



# SUMMARY OF SEASONAL WEATHER FORECAST FOR OCTOBER – DECEMBER 2011

Hydrometeorology Center  
State Agency for Hydrometeorology of Tajikistan

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Jointly with Hydrometeorology Center of Russian “Roshydromet”

October 5, 2011



# Seasonal Weather Forecasts

Weather forecasts were developed jointly with Hydrometeorology Center of Russia for;

1. December 2008 – February 2009;
2. January – March 2011;
3. October – December 2011.

# Seasonal weather forecast for October 2011.

Average temperature (**2 – 3°C above average range**)

Location	Average temperature (°C)
Lower elevation districts	+15 to +19°C
Higher elevations ( 1,500 to 2,000 m)	+6 to +10°C
High lands (3,000 to 4,000 m)	+2 to -2°C

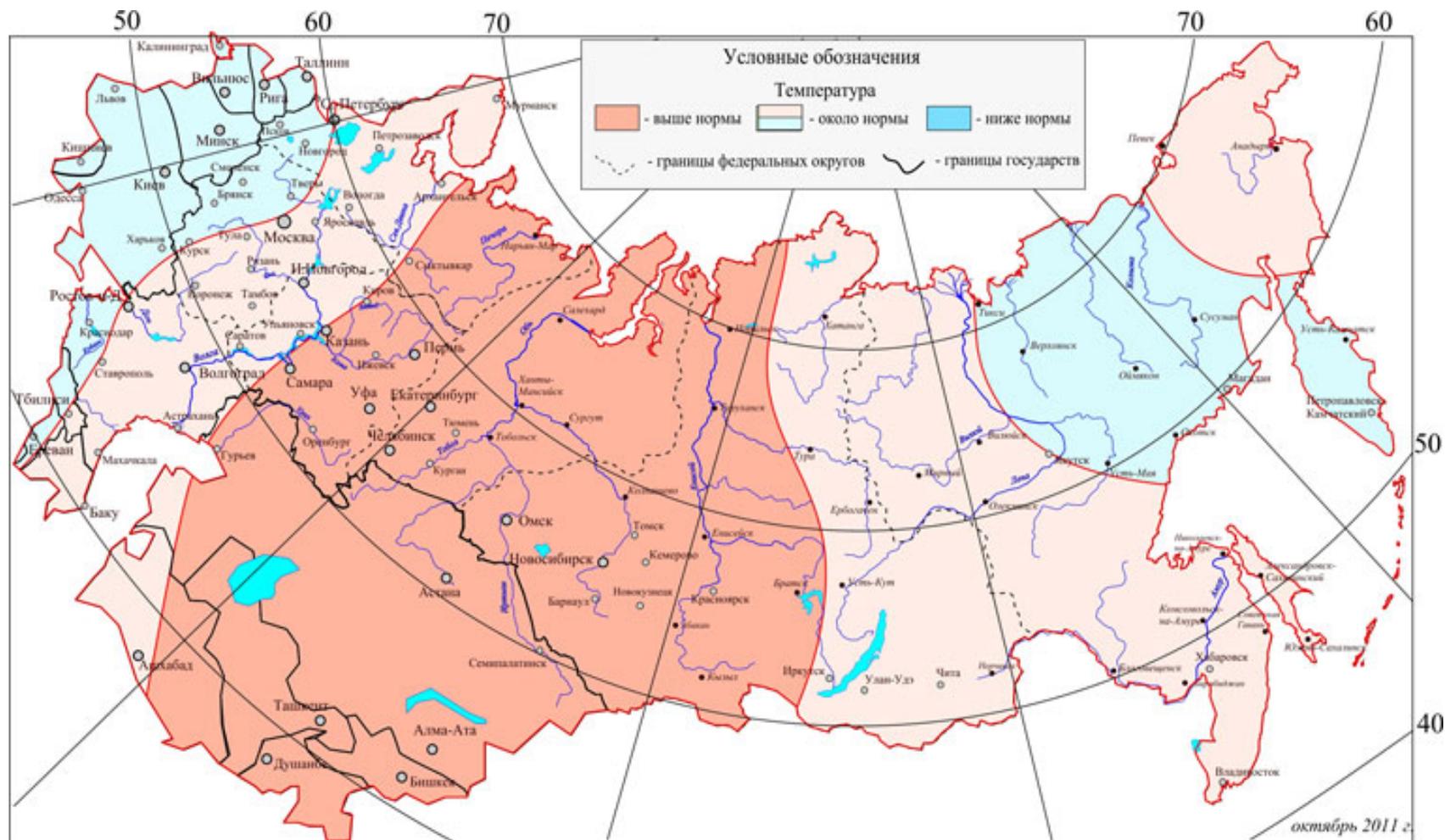
Average precipitation (**within average range**)

