3 |
| | Jönköping | 26.7 | 2.0 | SE-3 | 1 | N | N | 20.7 | El Havre | 04.6 | 0.4 | 2 | Cal-0 | 10 | LL | LL | 08.5 | SSW-4 |
| | Wisby | 29.6 | 2.0 | SSE-2 | -1 | N | N | 25.3 | Maguncia | ? | -1.4 | 8 | SE-2 | 7 | LL | LL | 11.0 | SW-1 |
| | Kalmar | 26.3 | 2.0 | ESE-4 | 1 | N | N | 22.3 | Brest | 05.6 | 0.4 | 3 | W-5 | 13 | 11 | N | 05.1 | SSW-5 |
| | Bronnö | | | | | | | | Lorient | 08.9 | 0.6 | 3 | NW-6 | 12 | N | N | 12.2 | W-5 |
| | Vallersund | | | | | | | | Rennes | 05.9 | 1.4 | 4 | NW-1 | 10 | 11 | 11 | 09.7 | SSW-1 |
| | Kinn | 20.1 | 2.0 | E-1 | 7 | D | D | 12.0 | Argentan | 04.3 | ? | | Cal-0 | 8 | NB | N | | |
| | Dombaas | 27.2 | 1.2 | S-1 | -1 | D | NV | 20.6 | Paris | | | | | | | | 11.4 | SW-1 |
| | Utsire | 20.2 | 3.0 | ESE-3 | 5 | LL | LL | 10.8 | Nancy | 11.1 | 0.2 | 3 | Cal-0 | 1 | N | N | | |
| | Fæerder | 25.8 | 1.6 | E-4 | 3 | N | N | 19.8 | Estrasburgo | 12.6 | -1.2 | 6 | Cal-0 | 3 | N | N | 18.1 | ? |
| | Lister | 20.5 | 2.2 | E-4 | 3 | 11 | 11 | 12.2 | Tours | 03.7 | 0.6 | 5 | NW-4 | 10 | N | LL | 13.0 | SW-3 |
| | Skagen | 22.7 | 1.4 | ESE-4 | 3 | N | A | 17.0 | Dijon | 08.8 | -2.6 | 8 | SSE-1 | 3 | N | N | 18.2 | SW-1 |
| | Hanstholm | 18.6 | 1.6 | ESE-3 | 3 | N | LL | 11.0 | Rocheft | 07.3 | 0.2 | 3 | A-1 | ? | N | NB | | |
| | Blaavands | 16.4 | 0.0 | ESE-3 | 4 | N | NB | 10.6 | Clermont | 06.5 | 0.8 | 3 | S-1 | 6 | LL | LL | | |
| | Copenhague | 20.4 | 1.0 | ESE-5 | 3 | N | LL | 16.4 | Lyon | 09.4 | -2.2 | 8 | SW-2 | 4 | LL | N | 18.5 | Cal-0 |
| | Hammershus | 21.2 | 1.0 | ESE-4 | 1 | N | A | 17.6 | Burdeos | 08.2 | 0.6 | 6 | W-3 | 13 | LL | LL | 16.9 | SW-1 |
| | Lerwick | 15.8 | 1.8 | SE-4 | 8 | 11 | 11 | 05.2 | Bayona | 12.2 | 0.4 | 3 | W-7 | 10 | LL | LL | | |
| | Stornoway | 09.1 | 1.6 | SE-3 | 9 | D | N | 08.4 | Tolosa | 08.9 | -2.6 | 8 | W-2 | 8 | LL | LL | 19.5 | SW-1 |
| | Wick | 12.2 | 2.0 | SE-4 | 9 | N | N | 00.6 | Marignane | 00.3 | -1.0 | 8 | ? | 5 | ? | N | 15.0 | NW-5 |
| | Aberdeen | 12.0 | 2.8 | SE-4 | ? | D | N | 00.7 | Perpiñan | 11.0 | ? | | Cal-0 | 8 | LL | LL | 17.8 | Cal-0 |
| | Malin Head | | | | | | | | Ajaccio | 01.0 | 0.2 | 4 | NNW-1 | ? | N | N | 12.2 | SW-1 |
| | Renfrew | | | | | | | 96.3 | Oporto | | | | | | | | | |
| | Tynemouth | 07.7 | 3.8 | SE-2 | 9 | N | N | | Colmbra | | | | | | | | | |
| | Blacksod | 07.5 | 2.0 | Cal-0 | 9 | N | N | | Lisboa | | | | | | | | 26.6 | N-0 |
| | Donaghadee | 07.1 | 2.0 | N-4 | 7 | N | N | | Lagos | 26.3 | 0.4 | 6 | Cal-0 | 10 | D | D | 25.5 | NNW-1 |
| | Holyhead | 07.2 | 2.6 | NNE-4 | 9 | N | N | 96.0 | Funchal | | | | | | | | | |
| | Cranwell | 06.0 | 2.8 | ENE-2 | 5 | NB | LL | 00.3 | Horta | 24.3 | 0.0 | 3 | WNW-1 | 16 | N | ? | | |
