ASCII FORMAT for NCEI/ESRL ISPD Data Transfer v1.1
(All fields are to be right justified, unless otherwise noted)

Field 1, Pos: 1-13, Len: 13
Observation (Station) ID
Missing: 9999999999999
This field is designated for an identifier that represents a fixed station for land data. It represents a marine call sign or other marine identifier when present.
(NOTE: THIS FIELD IS TO BE LEFT JUSTIFIED)

Field 2, Pos: 14-15, Len: 2
Observation ID Type
Missing: 99
This field shows the type of station ID in Field 1.
01 WMO
02 WBAN
03 Air Force
04 COOP
05 Call Signs
06 Unknown or other – IDs assigned by source, which have the appearance of above
07 Ship, Ocean Station Vessel (OSV), or ice station call sign
08 Generic ID (e.g., SHIP, BUOY, RIGG, PLAT)
09 WMO 5-digit buoy number
10 Other buoy number (e.g., Argos or national buoy number)
11 Coastal-Marine Automated Network (C-MAN) ID (US NDBC operated)
12 Station name or number
13 Oceanographic platform/cruise number
14 Fishing vessel pseudo-ID
15 National ship number
16 Composite information from early ship data
17 Australia Bureau of Meteorology
32 Air Force – WBAN
33 Source Station ID – WMO

Field 3, Pos: 16-18, Len: 3
NCEP Observation Type Code
Missing: 999
This field is designated for NCEP observation type code.
120 Radiosonde Observation Data
132 Dropsonde Observation
180 Marine Observation Data
181 Station Observation Data
183 Station Observation only reporting sea level pressure
   Or when SLP is corrected with better quality (Field 17 = 1)
193 Digitized Mean Sea Level Pressure Bogus

Field 4, Pos: 19-22, Len: 4
Year
Missing: 9999
Year (GMT) of the observation record

Field 5, Pos: 23-24, Len: 2
Month
Missing: 99
Month (GMT) of the observation record

Field 6, Pos: 25-26, Len: 2
Day
Missing: 99
Day (GMT) of the observation record

Field 7, Pos: 27-28, Len: 2
Hour
Missing: 99
Hour (GMT) of the observation record

Field 8, Pos: 29-30, Len: 2
Minute
Missing: 99
Minute (GMT) of the observation record

Field 9, Pos: 31-37, Len: 7
Unique Observation Number Code
Missing: 9999999
A unique number assigned to each observation at the same observation time (year, month, day, hour, minute). Combining with Year, month, day, hour, minute forms a unique ID of each observation. E.g., the second observation in the Data Bank for February 2 1895 1201 GMT has field 9 = 0000002, and a unique observation code of 1895020212010000002.
Note: this value is assigned by ISPD. Sources providing data in this format should set the value to missing.

Field 10, Pos: 38-40, Len: 3
Time Code
Missing: 999
3-digit code describing how the time was determined
001 From source
005 Converted to GMT using time zones
006 Time may be 2100 or 1900 Central European Time (Swiss)
007 Converted to GMT using longitude

Field 11, Pos: 41-46, Len: 6
Latitude
Missing: 999.99
Latitude coordinate of a geophysical observation (-90.00 to 90.00)

Field 12, Pos: 47-52, Len: 6
Longitude
Missing: 999.99
The longitude coordinate of a geophysical observation (000.00 – 359.99)

Field 13, Pos: 53-56, Len: 4
Elevation
Missing: 9999
The elevation of a geophysical observation in meters relative to Mean Sea Level

Field 14, Pos: 57-63, Len: 7
Observed Sea Level Pressure
Missing: 9999.99
The atmospheric sea level pressure observation (hectopascals)
Note: all corrections for gravity and temperature have been applied.

Field 15, Pos: 64-64, Len: 1

**Quality Flag for Observed Sea Level Pressure**

0    Use this value
1    Don’t use this value
9    Not evaluated
M    Missing

*For ISD values, choice was made based on element quality flag:

<table>
<thead>
<tr>
<th>ISPD Summary</th>
<th>Original Value</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>Passed gross limits checks</td>
</tr>
<tr>
<td>0</td>
<td>1</td>
<td>Passed all quality control checks</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>Suspect</td>
</tr>
<tr>
<td>1</td>
<td>3</td>
<td>Erroneous</td>
</tr>
<tr>
<td>0</td>
<td>4</td>
<td>Passed gross limits check, from TD3280 or NCEI ASOS/AWOS</td>
</tr>
<tr>
<td>0</td>
<td>5</td>
<td>Passed all quality control checks, from TD3280 or NCEI ASOS/AWOS</td>
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<tr>
<td>1</td>
<td>6</td>
<td>Suspect, from TD3280 or NCEI ASOS/AWOS</td>
</tr>
<tr>
<td>1</td>
<td>7</td>
<td>Erroneous, from TD3280 or NCEI ASOS/AWOS</td>
</tr>
<tr>
<td>0</td>
<td>9</td>
<td>Passed gross limits check if element is present</td>
</tr>
</tbody>
</table>

