Joint WMO/IOC Technical Commission for Oceanography and Marine Meteorology (JCOMM)

Expert Team on Marine Climatology

First Session

Gdynia, Poland, 7 to 10 July 2004

Report by Responsible Members

Germany
1. Data Management

The German Meteorological Service, DWD, hosts one of the two Global Collecting Centres (GCCs) within the Marine Climatological Summaries Scheme and at the same time acts as Responsible Member for the South Atlantic MCSS Area.

After MQC check and exchange of the globally collected ship observations between the two GCCs the completed data sets are forwarded to the Responsible Members on a quarterly basis.

New versions of IMMT and MQCS were elaborated because of the extended size of the ship reports generated in the context of the VOSClim Project.
The total number of data sets received from the Area of Responsibility of RM Germany in 2003 amounts to more than 83,000.

There are also older reports contained in that number which were generated in the years before but delivered to the GCCs in 2003.
Ship reports received from Ships of the German VOS fleet in 2003:

<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
<th>Description</th>
<th>Value</th>
<th>Type</th>
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<tbody>
<tr>
<td>Selected Ships</td>
<td>346</td>
<td>-</td>
<td>93.547</td>
<td>Obs.</td>
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<tr>
<td>Supplementary Ships</td>
<td>4</td>
<td>-</td>
<td>413</td>
<td>Obs.</td>
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<td>Auxiliary Ships</td>
<td>27</td>
<td>-</td>
<td>14.491</td>
<td>Obs.</td>
</tr>
<tr>
<td>Ships with AWSt</td>
<td>14</td>
<td>-</td>
<td>95.665</td>
<td>Obs.</td>
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</table>
2. Preparation of Summaries

DWD as Responsible Member for the South Atlantic Area is finalizing the Marine Climatological Summaries for the 10 year period 1991 - 2000.

As a significant amount of data arrive with a delay of several years the start of the calculations had to take that into account.

The use of the climatological statistics is far more efficient if they are available on electronic media. DWD is no longer planning to print the 1991-2000 Summaries, but instead to publish them on CD-ROM.
Deutscher Wetterdienst

Marine Climatological Summary Scheme

Map of distribution of unit areas

preparation by Deutscher Wetterdienst
FIELD05 air_temperature July

Year

air_temp
No.Obs
FIELD77 air_temperature January
FIELD77 air_temperature July

The graph shows the air temperature over the years from 1991 to 2000. The y-axis represents the air temperature in degrees Celsius, ranging from 0 to 12°C. The x-axis represents the year from 1991 to 2000.

The data points indicate a significant decrease in air temperature starting from 1992, with a notable spike in 1995. The number of observations (No.Obs) is indicated by the pink line, which shows a decrease after 1992.

The graph includes two lines:
- The blue line represents the air temperature (air_temp).
- The pink line represents the number of observations (No.Obs).

Overall, the graph illustrates a downward trend in air temperature from 1992 onwards, with fluctuations in the number of observations.