Location	Average precipitation (mm)
Lower elevations	10 – 35 mm
Higher elevations ( 1,500 to 2,000 m)	28 – 58 mm
High lands (3,000 to 4,000 m)	3 – 7 mm

Note:

- Lower Elevations – Dushanbe, Hissar, Yavan, Khuajand, Dangara, Kayrakum, Kurgan-Tube, Pyanj.
- Higher Elevations ( 1,500 to 2,000 m) – Varzob, Rasht, Khorog, Darvoz, Ishkashim, Rushan, Iskanderkul, Muminabad.
- Highlands (3,000 to 4,000 m) – Anzob, Shahrستان, Murgab, Bulunkul, Shaymak.

# Map of temperature forecast for October 2011.



# Seasonal weather forecast for November 2011.

## Average temperature (1 – 2°C above average range)

Location	Average temperature (°C)
Lower elevation districts	+9 to +12°C
Higher elevations ( 1,500 to 2,000 m)	+1 to +4°C
High lands (3,000 to 4,000 m)	-7 to - 11°C

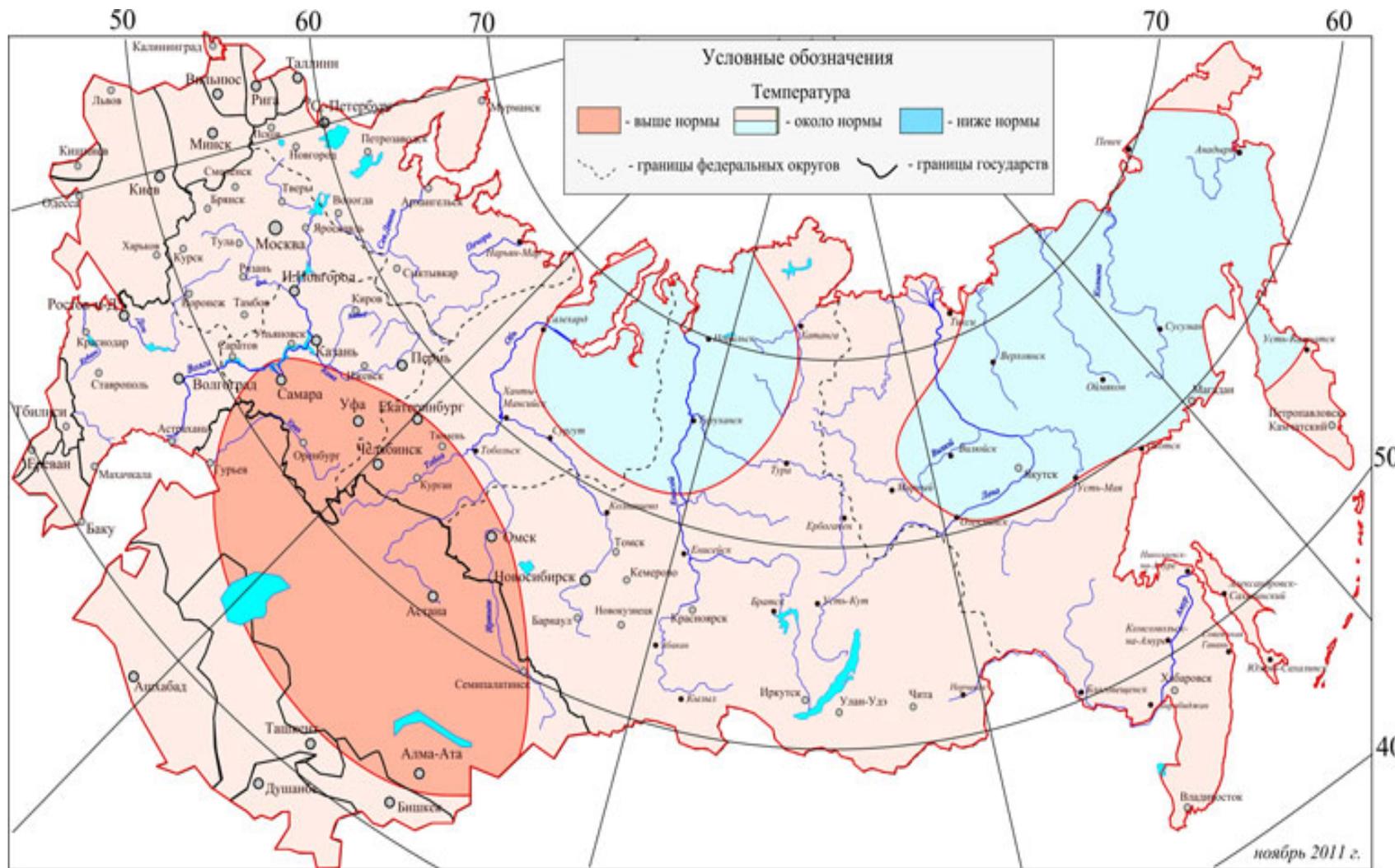
## Average precipitation (within average range)