*For Russian data, two tests were performed using the Flag 1 (Data Measurement Flag) and Flag 3 (Confidence level/status flag). If the Flag 1 test passed, Flag 3 was then evaluated:

**Flag 1: Data measurement flag**

<table>
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<tr>
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<th>Meaning</th>
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<tbody>
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<td>Blank</td>
<td>Measured value</td>
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<tr>
<td>1</td>
<td>D</td>
<td>Derived value</td>
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<tr>
<td>1</td>
<td>U</td>
<td>Suspect</td>
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**Flag 3: Confidence level/status flag**

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<td>0</td>
<td>Observed value has passed all original system checks</td>
</tr>
<tr>
<td>0</td>
<td>Blank</td>
<td>Unknown</td>
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<tr>
<td>1</td>
<td>B</td>
<td>Value failed QC checks</td>
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<tr>
<td>0</td>
<td>C</td>
<td>Scale corrected</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>Derived value</td>
</tr>
<tr>
<td>0</td>
<td>E</td>
<td>Edited value passed all original checks</td>
</tr>
<tr>
<td>0</td>
<td>H</td>
<td>Homologous value, rigorously tested</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>Interpolated value, not verified</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>Missing value</td>
</tr>
<tr>
<td>0</td>
<td>N</td>
<td>Not tested but within observed climatological boundaries</td>
</tr>
<tr>
<td>1</td>
<td>Q</td>
<td>Questionable (actually wrong)</td>
</tr>
<tr>
<td>0</td>
<td>R</td>
<td>Record breaking value</td>
</tr>
<tr>
<td>1</td>
<td>S</td>
<td>Suspect value (outside climatological boundaries, not verified)</td>
</tr>
<tr>
<td>0</td>
<td>T</td>
<td>Tested value, manually checked but not perfectly</td>
</tr>
</tbody>
</table>
Field 16, Pos: 65-71, Len: 7
**Observed Surface Pressure**
Missing: 9999.99
The atmospheric surface pressure observation at the indicated elevation (hectopascals)
Note: all corrections for gravity and temperature have been applied.

Field 17, Pos: 72-72, Len: 1
**Quality Flag for Observed Surface Pressure**
Missing: M
0 Use this value
1 Don’t use this value
9 Not evaluated
(See tables for Field 15)

-------- ORIGINAL DATA SECTION --------

Field 18, Pos: 73-81, Len: 9
**Original Observed Sea Level Pressure**
Missing: 999999999
The original atmospheric sea level pressure in original units indicated in field 19.

Field 19, Pos: 82-89, Len: 8
**Units of Original Observed Sea Level Pressure**
Missing: 99999999
Units of original observed sea level pressure. UDUNITS compliant.

Field 20, Pos: 90-98, Len: 9
**Original Observed Surface Pressure**
Missing: 999999999
The original atmospheric surface pressure in original units indicated in field 21.

Field 21, Pos: 99-106, Len: 8
**Units of Original Observed Surface Pressure**
Missing: 99999999
Units of original observed surface level pressure. UDUNITS compliant.

Field 22, Pos: 107-108, Len: 2
**Pressure Instrument Identifier**
Missing: 99
This field shows a type of instrument used for a given observation from source record or station library table.
01 aneroid
02 mercury

Field 23, Pos: 109-116, Len: 8
**Original Latitude**
Missing: 999999999
The original latitude coordinate of a geophysical observation from the source data

Field 24, Pos: 117-124, Len: 8
**Original Longitude**
The original longitude coordinate of a geophysical observation from the source data

Field 25, Pos: 125-130, Len: 6
**Original Elevation**
Missing: 9999999
The original elevation above mean sea level reported from the source data

Field 26, Pos: 131-138, Len: 8
**Units of Original Elevation**
Missing: 9999999
The units of the original elevation. UDUNITS Compliant.

------- ADJUSTMENTS SECTION ------

Field 27, Pos: 139-139, Len: 1
**Gravity Correction Made by Source**
Missing: 9
0 No
1 Yes

Field 28, Pos: 140-169, Len: 30
**Description of Gravity Correction Made By Source**
Missing: 99999999999999999999999999999999
Description of the method used for the gravity correction made by source

Field 29, Pos 170-170, Len: 1
**Gravity Correction Made by ISPD**
Missing: 9
0 No
1 Yes

Field 30, Pos: 171-200, Len: 30
**Description of Gravity Correction Made By ISPD**
Missing: 99999999999999999999999999999999
Description of the method used for the gravity correction made by ISPD

Field 31, Pos: 201-206, Len: 6
**Observed Temperature of Attached Thermometer in K**
Missing: 999999
Observed temperature of the attached thermometer in K.

