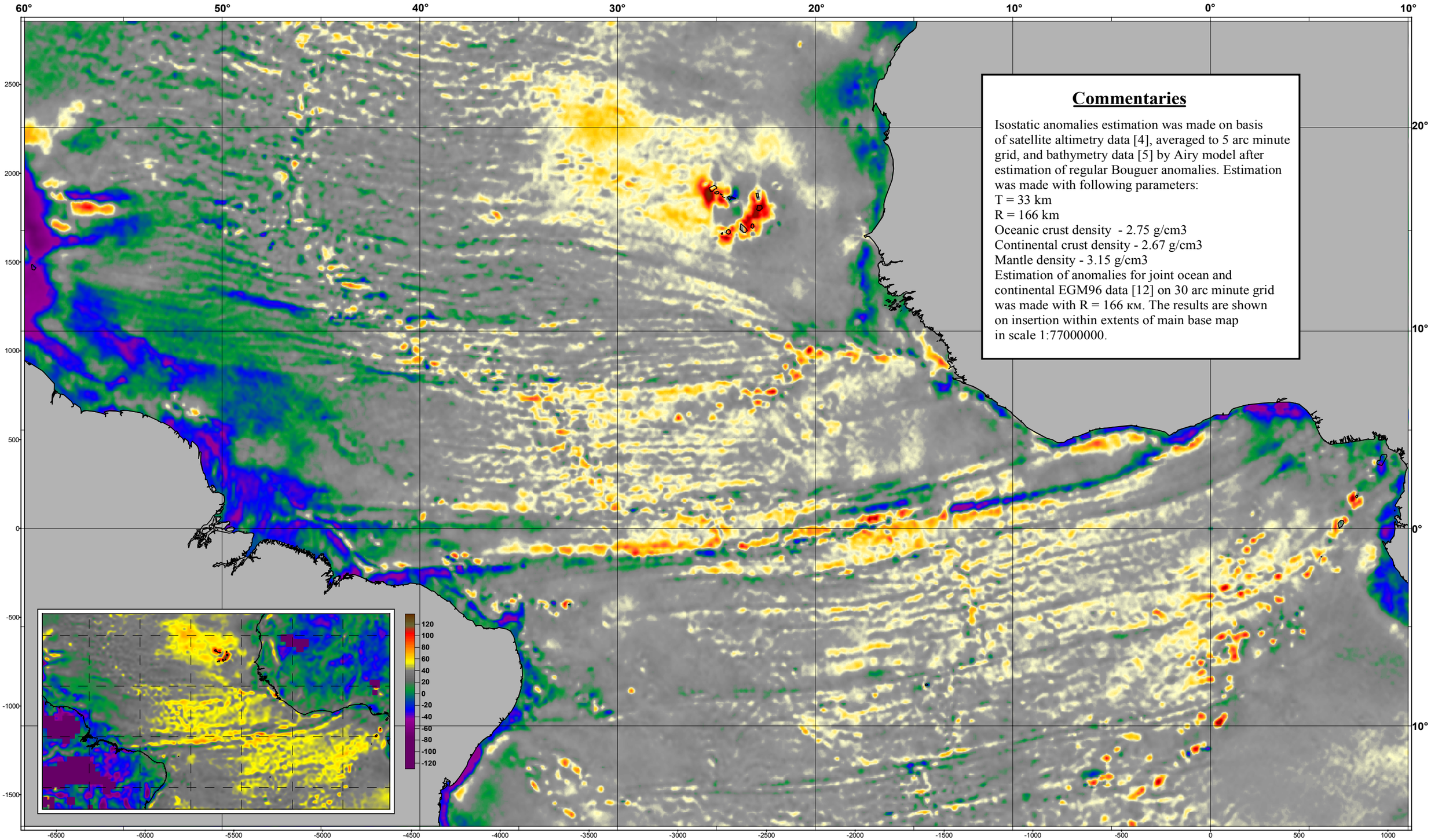
Isostatic Anomalies Estimated from Altimetry and Bathymetry Data on 5'x5' grid by Airy model

ГЕОЛОГИЧЕСКИЙ ИНСТИТУТ РОССИЙСКАЯ АКАДЕМИЯ НАУК

HARD NUT
Laboratory of Geomorphology and Ocean Floor Tectonics
KREPKIY ORESHEK



Commentaries

Isostatic anomalies estimation was made on basis of satellite altimetry data [4], averaged to 5 arc minute grid, and bathymetry data [5] by Airy model after estimation of regular Bouguer anomalies. Estimation was made with following parameters:
T = 33 km
R = 166 km
Oceanic crust density - 2.75 g/cm3
Continental crust density - 2.67 g/cm3
Mantle density - 3.15 g/cm3
Estimation of anomalies for joint ocean and continental EGM96 data [12] on 30 arc minute grid was made with R = 166 км. The results are shown on insertion within extents of main base map in scale 1:77000000.

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km
0 200 400 600 800
Scale 1:20000000 by Equator

Isostatic Anomalies Scale (mGal)
-180 -160 -140 -120 -100 -80 -60 -40 -20 0 20 40 60 80 100 120 140 160 180 200 220