

| Date and Position. | Hour. | Temperature of Air. | Temperature of Sea-Surface. | Date and Position. | Hour. | Temperature of Air. | Temperature of Sea-Surface. |
|--------------------|-------|---------------------|-----------------------------|--------------------|-------|---------------------|-----------------------------|
|                    |       | Deg. Cent.          | Deg. Cent.                  |                    |       | Deg. Cent.          | Deg. Cent.                  |
| September 13th     | 8     | 13·0                | 12·2                        | Abreast of Mull    | Noon. | 12·7                | 13·0                        |
|                    | 10    | 12·2                | 12·2                        |                    | 2     | 14·4                | 13·3                        |
|                    | Midn. | 12·2                | 12·2                        |                    | 4     | 14·4                | 13·3                        |
| September 14th     | 2     | 11·6                | 12·5                        |                    | 6     | 13·6                | 12·7                        |
|                    | 4     | 12·2                | 12·2                        |                    | 8     | 13·0                | 13·3                        |
|                    | 6     | 12·5                | 12·2                        |                    | 10    | 12·5                | 13·0                        |
|                    | 8     | 12·2                | 12·7                        |                    | Midn. | 12·0                | 13·0                        |
|                    | 10    | 11·6                | 12·7                        |                    |       |                     |                             |
|                    |       |                     |                             |                    |       |                     |                             |

II. SURFACE TEMPERATURES OBSERVED DURING THE SUMMER OF 1870.

| Date and Position.                                       | Hour. | Temperature of Air. | Temperature of Sea-Surface. | Date and Position.                                       | Hour. | Temperature of Air. | Temperature of Sea-Surface. |
|--|-------|---------------------|-----------------------------|--|-------|---------------------|-----------------------------|
|  |       | Deg. Cent.          | Deg. Cent.                  |  |       | Deg. Cent.          | Deg. Cent.                  |
| July 6th . . .<br>Off Scilly Islands                     | 2     | 13·9                | 12·2                        | July 7th . . .   | 6     | 19·4                | 16·4                        |
|  | 4     | 14·4                | 12·7                        |  | 8     | 17·2                | 16·1                        |
|  | 6     | 13·9                | 12·5                        |  | 10    | 16·9                | 16·4                        |
|  | 8     | 14·7                | 14·7                        | Midn.  | 16·6  | 16·4                |                             |
|  | 10    | 15·3                | 13·6                        | July 8th . . .<br>Lat. 48° 31' N. }<br>Long. 10° 6' W. } | 2     | 16·6                | 16·1                        |
|  | Noon. | 18·6                | 18·3                        |  | 4     | 16·1                | 16·1                        |
|  | 2     | 19·7                | 17·4                        |  | 6     | 16·9                | 16·1                        |
|  | 4     | 19·4                | 18·3                        |  | 8     | 19·1                | 16·2                        |
|  | 6     | 18·9                | 18·3                        |  | 10    | 20·8                | 16·1                        |
|  | 8     | 17·4                | 17·7                        |  | Noon. | 19·6                | 17·2                        |
| 10   | 16·6  | 17·2                | 2                           |  | 20·0  | 17·5                |                             |
| Midn.  | 16·1  | 17·2                | 4                           |  | 18·6  | 17·5                |                             |
| July 7th . . .<br>Lat. 48° 49' N. }<br>Long. 9° 35' W. } | 2     | 16·6                | 16·6                        |  | 6     | 19·1                | 17·5                        |
|  | 4     | 16·6                | 16·6                        |  | 8     | 17·7                | 17·2                        |
|  | 6     | 16·6                | 16·6                        | 10   | 16·9  | 17·2                |                             |
|  | 8     | 16·9                | 16·9                        | Midn.  | 16·6  | 16·9                |                             |
|  | 10    | 17·7                | 16·4                        | July 9th . . .   | 2     | 16·1                | 16·9                        |
|  | Noon. | 18·3                | 16·4                        |  | 4     | 16·6                | 16·6                        |
| 2  | 19·4  | 16·4                | 6                           |  | 16·1  | 16·6                |                             |
| 4  | 18·9  | 17·2                | 8                           |  | 16·1  | 16·6                |                             |