Field 32, Pos: 207-215, Len: 9
**Original Temperature of Attached Thermometer**
Missing: 999999999
The original temperature of the attached thermometer in the original units

Field 33, Pos: 216-223, Len: 8
**Units of the Original Temperature of Attached Thermometer**
Missing: 999999999
The units of the original temperature of the attached thermometer. UDUNITS Compliant

Field 34, Pos: 224-224, Len: 1
**Temperature Correction Made by Source**
Missing: 9
Field 35, Pos: 225-254, Len: 30
Description of Temperature Correction Made By Source
Missing: 999999999999999999999999999999
Description of the method used for the temperature correction made by source

Field 36, Pos 255-255, Len: 1
Temperature Correction Made by ISPD
Missing: 9
0 No
1 Yes

Field 37, Pos: 256-285, Len: 30
Description of Temperature Correction Made By ISPD
Missing: 999999999999999999999999999999
Description of the method used for the temperature correction made by ISPD

Field 38, Pos: 286-286, Len: 1
Homogenization Correction Made by Source
Missing: 9
0 No
1 Yes

Field 39, Pos: 287-316, Len: 30
Description of Homogenization Correction Made By Source
Missing: 999999999999999999999999999999
Description of the method used for the homogenization correction made by source

Field 40, Pos 317-317, Len: 1
Homogenization Correction Made by ISPD
Missing: 9
0 No
1 Yes

Field 41, Pos: 318-347, Len: 30
Description of Homogenization Correction Made By ISPD
Missing: 999999999999999999999999999999
Description of the method used for the homogenization correction made by ISPD
### SOURCE ARCHIVE TRACKING SECTION ###