Location	Average precipitation (mm)
Lower elevation districts	10 – 47 mm
Higher elevations ( 1,500 to 2,000 m)	15 – 66 mm
High lands (3,000 to 4,000 m)	1 – 6 mm

### Note:

- Lower Elevations – Dushanbe, Hissar, Yavan, Khuajand, Dangara, Kayrakum, Kurgan-Tube, Pyanj.
- Higher Elevations ( 1,500 to 2,000 m) – Varzob, Rasht, Khorog, Darvoz, Ishkashim, Rushan, Iskanderkul, Muminabad.
- Highlands (3,000 to 4,000 m) – Anzob, Shahristan, Murgab, Bulunkul, Shaymak.

# Map of temperature forecast for November 2011.



# Seasonal weather forecast for December 2011.

## Average temperature(**within average range**)

Location	Average temperature (°C)
Lower elevation districts	+ 2 to + 6°C
Higher elevations ( 1,500 to 2,000 m)	- 2 to - 6°C
High lands (3,000 to 4,000 m)	- 15 to - 20°C

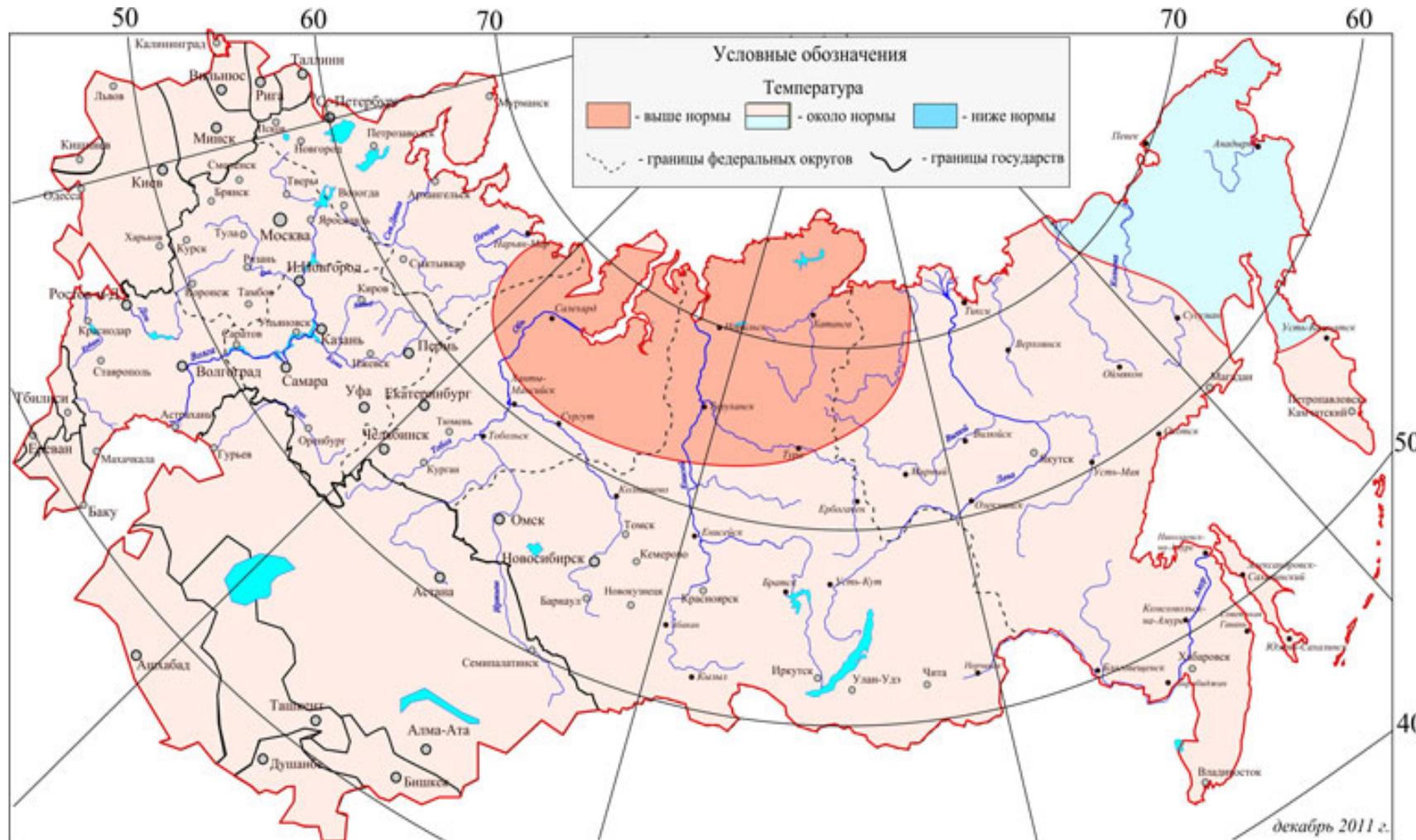
## Average precipitation (**within average range**)

Location	Average precipitation (mm)
Lower elevation districts	15 – 70 mm
Higher elevations ( 1,500 to 2,000 m)	63 – 130 mm
High lands (3,000 to 4,000 m)	3 – 15 mm

