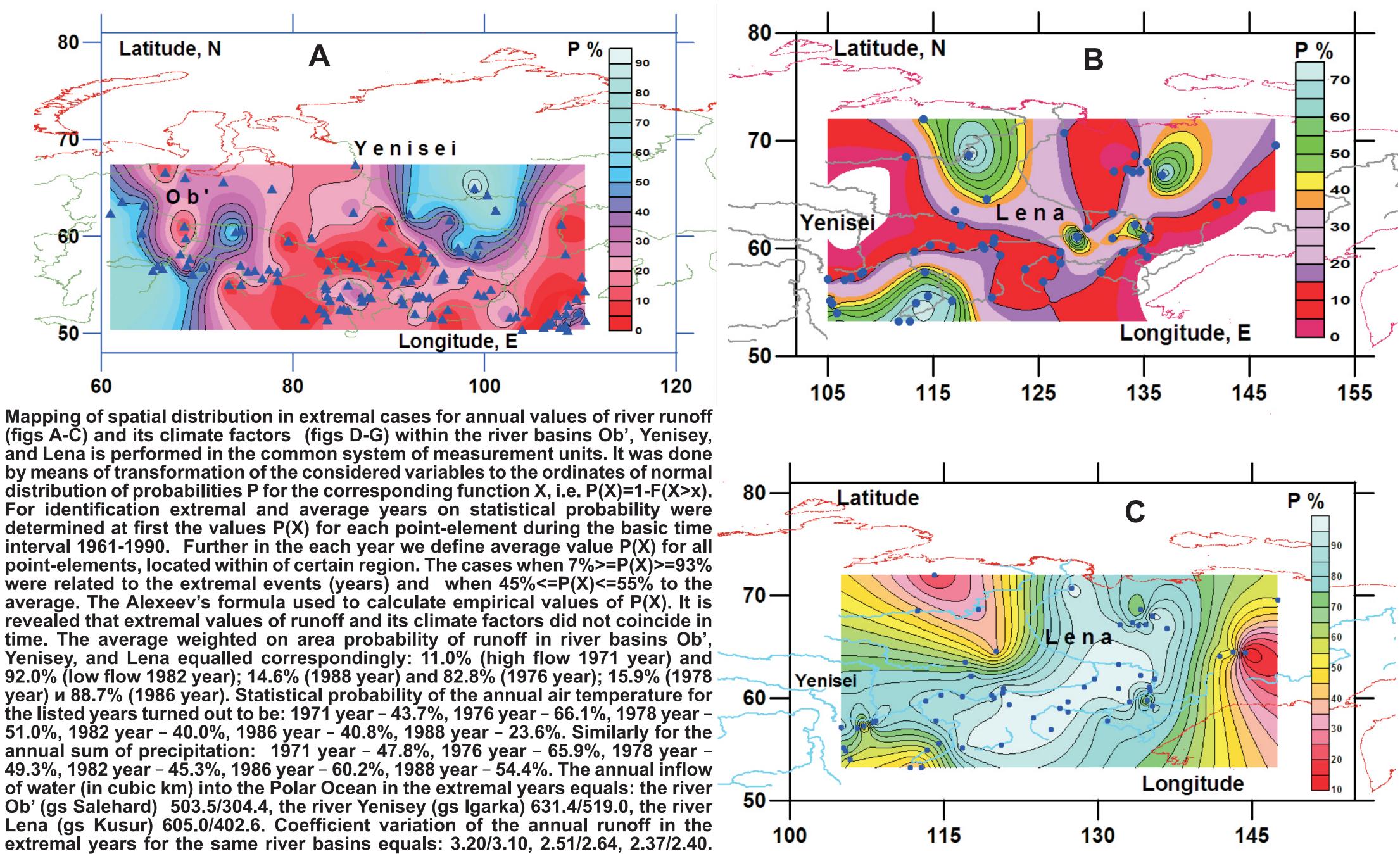
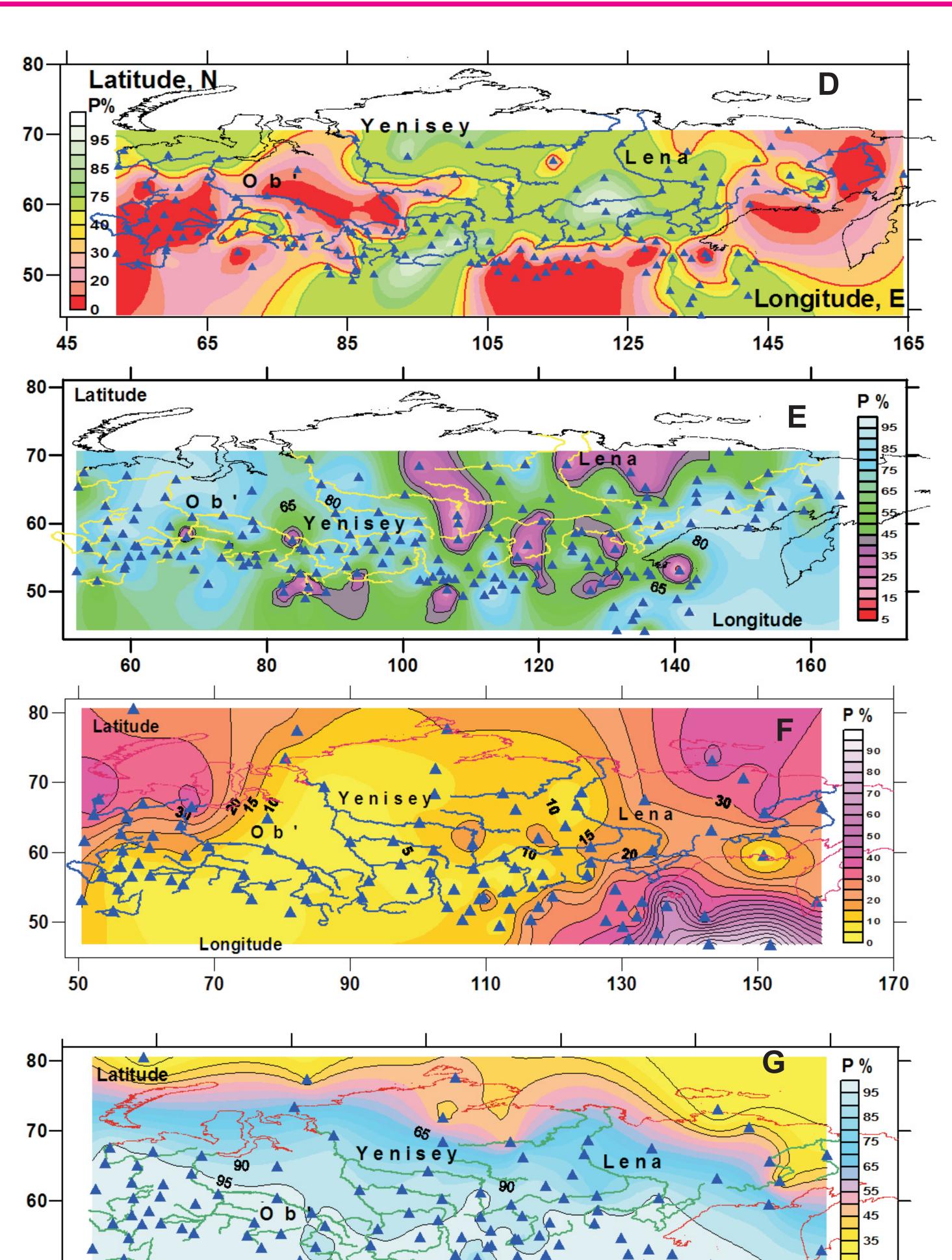
## Spatial distribution of annual runoff and its climate factors in the extremal years. Case study for the largest Siberian Rivers: Ob', Yenisey, Lena