**Field 42, Pos: 348-353, Len: 6**

**International Surface Pressure Data Bank Collection ID**

<table>
<thead>
<tr>
<th>ISPD ID</th>
<th>Name</th>
<th>Description</th>
<th>PERIOD</th>
<th>Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>000100</td>
<td>ICOADS Release 2.1</td>
<td>Global Marine Surface Observations</td>
<td>1784-2005</td>
<td><a href="mailto:Scott.Woodruff@noaa.gov">Scott.Woodruff@noaa.gov</a></td>
</tr>
<tr>
<td>000104</td>
<td>ICOADS Release 2.4</td>
<td>Global Marine Surface Observations</td>
<td>1784-2007</td>
<td><a href="mailto:Scott.Woodruff@noaa.gov">Scott.Woodruff@noaa.gov</a></td>
</tr>
<tr>
<td>000105</td>
<td>ICOADS Release 2.5</td>
<td>Global Marine Surface Observations</td>
<td>1784-2007</td>
<td><a href="mailto:Scott.Woodruff@noaa.gov">Scott.Woodruff@noaa.gov</a></td>
</tr>
<tr>
<td>000200</td>
<td>ICOADS Auxiliary Kobe</td>
<td>Global Marine Surface Observations</td>
<td>1899-1943</td>
<td><a href="mailto:worley@ucar.edu">worley@ucar.edu</a></td>
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<tr>
<td>000300</td>
<td>ICOADS Auxiliary Whaling</td>
<td>Global Marine Surface Observations</td>
<td>1950-1984</td>
<td><a href="mailto:worley@ucar.edu">worley@ucar.edu</a></td>
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<tr>
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<td>ICOADS Auxiliary Russian</td>
<td>Global Marine Surface Observations</td>
<td>1950-2000</td>
<td><a href="mailto:worley@ucar.edu">worley@ucar.edu</a></td>
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<tr>
<td>000500</td>
<td>ICOADS Auxiliary Russian</td>
<td>Global Marine Surface Observations</td>
<td>1950-2000</td>
<td><a href="mailto:worley@ucar.edu">worley@ucar.edu</a></td>
</tr>
<tr>
<td>000700</td>
<td>ICOADS Auxiliary Challenger</td>
<td>Global Marine Surface Observations</td>
<td>1872-1876</td>
<td><a href="mailto:worley@ucar.edu">worley@ucar.edu</a></td>
</tr>
<tr>
<td>001000</td>
<td>Federal Climate Complex Integrated Surface Data</td>
<td>Global Land Surface Observations</td>
<td>1982-2013</td>
<td><a href="mailto:Neal.Lott@noaa.gov">Neal.Lott@noaa.gov</a></td>
</tr>
<tr>
<td>001002</td>
<td>CDMP SAO/1001 Forms</td>
<td>US Land Surface Observations</td>
<td>1893-1945</td>
<td><a href="mailto:Neal.Lott@noaa.gov">Neal.Lott@noaa.gov</a></td>
</tr>
<tr>
<td>001003</td>
<td>Russian Empire Stations</td>
<td>Russian Land Surface Observations</td>
<td>1871-2000</td>
<td><a href="mailto:Pasha.Grossman@noaa.gov">Pasha.Grossman@noaa.gov</a></td>
</tr>
<tr>
<td>001004</td>
<td>Air Weather Service TD13</td>
<td>Global Land Surface Observations</td>
<td>1928-1948</td>
<td><a href="mailto:worley@ucar.edu">worley@ucar.edu</a></td>
</tr>
<tr>
<td>001005</td>
<td>Hadley Center</td>
<td>individual stations from Hadley Center</td>
<td>1796-1965</td>
<td>Rob Allan and Mark Rodwell</td>
</tr>
<tr>
<td>001006</td>
<td>CDMP-international collection</td>
<td>Chile, Mexico, Uruguay</td>
<td>1879-1982</td>
<td><a href="mailto:Tom.Ross@noaa.gov">Tom.Ross@noaa.gov</a></td>
</tr>
<tr>
<td>001007</td>
<td>READER Antarctic/Southern Hemisphere</td>
<td>British Antarctic Survey</td>
<td>1947-2007</td>
<td><a href="http://www.antarctica.ac.uk">www.antarctica.ac.uk</a></td>
</tr>
<tr>
<td>001011</td>
<td>KNMI</td>
<td>KNMI stations, Indonesia, Africa, Europe</td>
<td>1801-2009</td>
<td><a href="mailto:Theo.Brandshu@knmi.nl">Theo.Brandshu@knmi.nl</a></td>
</tr>
<tr>
<td>001012</td>
<td>US Army Signal Service and other 19th Century Voluntary Obs</td>
<td>CDMP digitized station data</td>
<td>1816-1932</td>
<td>Nancy Westcott</td>
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<tr>
<td>001013</td>
<td>Atmospheric Circulation Reconstructions over the Earth (ACRE) initiative</td>
<td>international stations recovered by ACRE</td>
<td>1784-2011</td>
<td>Rob Allan</td>
</tr>
<tr>
<td>001014</td>
<td>Early Arctic observations</td>
<td>Arctic region observations</td>
<td>1848-1915</td>
<td>R.Przybylak &amp; Z.Visi @umk.pl</td>
</tr>
<tr>
<td>001015</td>
<td>EURO4M/MEDARE/C3 hourly SLP observations for North African stations</td>
<td>African stations</td>
<td>1852-1978</td>
<td>Manola Brunet</td>
</tr>
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<td>001016</td>
<td>International stations, University of South Carolina Historical Climate Lab</td>
<td>North and South America, 7 stations</td>
<td>1839-1914</td>
<td>Cary Mock</td>
</tr>
<tr>
<td>001017</td>
<td>Meteo-France</td>
<td>Tahiti</td>
<td>1957-1974</td>
<td><a href="mailto:sylvie.jourdian@meteo.fr">sylvie.jourdian@meteo.fr</a></td>
</tr>
<tr>
<td>001018</td>
<td>University of Giessen worldwide early data</td>
<td>Global observations</td>