| | Yarmouth | 06.3 | 2.2 | SE-3 | 8 | LL | LL | | Turin | 02.5 | 0.8 | 8 | E-1 | 9 | NB | 11 | 24.5 | Cal-0 |
| | Valentia | 09.2 | 0.8 | Cal-0 | 12 | LL | LL | | Milan | 08.2 | 0.2 | 9 | Cal-0 | 7 | N | LL | | |
| | Pembroque | 06.5 | 2.2 | WNW-2 | 9 | N | N | | Pádua | | | | | | | | | |
| | Ross-on-Wye | | | | | | | | Venecia | | | | | | | | | |
| | Londres | 04.7 | 1.4 | N-1 | 6 | NB | N | 04.2 | Génova | 08.2 | 1.0 | 2 | Cal-0 | 7 | N | N | | |
| | Scilly | 08.8 | 1.4 | NW-4 | 11 | H | NB | | Florenzia | 07.0 | 0.0 | 3 | SE-1 | 10 | N | N | | |
| | Plymouth | 06.7 | 1.6 | WNW-1 | 9 | N | LL | 03.9 | Liorna | | | | | | | | | |
| | Calshof | 04.3 | 0.6 | WNW-3 | 7 | N | A | 04.5 | Ancona | 09.7 | -2.6 | 8 | Cal-0 | 13 | 11 | 11 | | |
| | Guernsey | 05.6 | 1.2 | WNW-4 | 11 | N | LL | 06.5 | Zara | 10.3 | 0.4 | 8 | SE-4 | ? | LL | N | | |
| | Borkum | 11.9 | 1.0 | ESE-3 | 4 | N | N | | Roma | | | | | | | | 12.9 | SSW-4 |
| | Lonngen | 15.8 | 0.8 | E-2 | 4 | NB | N | 13.1 | Magdalena | 10.3 | 0.6 | 7 | W-4 | 12 | N | N | | |
| | Hamburgo | 19.4 | 1.0 | E-2 | -1 | N | LL | 16.3 | Taranto | | | | | | | | | |
| | Swinemunde | 16.1 | 1.6 | ESE-3 | -5 | N | N | 23.0 | Mesina | 13.0 | 0.2 | 8 | SSE-3 | 16 | N | N | | |
| | Danzig | 19.3 | 1.4 | SE-3 | 4 | N | LL | 13.6 | Tánger | | | | | | | | 25.7 | Cal-0 |
| | Memel | 10.6 | 0.2 | E-2 | 4 | N | A | | Oran | 19.1 | 0.4 | 8 | SW-3 | 14 | N | N | 20.5 | W-3 |
| | Aquisgran | 15.8 | 0.2 | E-1 | 5 | NB | NB | 15.6 | Argel | 17.0 | 0.6 | 9 | WNW-1 | 15 | N | N | 18.7 | SSW-3 |
| | Magdeburgo | 17.3 | 1.4 | ESE-4 | 3 | N | 11 | 13.3 | Bizerta | | | | | | | | | |
| | Berlin | 16.2 | 0.2 | SSE-3 | 2 | N | LL | 15.7 | Túnez | | | | | | | | | |
| | Dresde | 19.3 | 0.2 | ESE-3 | 2 | N | N | 18.0 | Rabat | 23.7 | 0.0 | 3 | Cal-0 | 12 | N | NB | 24.7 | Cal-0 |
| | Breslau | 13.4 | 0.8 | Cal-0 | 5 | N | LL | 15.8 | Fez | 24.3 | 0.2 | 8 | S-2 | 9 | N | N | 24.2 | Cal-0 |
| | Francfort | 12.0 | 1.0 | NE-1 | 4 | N | N | 16.0 | Tazza | 23.0 | -1.2 | 6 | S-3 | 11 | N | N | | |
| | Carlsruha | 13.4 | -1.2 | ENE-2 | 2 | LL | 11 | 19.3 | Sfax | | | | | | | | | |
| | Munich | 21.2 | 1.0 | ESE-3 | 2 | N | N | | Casablanca | 23.5 | 0.0 | 3 | Cal-0 | 12 | N | N | | |
| | Posen | 26.5 | 1.4 | SE-4 | -6 | N | N | | Mequinez | 25.5 | 0.4 | 8 | SE-2 | ? | N | D | 24.6 | WNW-2 |
| | Varsovia | 22.4 | 0.0 | E-3 | -4 | N | N | | Agadir | 21.0 | 0.0 | 3 | Cal-0 | 14 | D | D | 21.4 | Cal-0 |
| | Cracovia | 20.7 | -1.0 | SSE-2 | -1 | 11 | NV | | | | | | | | | | | |
| | Viena | 20.4 | 0.4 | E-2 | 0 | NB | NV | | | | | | | | | | | |
| | Praga | 21.0 | 0.6 | N-1 | -1 | NB | LL | | | | | | | | | | | |
| | Buda-Pest | | | | | | | | | | | | | | | | | |

