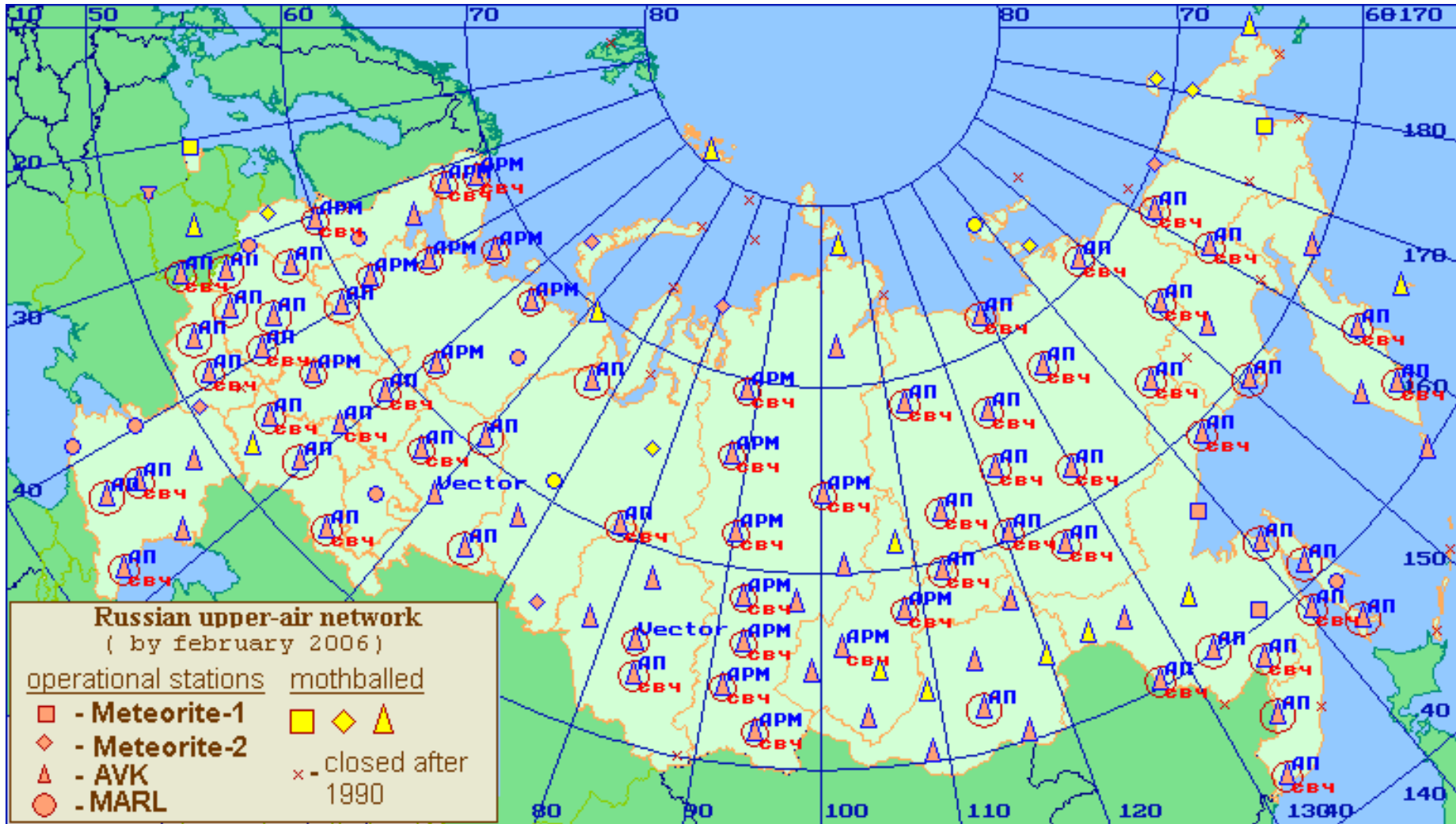


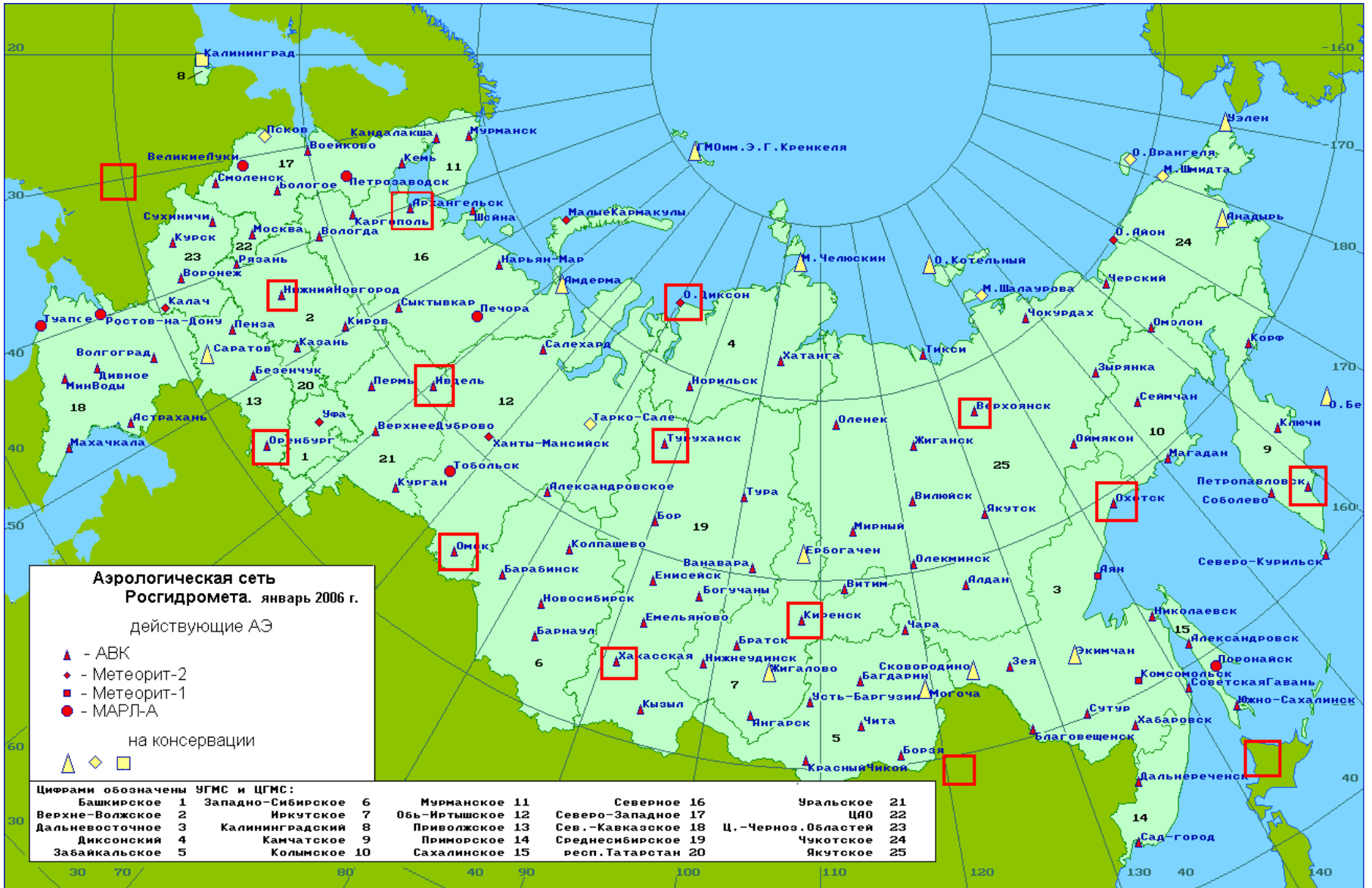


Russian upper-air network

<http://cao-ntcr.mipt.ru/monitor/locatore.htm>



Russian GUAN stations



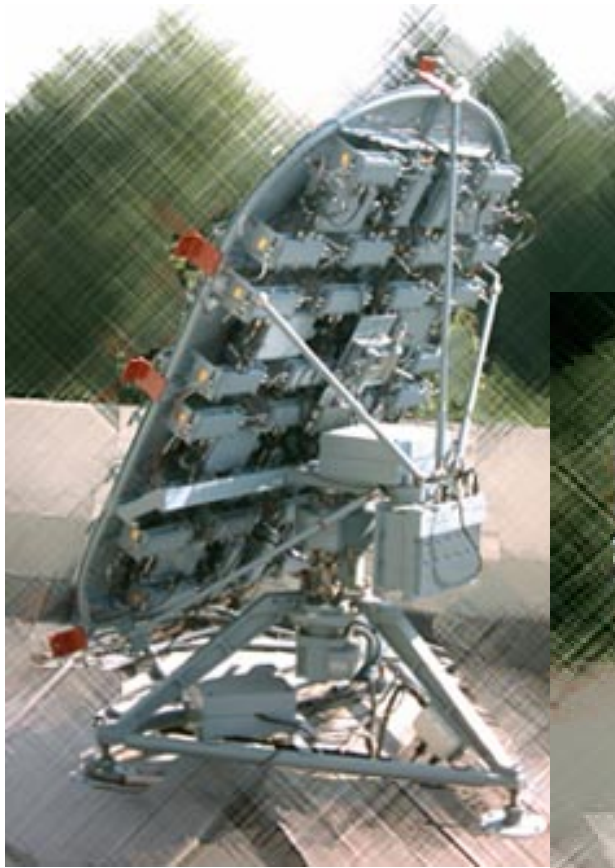
AVK-radar



AVK micro-computer replacement



MARL



Russian radiosondes MRZ-3A (clones - MRZ-3A*, RZM-2) and RF95

Goldbeater-skin
sensor