<td>1822-1956</td>
<td>Juerg Luterbacher</td>
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<td>002000</td>
<td>NCEP-NCAR BUFR Archive</td>
<td>Global Observations</td>
<td>1959-1980</td>
<td>Robert <a href="mailto:Kistler@noaa.gov">Kistler@noaa.gov</a></td>
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<td>NCEP Operational BUFR Archive</td>
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<td><a href="mailto:Jack.Woolen@noaa.gov">Jack.Woolen@noaa.gov</a></td>
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<tr>
<td>003002</td>
<td>WASA Stations Observations SLP</td>
<td>Northern Europe, Greenland</td>
<td>1868-1995</td>
<td>Torben Schmith</td>
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<tr>
<td>003004</td>
<td>Environment Canada Pressure Obs</td>
<td>Canadian Stations</td>
<td>1848-2002</td>
<td><a href="mailto:Xiaolan.Wang@ec.gc.ca">Xiaolan.Wang@ec.gc.ca</a></td>
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<td>003005</td>
<td>West African Synoptic observations digitized by Meteo-France</td>
<td>West African countries’ Land Surface stations</td>
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<td><a href="mailto:Tom.Peterson@noaa.gov">Tom.Peterson@noaa.gov</a></td>
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<td>The Australian Bureau of Meteorology Station Pressure Dataset</td>
<td>Australian Land stations</td>
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<td>Northern Italian Pressure Observations</td>
<td>Italian stations</td>
<td>1803-1999</td>
<td><a href="mailto:maurizio.maugeri@unimi.it">maurizio.maugeri@unimi.it</a></td>
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<td>Hourly Surface Observations for Brazil</td>
<td>Brazilian stations</td>
<td>1950-1960</td>
<td><a href="mailto:datfore@ucar.edu">datfore@ucar.edu</a></td>
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<td>DWD web archive</td>
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<td>003011</td>
<td>ZAMG Austrian station observations</td>
<td>EMULATE Austrian Stations</td>
<td>1874-2002</td>
<td><a href="mailto:rob.allan@metoffice.gov.uk">rob.allan@metoffice.gov.uk</a></td>
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<td>South African Weather Service Stations</td>
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</tr>
<tr>
<td>003014</td>
<td>National Norwegian meteorological</td>
<td>Norwegian stations</td>
<td>1902-2006</td>
<td>Øyvind Nordli</td>
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<tr>
<td>ISPD ID</td>
<td>Name</td>
<td>Description</td>
<td>PERIOD</td>
<td>Contact</td>
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<td><a href="mailto:srnc@cirrus.dhz.hr">srnc@cirrus.dhz.hr</a></td>
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<tr>
<td>003016</td>
<td>Signatures of environmental change in the observations of the Geophysical Institutes</td>
<td>Global observations</td>
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<td>Maria Antonia Valente</td>
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<td><a href="mailto:ricardo.trip@fc.ul.pt">ricardo.trip@fc.ul.pt</a></td>
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<tr>
<td>003017</td>
<td>French hourly SLP from Meteo-France</td>
<td>French stations</td>
<td>1783-1973</td>
<td>Sylvie Guillaume</td>
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<tr>
<td>003018</td>
<td>Australia historical surface pressure</td>
<td>Australian stations</td>
<td>1788-1857</td>
<td>Linden Ashcroft</td>
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<td>New Zealand stations</td>
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<td>A. Lorrey</td>
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<td>003020</td>
<td>Spanish Met Office stations</td>
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<td>J.A. Lopez</td>
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<td><a href="mailto:jlopez@imm.es">jlopez@imm.es</a></td>
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<tr>
<td>003021</td>
<td>EMULATE Daily MSLP station data</td>
<td>Swiss stations</td>
<td>1755-1961</td>
<td>J. Luterbacher</td>
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<td>pdella-marta</td>
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<tr>
<td>003022</td>
<td>Mozambique station pressure</td>
<td>Mozambique stations</td>
<td>1951-2005</td>
<td>Chris.Reason</td>
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<td>ucl.ac.za</td>
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<tr>
<td>003023</td>
<td>Japan Agency for Marine-earth Science and Technology (JAMSTEC) archive</td>
<td>Philippines and Pacific islands</td>
<td>1913-1941</td>
<td>Hisayuki Kubota</td>