RADIOGRAMAS TRANSMITIDOS DESDE BARCOS

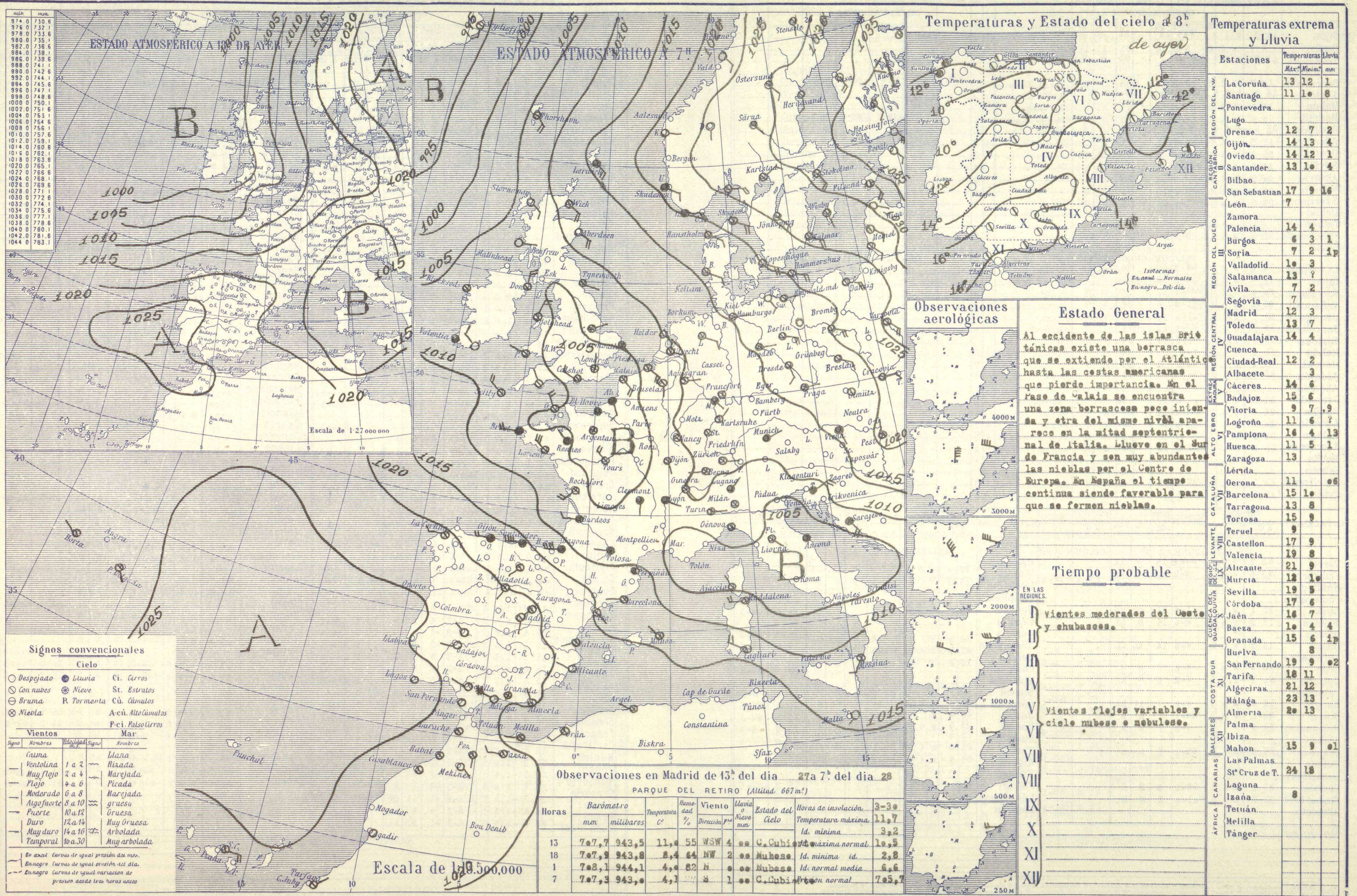


SERVICIO METEOROLÓGICO ESPAÑOL.

Boletín del *Sábado 28 de Noviembre de 1931*

AÑO XXXIX

Núm. 332



Temperaturas extrema y Lluvia

| Estaciones | Temperaturas | | Lluvia mm |
|----------------|--------------|--------|--------------|
| | Máx. | Mínim. | |
| La Coruña | 13 | 12 | 1 |
| Santiago | 11 | 10 | 6 |
| Pontevedra | | | |
| Lugo | | | |
| Orense | 12 | 7 | 2 |
| Oijón | 14 | 13 | 4 |
| Oviedo | 14 | 12 | 1 |
| Santander | 13 | 10 | 4 |
| Bilbao | | | |
| San Sebastián | 17 | 9 | 16 |
| León | 7 | | |
| Zamora | | | |
| Palencia | 14 | 4 | |
| Burgos | 6 | 3 | 1 |
| Soria | 7 | 2 | 1 p |
| Valladolid | 10 | 3 | |
| Salamanca | 13 | ? | |
| Ávila | 7 | 2 | |
| Segovia | 7 | | |
| Madrid | 12 | 3 | |
| Toledo | 13 | 7 | |
| Guadalajara | 14 | 4 | |
| Cuenca | | | |
| Ciudad-Real | 12 | 2 | |
| Albacete | | 3 | |
| Caceres | 14 | 6 | |
| Badajoz | 15 | 6 | |
| Vitoria | 9 | 7 | 9 |
| Logroño | 11 | 6 | ? |
| Pamplona | 16 | 4 | 13 |
| Huesca | 11 | 5 | 1 |
| Zaragoza | 13 | | |
| Lérida | | | |
| Gerona | 11 | 06 | |
| Barcelona | 15 | 10 | |
| Tarragona | 13 | 8 | |
| Tortosa | 15 | 9 | |
| Teruel | 9 | | |
| Castellón | 17 | 9 | |
| Valencia | 19 | 8 | |
| Alicante | 21 | 9 | |
| Murcia | 12 | 10 | |
