DAILY SYNOPSTIC UPPER-AIR REPORTS

The sources of data, methods of accumulation, and index numbers used for the daily synoptic upper-air reports are quite similar to those used for the surface data and have been explained under "Daily Synoptic Surface Reports". However, the time of observations is different. For upper air reports, the observation at or nearest to 0000Z is shown in all cases. The time of the observation, to the nearest hour, is shown for each station.

Method of Presentation:

The upper air data are presented in four groups as follows:
1. Upper wind data for all days for stations reporting in the new code.
2. Upper wind data for all days for stations reporting in the old code.
3. Rain data for all days for stations reporting in the new code.
4. Rain data for all days for stations reporting in other new code.

As in the surface data, it is expected that all stations will be reporting in the new code in the near future. At each time, data of each type will be combined. The data in each group are presented numerically by block numbers (where applicable) and meteorologically by stations within each block. Upper air wind data are also shown for stations where the balloon was tracked by rawin or radiosonde methods.

Upper Air Wind Observations:

Each group of the upper air wind data contains all fields, radiosonde, and rawin data received for that category. The data are shown in two tabulations, the first containing values of wind direction and speed for levels through 20,000 feet, and the second the same type of information for levels above 20,000 feet.

Symbol headings used for upper air winds reported in the new code, referred to as Type I, are as follows:
- dd = Wind direction to 36 points.
- ff = Wind speed in knots.

Reports from stations in Russia are shown in the following manner:

<table>
<thead>
<tr>
<th>Block Code</th>
<th>Russian Station Code</th>
<th>Weather Station Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 08</td>
<td>Station number</td>
<td>Station number</td>
</tr>
<tr>
<td>Block 09</td>
<td>Time (Moscow)</td>
<td>Time (Moscow)</td>
</tr>
<tr>
<td>Block 10</td>
<td>dd Wind direction to 36 points</td>
<td>dd Wind direction to 36 points</td>
</tr>
<tr>
<td>Block 11</td>
<td>ff Wind speed in m.p.s.</td>
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Height and wind data are indicated as follows:
- Surface
- 9 200 meters
- 9 500 meters
- 9 1000 meters
- 9 2000 meters
- 9 etc.
- 9 0-10,000 meters

Reason for ceasing upper wind observation as follows:
- 9 Enter cloud
- 5 Lost in fog
- 2 Lost in mist
- 3 Lost accidentally
- 4 Lost in precipitation

Explanation of other codes used by individual stations can be found in R.O. 206, 1946.

Rain Data

Rain data is shown in three different tabulations. The first shows the station index number, the station name, and values of height, temperature, and dew point (and wind direction and speed where rawin or radiosonde methods were utilized), for the 1,000 mbar, 500 mbar, 200 mbar, and 500 mbar surfaces. The second tabulation shows data for the same elements for the 1000 mbar, 200 mbar, and 1000 mbar surfaces. The third tabulation shows values of pressure, temperature, and dew point for significant levels. In all cases, the first significant level contains the surface data. Although station names are not shown in the first two tabulations, the index numbers are identical to those used in the first tabulation, which shows the station name for each number. Thus, any station may be easily identified from each tabulation.

Where a radiosonde is not taken and the reason for the missed observation is known, the reason is indicated under surface winds in the following code:
- 01 = No balloons
- 02 = Low clouds
- 03 = Thick dust
- 04 = Fog
- 05 = No gas
- 11 = High or grey surface wind

Reports from ships are similar to those from land stations except that position is given instead of station name.

Explanation of the Russian code is as follows:

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