</tr>
<tr>
<td></td>
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<td></td>
<td><a href="mailto:kubota@jamstec.go.jp">kubota@jamstec.go.jp</a></td>
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<tr>
<td>003024</td>
<td>African SLP from Meteo France</td>
<td>Tunisia and Morocco stations</td>
<td>1899-1962</td>
<td><a href="mailto:olivier.mestre@meteo.fr">olivier.mestre@meteo.fr</a></td>
</tr>
<tr>
<td>003025</td>
<td>Tanzania station pressure</td>
<td>Tanzania stations</td>
<td>1972-2005</td>
<td>Chris.Reason</td>
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<td>ucl.ac.za</td>
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<tr>
<td>003026</td>
<td>Hourly pressure from China</td>
<td>Chinese stations</td>
<td>1950-2004</td>
<td>I.alexander</td>
</tr>
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<td></td>
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<td>uwr.edu.au</td>
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<tr>
<td>003027</td>
<td>All-Russia Research Institute of Hydrometeorological Information - World Data Centre (RIHM-LWDC)</td>
<td>Russian 3-hourly pressure observations</td>
<td>1935-2013</td>
<td>Olga N. Bulyagina</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td><a href="mailto:bulyagina@meteo.ru">bulyagina@meteo.ru</a></td>
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<tr>
<td>003028</td>
<td>Data from Russian Hydrometcentre</td>
<td>Russian synoptic data (similar to 3028 but different source)</td>
<td>2004-2013</td>
<td>Mikhal Tolstykh</td>
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<tr>
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<td></td>
<td><a href="mailto:tolstykh@imr.ras.ru">tolstykh@imr.ras.ru</a></td>
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<td><a href="mailto:mtolstykh@mail.ru">mtolstykh@mail.ru</a></td>
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<tr>
<td>003029</td>
<td>Early Russian Empire Stations, digitized in LDEO from Kupfers Annuiters</td>
<td>6 stations OCR+postprocessing</td>
<td>1835-1841</td>
<td>Alexey Kaplan</td>
</tr>
<tr>
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<td></td>
<td></td>
<td><a href="mailto:alexeyk@iode.columbia.edu">alexeyk@iode.columbia.edu</a></td>
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<tr>
<td>003030</td>
<td>Australian Meteorological Association, Todd Project team</td>
<td>Australian stations</td>
<td>1837-1905</td>
<td>M. Benoy</td>
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<tr>
<td></td>
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<td><a href="mailto:m.benoy@bom.gov.au">m.benoy@bom.gov.au</a></td>
</tr>
<tr>
<td>003031</td>
<td>Canadian Volunteer Climate Data Rescue Project</td>
<td>Canadian stations</td>
<td>1803-1873</td>
<td>Victoria Storonsky</td>
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<tr>
<td></td>
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<td><a href="mailto:victoria.storonsky@email.mcgill.ca">victoria.storonsky@email.mcgill.ca</a></td>
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<tr>
<td>003032</td>
<td>University of Aberdeen historical pressure observations</td>
<td>UK stations</td>
<td>1867-2011</td>
<td>Alastair Dawson</td>
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<td></td>
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<td><a href="mailto:alastair.dawson@abdn.ac.uk">alastair.dawson@abdn.ac.uk</a></td>
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<tr>
<td>003033</td>
<td>Icelandic Meteorological Office (IMO) Sea Level Pressure</td>
<td>Icelandic stations</td>
<td>1845-1873</td>
<td>Trausti Jonsson</td>
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<td><a href="mailto:trausti@vedur.is">trausti@vedur.is</a></td>
</tr>
<tr>
<td>003034</td>
<td>ERA-CLIM FFCUL (European Re-Analysis of Global CLIMate Observations Fundação da Faculdade de Ciências da Universidade de Lisboa / Instituto Dom Luiz)</td>
<td>15 African and Asian stations</td>
<td>1915-1946</td>
<td>Maria Antônia Valente</td>
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<td><a href="mailto:mavalente@fc.ul.pt">mavalente@fc.ul.pt</a></td>
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<td>003035</td>
<td>Australian Bureau of Meteorology—Australian Baseline Sea Level Monitoring Project (ABSLMP) and South Pacific Sea level and Climate Monitoring Project (SPSLCMP)</td>
<td>South Pacific land and island stations</td>
<td>1991-2012</td>
<td>Clinton Rakich</td>
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<tr>
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<td><a href="mailto:C.Rakich@bom.gov.au">C.Rakich@bom.gov.au</a></td>