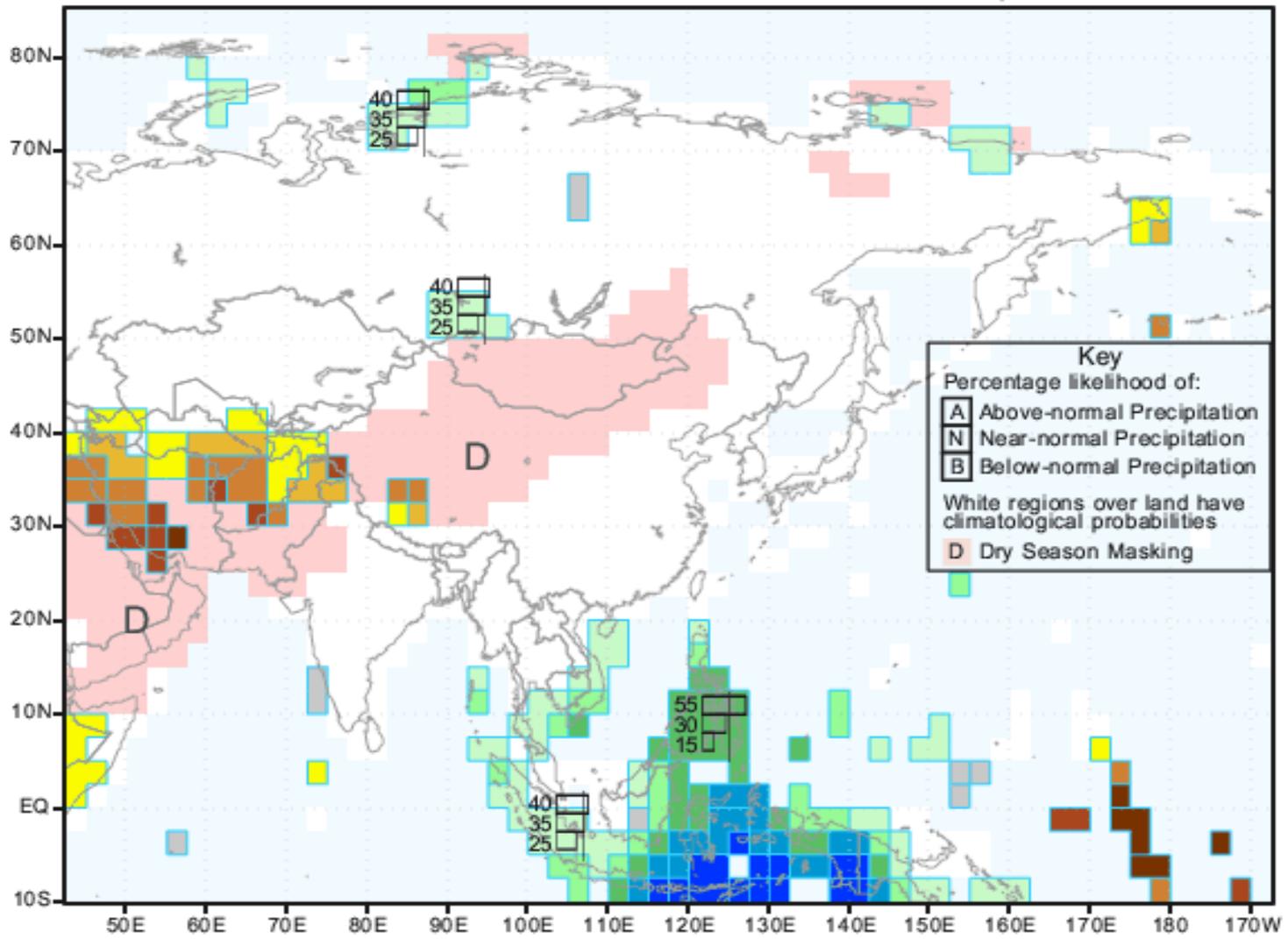
### Note:

- Lower Elevations – Dushanbe, Hissar, Yavan, Khuajand, Dangara, Kayrakum, Kurgan-Tube, Pyanj.
- Higher Elevations ( 1,500 to 2,000 m) – Varzob, Rasht, Khorog, Darvoz, Ishkashim, Rushan, Iskanderkul, Muminabad.
- Highlands (3,000 to 4,000 m) – Anzob, Shahristan, Murgab, Bulunkul, Shaymak.

# Map of temperature forecast for December 2011.



# IRI Multi-Model Probability Forecast for Precipitation for October-November-December 2011, Issued September 2011



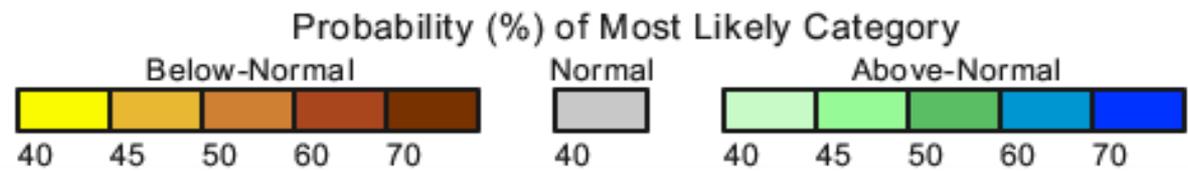
**Key**

Percentage likelihood of:

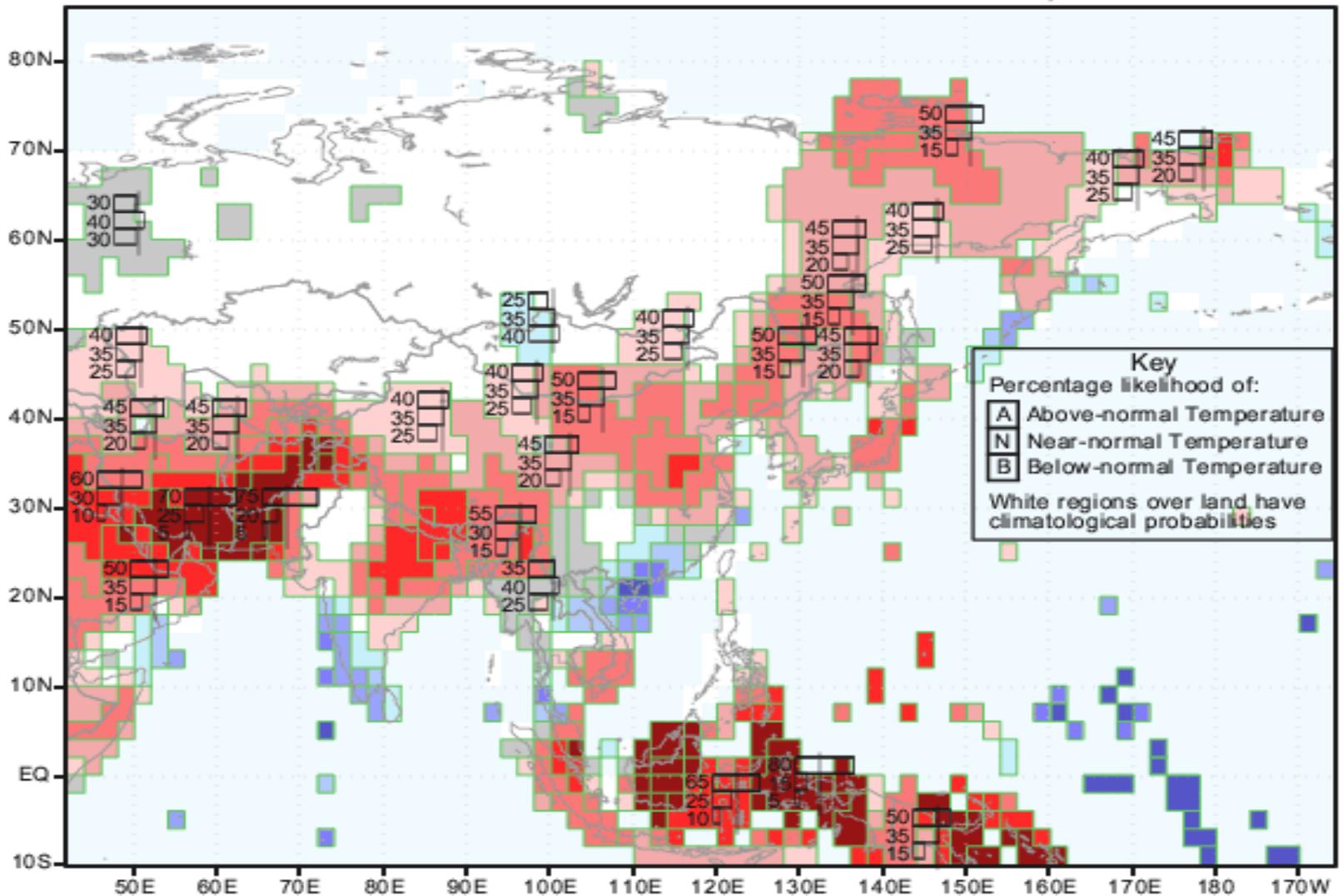
- A** Above-normal Precipitation
- N** Near-normal Precipitation
- B** Below-normal Precipitation