| Sevilla | 19 | 5 | |
| Córdoba | 17 | 6 | |
| Jaén | 16 | 7 | |
| Baeza | 10 | 4 | 4 |
| Granada | 15 | 6 | 1 p |
| Huelva | | 8 | |
| San Fernando | 19 | 9 | 02 |
| Tarifa | 18 | 11 | |
| Algeciras | 21 | 12 | |
| Málaga | 23 | 13 | |
| Almería | 20 | 13 | |
| Palma | | | |
| Ibiza | | | |
| Mahón | 15 | 9 | 01 |
| Las Palmas | | | |
| Stº Cruz de T. | 24 | 18 | |
| Laguna | | | |
| Izaña | 8 | | |
| Tetuán | | | |
| Melilla | | | |
| Tánger | | | |

Signos convencionales

Cielo

- Despejado
- ☁ Con nubes
- ☂ Bruma
- ☉ Niebla
- ☁ Lluvia
- ❄ Nieve
- R Tormenta
- A-cú. Alto cúmulos
- P-cú. Pseudo cúmulos
- Ci. Cirros
- St. Estratos
- Cú. Cúmulos

Vientos

| Signo | Nombres | Velocidad | Signo | Nombres |
|-------|-------------|-----------|-------|--------------|
| — | Calma | 0 | — | Llana |
| — | Ventolina | 1 a 2 | — | Rizada |
| — | Muy flojo | 2 a 4 | — | Marejada |
| — | Flojo | 4 a 6 | — | Picada |
| — | Moderado | 6 a 8 | — | Marejada |
| — | Algo fuerte | 8 a 10 | — | gruesa |
| — | Fuerte | 10 a 12 | — | Gruesa |
| — | Duro | 12 a 14 | — | Muy gruesa |
| — | Muy duro | 14 a 16 | — | Arbolada |
| — | Temporal | 16 a 30 | — | Muy arbolada |

Mar

En azul Curvas de igual presión dos días.
En negro Curvas de igual presión del día.
En negro Curvas de igual variación de presión a este tres horas antes.