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time. The average weighted on area probability of runoff in river basins Ob', Yenisey, and Lena equalled correspondingly: 11.0% (high flow 1971 year) and 92.0% (low flow 1982 year); 14.6% (1988 year) and 82.8% (1976 year); 15.9% (1978 year) и 88.7% (1986 year). Statistical probability of the annual air temperature for the listed years turned out to be: 1971 year – 43.7%, 1976 year – 66.1%, 1978 year – 51.0%, 1982 year – 40.0%, 1986 year – 40.8%, 1988 year – 23.6%. Similarly for the 3 annual sum of precipitation: 1971 year – 47.8%, 1976 year – 65.9%, 1978 year – 49.3%, 1982 year - 45.3%, 1986 year - 60.2%, 1988 year - 54.4%. The annual inflow of water (in cubic km) into the Polar Ocean in the extremal years equals: the river Ob' (gs Salehard) 503.5/304.4, the river Yenisey (gs Igarka) 631.4/519.0, the river Lena (gs Kusur) 605.0/402.6. Coefficient variation of the annual runoff in the extremal years for the same river basins equals: 3.20/3.10, 2.51/2.64, 2.37/2.40. Here in numerator is high flow, denominator - low flow year.



## **Captions for figs (A-G)**

1. (A-C): Spatial distribution of probability (P%) of annual runoff in extremal high flow year (A-B) within the river basins Ob', Yenisey, Lena and (C) in extremal low flow year within the river basin Lena.

2. (D-G): Spatial distribution of probability (P%) of annual precipitation (D-E) and air temperature (F-G) within the river basins Ob', Yenisey, Lena in extremal years. D - 1990 year, average P=37%, E - 1976 year, average P=66%, F - 1983 year, average P=17%, G - 1969 year, average P=88%. Triangles and circles of blue color in figs (A-G) denote points of hydro and meteo measurements.

Mean weighted by area intra-annual distribution of runoff for rivers Lena (a), Yenisey (b), and **Ob'(c) in the extremal years** 