White regions over land have climatological probabilities

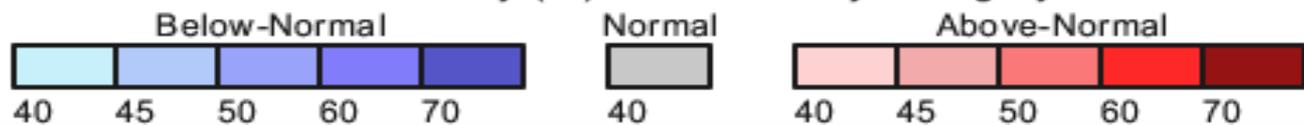
**D** Dry Season Masking



# IRI Multi-Model Probability Forecast for Temperature for October-November-December 2011, Issued September 2011



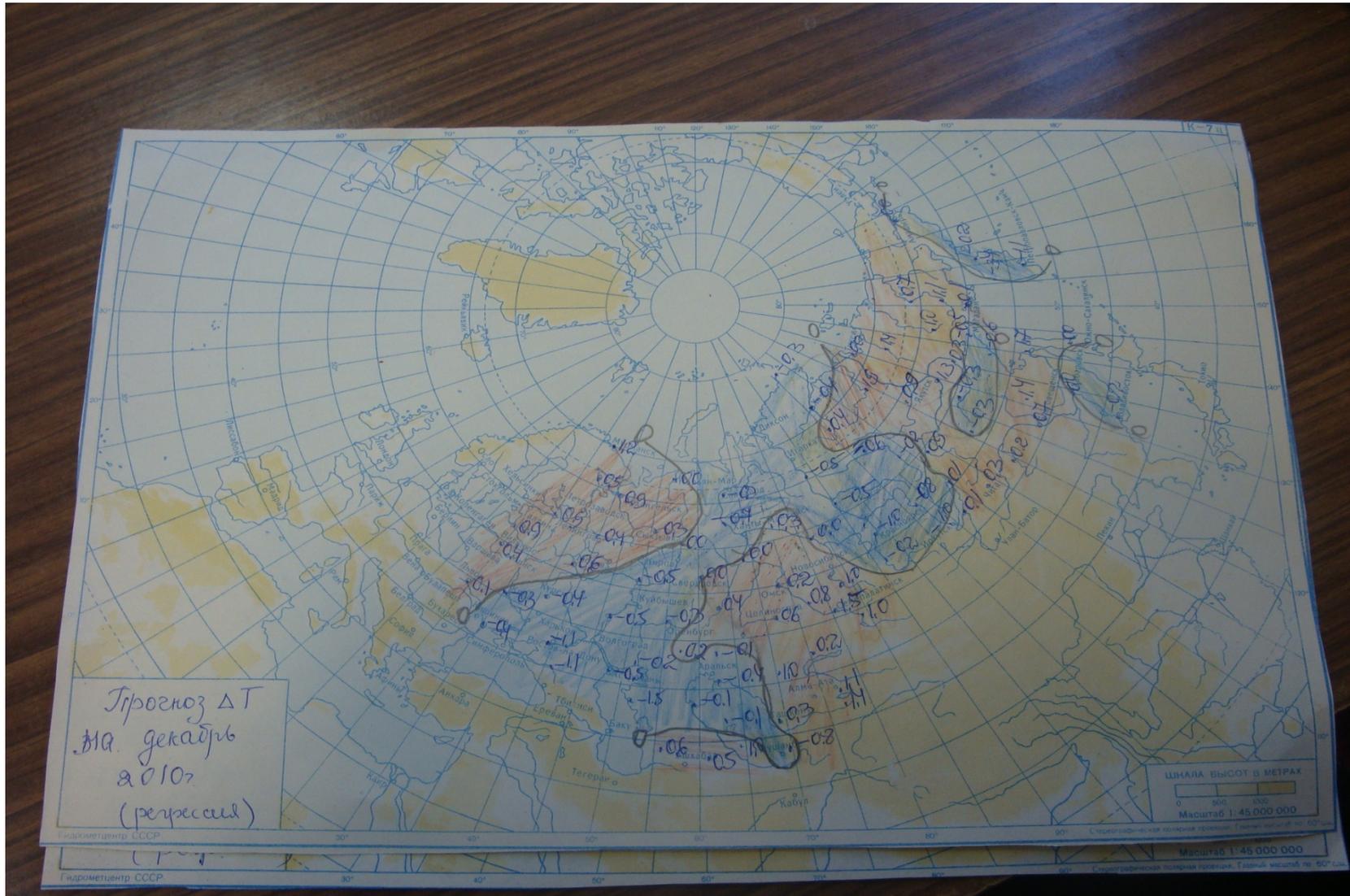
Probability (%) of Most Likely Category



# Analogue process of forecasting in Hydrometeorology Center in Russia



# Analogue maps for forecasting



# Required annual activities

- Snowpack Survey at higher elevations for flood forecasting and water supply during vegetation season;
- Seasonal Forecasting for fall-winter-spring;
- HR and Technical Capacity Development;
- Partnership with international and governmental organizations.



# Thank You!

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