Escala de 1:27.000.000

Observaciones en Madrid de 13h del día 27 a 7h del día 28
PARQUE DEL RETIRO (Altitud 667 m.)

| Horas | Barómetro | | Temperatura C° | Humedad % | Viento Dirección y fuerza | Lluvia o Nieve mm | Estado del Cielo | Horas de insolación | |
|-------|-----------|-----------|-------------------|--------------|------------------------------|----------------------|------------------|---------------------|--------------------|
| | mm | milibares | | | | | | 3-30 | Temperatura máxima |
| 13 | 707,7 | 943,5 | 11,0 | 55 | WSW 4 | 0 | C. Cubi. | Id. máxima normal | 10,5 |
| 18 | 707,9 | 943,8 | 8,4 | 64 | NW 2 | 0 | Nuboso | Id. mínima id. | 2,8 |
| 1 | 708,1 | 944,1 | 4,0 | 82 | N 0 | 0 | Nuboso | Id. normal media | 6,6 |
| 7 | 707,3 | 943,0 | 4,1 | 77 | S 1 | 0 | C. Cubi. | Id. normal | 7,5 |

Tiempo probable

EN LAS REGIONES.

I } Vientos moderados del Oeste y chubascos.

II }
III }
IV }
V } Vientos flojes variables y cielo nuboso o nebuloso.

