

# RIHMI contribution to ERA-CLIM2 WP3\_3

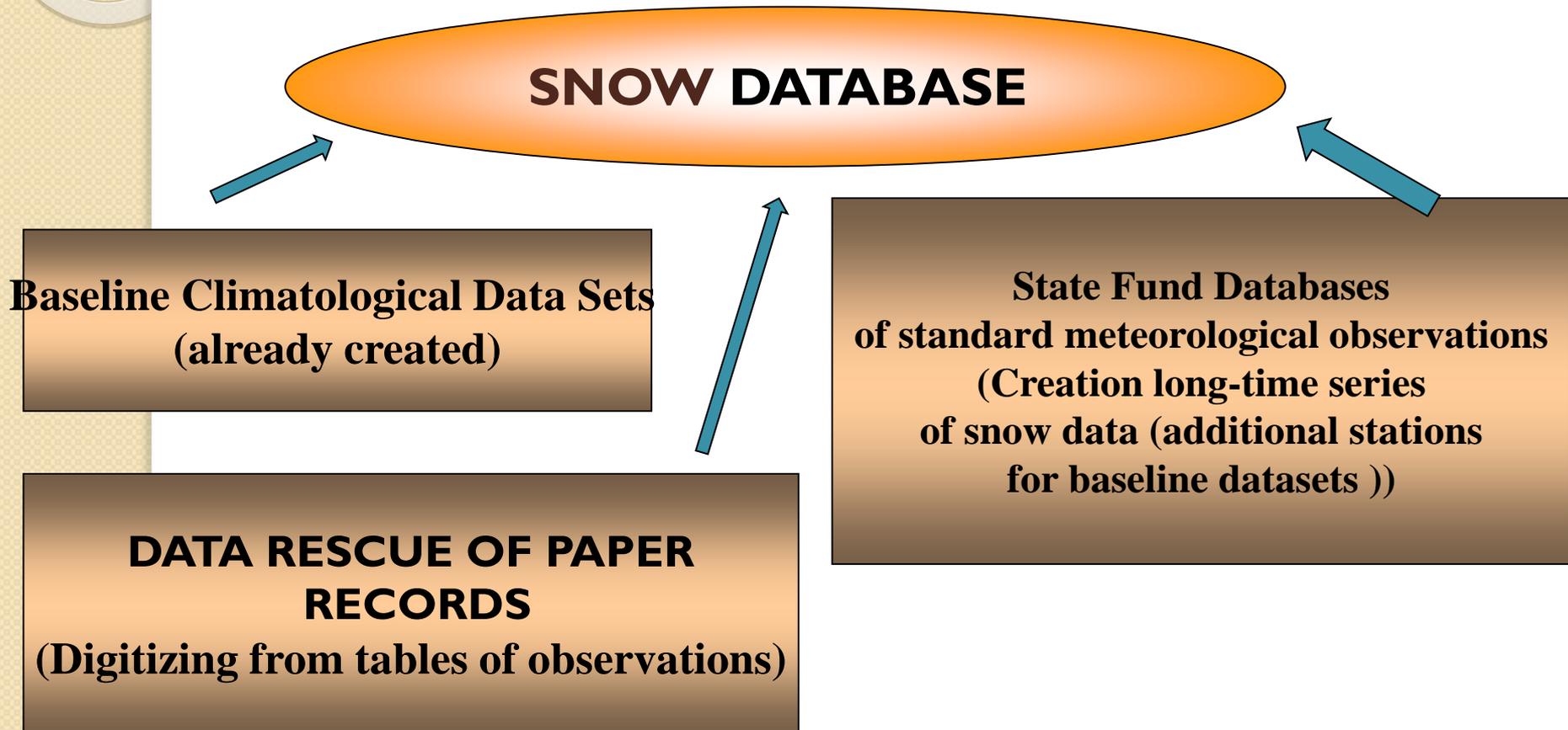
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<http://www.meteo.ru>



# Main sources of **SNOW DATA** information: Three sources of Roshydromet



# The contents and format of data set of snow cover characteristics for stations site observations

<b>Field number</b>	<b>Field contents</b>	<b>Notes</b>
<b>1</b>	<b>WMO index of station</b>	
<b>2</b>	<b>Year</b>	
<b>3</b>	<b>Month</b>	
<b>4</b>	<b>Day</b>	
<b>5</b>	<b>Snow depth</b>	<b>In cm</b>
<b>6</b>	<b>Extent of snow cover around the station</b>	<b>In numbers on ten-number scale, see Table 2 on next slides</b>
<b>7</b>	<b>Q- Complementary flag of snow depth</b>	<b>See Table 3 on next slides</b>

## **Extent of snow cover around the station**

<b>Observation period</b>	<b>Extent of snow cover around the station</b>	<b>Value Q</b>
<b>Before July 1959</b>	<b>50% and less than 50% of the area around the station</b>	<b>0</b>
	<b>More than 50% of the area around the station</b>	<b>1</b>
<b>From August 1959 up to the present day</b>	<b>Extent of snow cover around the station is estimated from ten-number scale. For example, the lack of snow is 0, 20% of the area around the station covered with snow is 2, 50% of the area around the station covered with snow is 5, etc.</b>	<b>From 0 to 10</b>

Table 3

## Complementary flag of snow depth

SITUATION	FLAG
Value of snow depth is correct	0
Continuous snow melting	1
Snow cover absent at site, however there is snow in the neighbor vicinity and a state of it is specified.	2
Snow cover is less than 0.5 cm	3
Observations were not made or value is rejected	9

## The format of data set of snow cover state characteristics

N	Field contents
1	Index WMO
2	Latitude
3	Longitude
4	Year
5	Month
6	Day
7	Route ( Path ) type 1 - field environment; 2 - forest environment; 3 – ravine (canions)
8	Extent of snow cover over route surroundings (0 -10)
9	Extent of snow cover along a route (0-10)
10	Extent of crust along a route (0-10)

N	Field contents
11	Snow cover depth average (sm)
12	Snow cover depth maximum (sm)
13	Snow cover depth minimum (sm)
14	Snow density (g/sm <sup>A3</sup> )
15	Thickness of crust layer (mm)
16	Thickness of water-inundated snow cover (sm)
17	Thickness of pure water (sm)
18	Water equivalent of snow cover (mm)
19	General water amount (mm)
20	Snow covering type
21	Snow cover type

The data set contains data for 1966 - 2013.

## SNOW COVER CHARACTERISTICS

<http://meteo.ru/english/climate/snow.php>

To create (mainly based on manual digitizing and on data management and check) data set of daily snow cover observations. These daily snow cover observations at meteorological stations include snow depth measurements and determination of the snow cover extent over the near-station territory and the character (type) of snow cover. As much as 65 stations will be added to the existing database

Will be mentioned in WP3\_3 Report



# Thank you for attention!