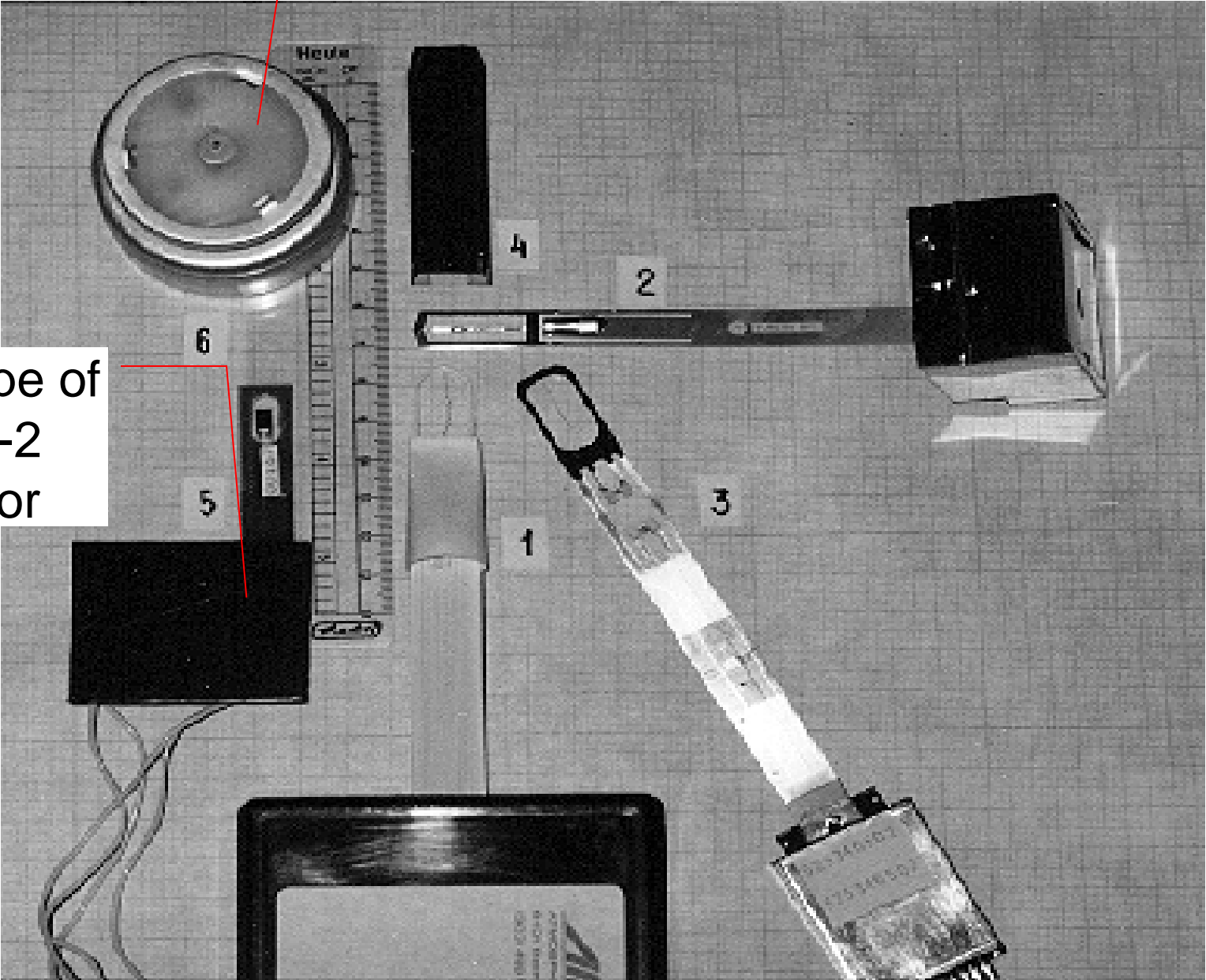
White coated rod
thermistor



Sensor boom of
Vaisala RSS80TU
(A-HUMICAP)
sensor unit

Goldbeater-skin sensor

Prototype of RZM-2 sensor



Characteristics

	RF95	MPZ
Temperature		
Measuring range, °C	-90...+60	-90...+50
Reproducibility in sounding, °C	Below 100 hPa: <0.2 (for RS90 <0.2) Above 100 hPa: <0.3 (for RS90 <0.2)	0.4
Time constant at normal conditions, s	<2.5	<10
Maximal value of radiation correction, °C	<3	<10
Sampling rate	1.2...1.8 s	10.5 s
Relative humidity		
Measuring range, %	0...100	15..98
Temperature range, °C	-90...+60	-40...+50
Maximal error, %	<7	<15
Time constant at normal conditions, s	<1	<20
Sampling rate	1.2...1.8 s	21 s
AVK (MARL) tracking performance		
Reproducibility of slant range, m	30	
Reproducibility of elevation, °	0.12	