VI }
VII }
VIII }
IX }
X }
XI }
XII }

OBSERVACIONES DE ESPAÑA

| ESTACIONES | PRESIÓN MILIBARES | | VIENTO | TEMPERATURA | HUMEDAD | TIEMPO | NUBES | MAR | DIRECCIÓN Y FUERZA DEL VIENTO A | | | | | | | |
|--------------------|---------------------------------|-----------|--------|-------------|---------|--------|-------|-------------|---------------------------------|---------|-----|-------|-------|-------|------|------|
| | á O. N. M. G. N. | VARIACIÓN | | | | | | | C. | D. y F. | 250 | 500 | 1000 | 2000 | 3000 | 4000 |
| | OBSERVACIONES Á 7 ^h | | | | | | | | OBSERVACIONES Á | | | | | | | |
| La Coruña | 21.5 | +0.2 | 3 | W-3 | 14 | 85 | N N | St-cu Cu | 4 | | | | | | | |
| Gijón | 19.8 | +0.2 | 3 | W-4 | 13 | 95 | LL LL | Nb A-st | 3 | | | | | | | |
| Santander | 16.7 | +0.6 | 4 | W-2 | 14 | 95 | 11 11 | St-cu | 5 | | | | | | | |
| Valladolid | 21.9 | +0.4 | 6 | SSW-2 | 7 | 95 | N N | Nb A-cu | 7 | | | | | | | |
| Zaragoza | | | | | | | | | | | | | | | | |
| Barcelona | 13.7 | -1.6 | 8 | W-2 | 11 | 85 | N N | St-cu A-cu | 7 | W-4 | W-3 | W-9 | WNW-7 | WNW-9 | | |
| Tortosa | 14.5 | -2.6 | 8 | SE-1 | 1e | 75 | N N | Cu A-cu | 7 | | | | | | | |
| Mahón | 14.1 | -2.8 | 8 | NW-1 | 11 | 75 | N N | Cu A-st | 7 | | | | | | | |
| Madrid | 22.9 | +0.6 | 6 | S-1 | 4 | 95 | N N | St-cu A-cu | 5 | | | WNW-6 | NNW-8 | N-9 | | |
| Badajóz | 25.5 | +0.4 | 9 | W-2 | 7 | 85 | D N | St-cu Ci | 8 | | | | | | | |
| Alicante | 17.5 | +0.8 | 7 | WNW-2 | 11 | 75 | D D | St-cu Ci-st | 1 | | | | | | | |
| Granada | 25.3 | +0.3 | 3 | Cal-e | 7 | 95 | NB NB | | 3 | | | | | | | |
| Sevilla | 24.5 | +0.3 | 3 | WNW-1 | 6 | 55 | D N | Ci | 6 | | | | | | | |
| Almería | 20.5 | +0.4 | 4 | NNW-2 | 14 | 85 | N N | A-st | 1 | | | | | | | |
| Málaga | 22.1 | +0.4 | 4 | WNW-5 | 13 | 75 | D D | | 1 | | | | | | | |
| S. Fernando | 23.7 | +0.3 | 3 | Cal-e | 13 | 75 | D D | | 6 | | | | | | | |
| Melilla | | | | | | | | | | | | | | | | |
| Tetuán | | | | | | | | | | | | | | | | |
| S.ª C. de Tenerife | 23.3 | +0.4 | 1 | E-4 | 20 | 75 | N N | Cu | 2 | | | | | | | |
| Izaña | | | | | | | | | | | | | | | | |
| | OBSERVACIONES Á 18 ^h | | | | | | | | OBSERVACIONES Á | | | | | | | |
| La Coruña | 20.2 | +0.8 | 9 | SW-3 | 12 | 94 | 11 LL | Cu-nb | 5 | | | | | | | |
| Gijón | 19.7 | +0.6 | 8 | WSW-3 | 13 | 54 | N N | Cu-nb A-st | 3 | | | | | | | |
| Santander | 20.6 | -1.2 | 8 | WNW-1 | 12 | 54 | N N | St-cu | 4 | | | | | | | |
| Valladolid | 25.0 | +0.4 | 1 | Cal-e | 6 | 84 | N N | St-cu A-cu | 8 | | | | | | | |
| Zaragoza | 21.7 | +0.6 | 3 | Cal-e | 1e | 75 | N N | St-cu | | | | | | | | |
| Barcelona | 18.9 | +0.4 | 3 | NW-0 | 12 | 74 | N N | Cu A-cu | ? | | | | | | | |
| Tortosa | 19.9 | +1.0 | 3 | NNW-5 | 13 | 54 | N N | Cu | ? | | | | | | | |
| Mahón | 18.3 | +0.4 | 1 | N-3 | 13 | 64 | N N | St-cu | 1 | | | | | | | |
| Madrid | 21.0 | +0.4 | 3 | NW-2 | 8 | 64 | D N | | 7 | | | | | | | |
| Badajóz | 25.1 | +0.4 | 3 | WNW-2 | 12 | 75 | N N | A-st | 7 | | | | | | | |
| Alicante | | | | | | | | | | | | | | | | |
| Granada | 24.3 | +0.4 | 3 | Cal-e | 12 | 94 | N 11 | St-cu | 6 | | | | | | | |
| Sevilla | 24.1 | +0.3 | 3 | NW-2 | 16 | 85 | N N | St-cu | 6 | | | | | | | |
| Almería | 20.7 | +0.2 | 4 | Cal-e | 16 | 94 | N N | A-st | 7 | | | | | | | |
| Málaga | 21.9 | +0.2 | 3 | NNW-4 | 18 | 100 | N N | St-cu A-cu | 1 | | | | | | | |
| S. Fernando | 23.8 | +0.3 | 3 | WNW-3 | 16 | 94 | N 11 | Cu-nb | 1 | | | | | | | |
| Melilla | | | | | | | | | | | | | | | | |
| Tetuán | | | | | | | | | | | | | | | | |
| S.ª C. de Tenerife | 23.3 | +0.4 | 9 | ENE-2 | 21 | 74 | N N | Cu | 2 | | | | | | | |
| Izaña | 20.8 | +0.2 | 8 | WSW-5 | 3 | 85 | N N | A-cu | 6 | | | | | | | |

NOTICIAS

Expresado en medias horas antes observación.
 .. D Despejado o semidespejado - N Nuboso o cubierto - NB Niebla o bruma - A Aguaceros - ll Lloviadas - LL Lluvias - G Granizo (sin truenos) - An Aguanieve - nv Nieve - T Tormenta.
 ... D Despejado o semidespejado - N Nuboso - NC cubierto constantemente - NB Niebla o bruma - A Aguaceros - ll Lloviadas - nv Nieve o aguanieve - G Granizo (sin truenos) - T Tormenta.
 Sobre el nivel del mar.