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<tr>
<td>003036</td>
<td>Project IMPROVE</td>
<td>European land stations</td>
<td>1722-1865</td>
<td>D.Camuffo&lt;iasc.cnrr.it</td>
</tr>
<tr>
<td>003037</td>
<td>University of Barcelona</td>
<td>Barcelona, Paris Royal Observatory</td>
<td>1611-1620</td>
<td><a href="mailto:mbarniendos@ub.edu">mbarniendos@ub.edu</a></td>
</tr>
<tr>
<td>003038</td>
<td>University of Bern</td>
<td>US and European land stations</td>
<td>1815-1818</td>
<td><a href="mailto:Stefan.Broomhann1@gbu.unibe.ch">Stefan.Broomhann1@gbu.unibe.ch</a></td>
</tr>
<tr>
<td>003039</td>
<td>Stockholm University</td>
<td>Stockholm</td>
<td>1756-2012</td>
<td>Anders Moberg</td>
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<tr>
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<td><a href="mailto:anders.moberg@natgeo.su.se">anders.moberg@natgeo.su.se</a></td>
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<tr>
<td>003040</td>
<td>University of East Anglia</td>
<td>London</td>
<td>1815-1817</td>
<td><a href="mailto:R.Cornes@uae.ac.uk">R.Cornes@uae.ac.uk</a></td>
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<td>003041</td>
<td>University of Gdansk</td>
<td>Gdansk</td>
<td>1815-1817</td>
<td><a href="mailto:geoff@ug.edu.pl">geoff@ug.edu.pl</a></td>
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<tr>
<td>003100</td>
<td>ACRE-Pacific: Cook Island Met Services</td>
<td>Pacific island stations</td>
<td>1929-2010</td>
<td>Andrew Lorrey</td>
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<td><a href="mailto:a.lorrey@niwa.co.nz">a.lorrey@niwa.co.nz</a></td>
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<tr>
<td>003101</td>
<td>ACRE-Pacific: Pacific Island Met Services</td>
<td>Pacific island stations</td>
<td>1929-1950</td>
<td>Andrew Lorrey</td>
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<tr>
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<td><a href="mailto:a.lorrey@niwa.co.nz">a.lorrey@niwa.co.nz</a></td>
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<tr>
<td>004000</td>
<td>Hong Kong Hourly Pressure Observations</td>
<td>Hong Kong Observatory</td>
<td>1884-2011</td>
<td>H Y Mok</td>
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<td><a href="mailto:hymok@hkgo.gov.hk">hymok@hkgo.gov.hk</a></td>
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<tr>
<td>004001</td>
<td>Jakarta/Batavia Pressure Observations</td>
<td>Dutch Royal Observatory</td>
<td>1865-1941</td>
<td><a href="mailto:spangler@ucar.edu">spangler@ucar.edu</a></td>
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<tr>
<td>004002</td>
<td>William Hutchinson pressure, Liverpool</td>
<td>Proudman Ocean. Laboratory stations</td>
<td>1768-1793</td>
<td>P. Woolworth</td>
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<td><a href="mailto:plw@pol.ac.uk">plw@pol.ac.uk</a></td>
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<tr>
<td>004003</td>
<td>Jersey, Channel Island Pressure Obs</td>
<td>Jersey, Channel Island stations</td>
<td>1842-2006</td>
<td>leibniz.fg.jerseymet.ge Gobierno</td>
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<td><a href="mailto:i.wlab@hotmail.com">i.wlab@hotmail.com</a></td>
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<td>004004</td>
<td>CMDP-USNO</td>
<td>US Naval Observatory at Washington</td>
<td>1942-1981</td>
<td><a href="mailto:tom.rose@noaa.gov">tom.rose@noaa.gov</a></td>
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<tr>
<td>004005</td>
<td>Russian Sitka Sea Level Pressure, University of South Carolina Climate Lab</td>
<td>Sitka</td>
<td>1843-1967</td>
<td>Cary Mock</td>
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<td><a href="mailto:MOCKCJ@mailbox.sc.edu">MOCKCJ@mailbox.sc.edu</a></td>
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<tr>
<td>004006</td>
<td>University of Toronto British Everest Expedition meteorological observation</td>
<td>Mt Everest, May and June 1924</td>
<td>1924-1924</td>
<td>G.W.K. Moore</td>
</tr>
<tr>
<td></td>
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<td><a href="mailto:gwk.moore@utoronto.ca">gwk.moore@utoronto.ca</a></td>
</tr>
</tbody>
</table>
ISPD ID | Name | Description | PERIOD | Contact
---|---|---|---|---
004007 | University of Extremadura | Spanish land stations | 1815-1817 | f.dominguez@fis.ucm.es
004008 | University of Helsinki | Finnish station Ylitornio | 1800-1826 | jari.a.holopainen@helsinki.fi
005000 | Antarctic Expeditions | expedition bases | 1899-1941 | rob.allan@metoffice.gov.uk
006000 | Canadian Arctic Fort Rae SLP | Fort Rae | 1882-1883 | Xiaolan.Wang@ec.gc.ca
010000 | NCAR upper air stations | | 1943-1998 | Joey Comeaux joey@ucar.edu

0000-0999 marine collections
1000-1000 international station collections
2000-2999 National Center for Environmental Prediction collections
3000-3999 regional collections
4000-4999 individual station collections
5000-5999 Antarctic expedition collections
6000-6999 Arctic expedition collections
10000-19999 National Center for Atmospheric Research upper-air station collections

Field 43, Pos: 354-354, Len: 1

Source Flag for Land Station Data
Missing: 9
For ISD Observations (ISPD ID 1000), this code corresponds to the Geophysical Point Observation Data
Source Flag (positions 28-28 of ISD record):
1. USAF SURFACE HOURLY observation, candidate for merge with NCEI SURFACE HOURLY (not yet merged, failed element cross-checks)
2. NCEI SURFACE HOURLY observation, candidate for merge with USAF SURFACE HOURLY (not yet merged, failed element cross-checks)
3. USAF SURFACE HOURLY/NCEI SURFACE HOURLY merged observation
4. USAF SURFACE HOURLY observation
5. NCEI SURFACE HOURLY observation
6. ASOS/AWOS observation from NCEI
7. ASOS/AWOS observation merged with USAF SURFACE HOURLY observation
8. MAPSO observation (NCEI)
A. USAF SURFACE HOURLY/NCEI HOURLY PRECIPITATION merged observation, candidate for merge with NCEI SURFACE HOURLY (not yet merged, failed element cross-checks)
B. NCEI SURFACE HOURLY/NCEI HOURLY PRECIPITATION merged observation, candidate for merge with USAF SURFACE HOURLY (not yet merged, failed element cross-checks)
C. USAF SURFACE HOURLY/NCEI SURFACE HOURLY/NCEI HOURLY PRECIPITATION merged observation
D. USAF SURFACE HOURLY/NCEI HOURLY PRECIPITATION merged observation
E. NCEI SURFACE HOURLY/NCEI HOURLY PRECIPITATION merged observation
F. Form OMR/1001 – Weather Bureau city office (keyed data)
G. SAO surface airways observation, pre-1949 (keyed data)
H. SAO surface airways observation, 1965-1981 format/period (keyed data)
I. Climate Reference Network observation
J. Cooperative Network observation
K. Radiation Network observation
L. Data from Climate Data Modernization Program (CDMP) data source
M. Data from National Renewable Energy Laboratory (NREL) data source
N. NCAR / NCEI cooperative effort (various national datasets)
Field 44, Pos: 355-359, Len: 5

**Report Type Code**

Missing: 99999

For ISD Observations (ISPD ID 1000), this code corresponds to the Geophysical Report Type Code (positions 42-46 of ISD record):

- **FM-12** SYNOP Report of surface observation form a fixed land station
- **FM-13** SHIP Report of surface observation from a sea station
- **FM-14** SYNOP MOBIL Report of surface observation from a mobile land station
- **FM-15** METAR Aviation routine weather report
- **FM-16** SPECI Aviation selected special weather report
- **FM-18** BUOY Report of a buoy observation
- **AERO** Aerological report
- **AUST** Dataset from Australia
- **AUTO** Report from an automatic station
- **BOGUS** Bogus report
- **BRAZ** Dataset from Brazil
- **COOPD** US Cooperative Network summary of day report
- **COOPS** US Cooperative Network soil temperature report
- **CRB** Climate Reference Book data from CDMP
- **CRN05** Climate Reference Network report, with 5-minute reporting interval
- **CRN15** Climate Reference Network report, with 15-minute reporting interval
- **GREEN** Dataset from Greenland
- **MESOS** MESONET operated civilian or government agency
- **MEXIC** Dataset from Mexico
- **NSRDB** National Solar Radiation Data Base
- **PCP15** US 15-minute precipitation network report
- **PCP60** US 60-minute precipitation network report
- **S-S-A** Synoptic, airways, and auto merged report
- **SA-AU** Airways and auto merged report
- **SAO** Airways report (includes record specials)
- **SAOSP** Airways special report (excluding record specials)
- **SHEF** Standard Hydrologic Exchange Format
- **SMARS** Supplementary airways station report
- **SOD** Summary of day report from U.S. ASOS or AWOS station
- **SOM** Summary of month report from U.S. ASOS or AWOS station
- **SURF** Surface Radiation Network report
- **SY-AE** Synoptic and aero merged report
- **SY-AU** Synoptic and auto merged report
- **SY-MT** Synoptic and METAR merged report
- **SY-SA** Synoptic and airways merged report
- **WBO** Weather Bureau Office
- **WNO** Washington Naval Observatory
- **KL** Positions XX-XX from source 003010 report

Field 45, Pos: 360-364, Len: 5

**Quality Control Indicators for Sea Level Pressure Value (Field 18)**

Missing: 99999

For ISD observations (ISPD ID 1000), this code corresponds to ISD data quality flag

For Russian Empire observations (ISPD 1003) this code corresponds to 4-character 9290c flags.

Field 46, Pos: 365-369, Len: 5

**Quality Control Indicators for Surface Level Pressure Value (Field 20)**

Missing: 99999

For ISD observations (ISPD ID 1000), this code corresponds to ISD data quality flag
For Russian Empire observations (ISPD 1003) this code corresponds to 4-character 9290c flags.
For DWD observations this code corresponds to the DWD QC indicator.

Field 47, Pos: 370-399, Len: 30
**Name of Ships or Stations**
Missing: 999999999999999999999999999999
Name of Ships or Stations from source record or station library table

Field 48, Pos: 400-402, Len: 3
**Name of Station Library**
Missing: 999
000  From Source
001  Joey Comeaux Library
002  TD-13 library
003  NCEP Library 1
004  NCEP Library 2
005  NCEI Global Station List
006  For a given month, with observations that vary in location, the
    positions of all the month's observations were set to the mode of all of the
    monthly varying observation locations
007  NCEI
010  EMULATE