

## **B. ACTIVITIES RELATED TO DATA SYNTESIS**

### **2.2. ANALYSIS AND CRITICAL DISCUSSION OF THE CURRENT MODELS ASSOCIATED TO GEODYNAMIC EVOLUTION OF THE EAST CARPATHIANS IN CONNEXION WITH MIOCENE-QUATERNARY MAGMATIC ACTIVITY (II).**

#### **2.2.1. GRAVITY ECHOES OF THE CURRENT GEOLOGICAL CONCEPT**

In order to analyse the echoes of the current geological models of the study area within gravity data, a comparative view between the geological concept and various models of the Bouguer anomaly and its derivatives has been performed.

In the followings, the above-mentioned analysis is distinctly presented for the southern part of the INSTEC perimeter, the so-called INSTEC-SUD area, with some detailed images provided for CIOMADUL and PERSANI sub-perimeters.

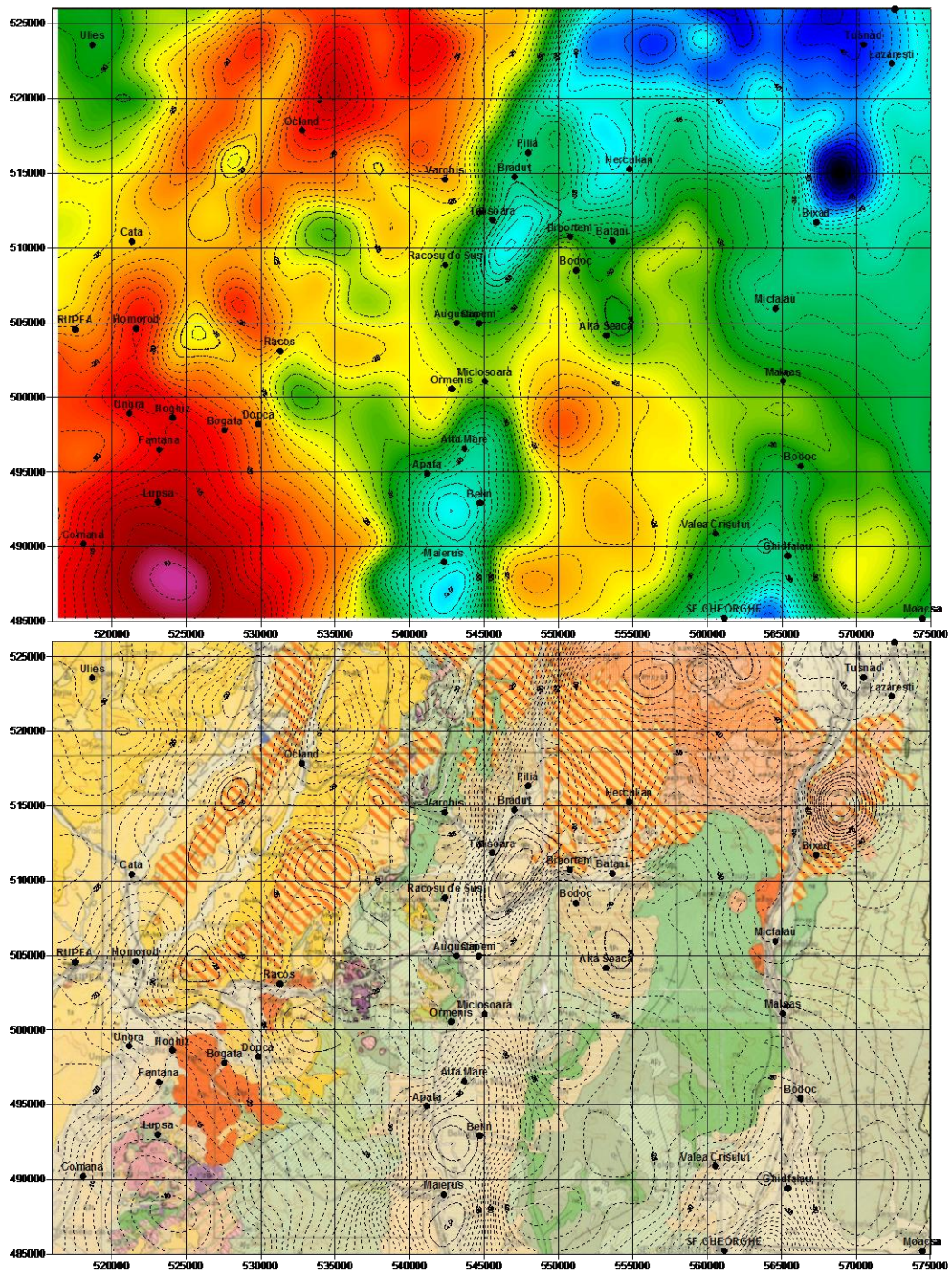


Fig. 14 - The geological model, as provided by the National Geological Map of the Romania, scale 1:200.000, and the Bouguer anomaly for the INSTEC-SUD perimeter



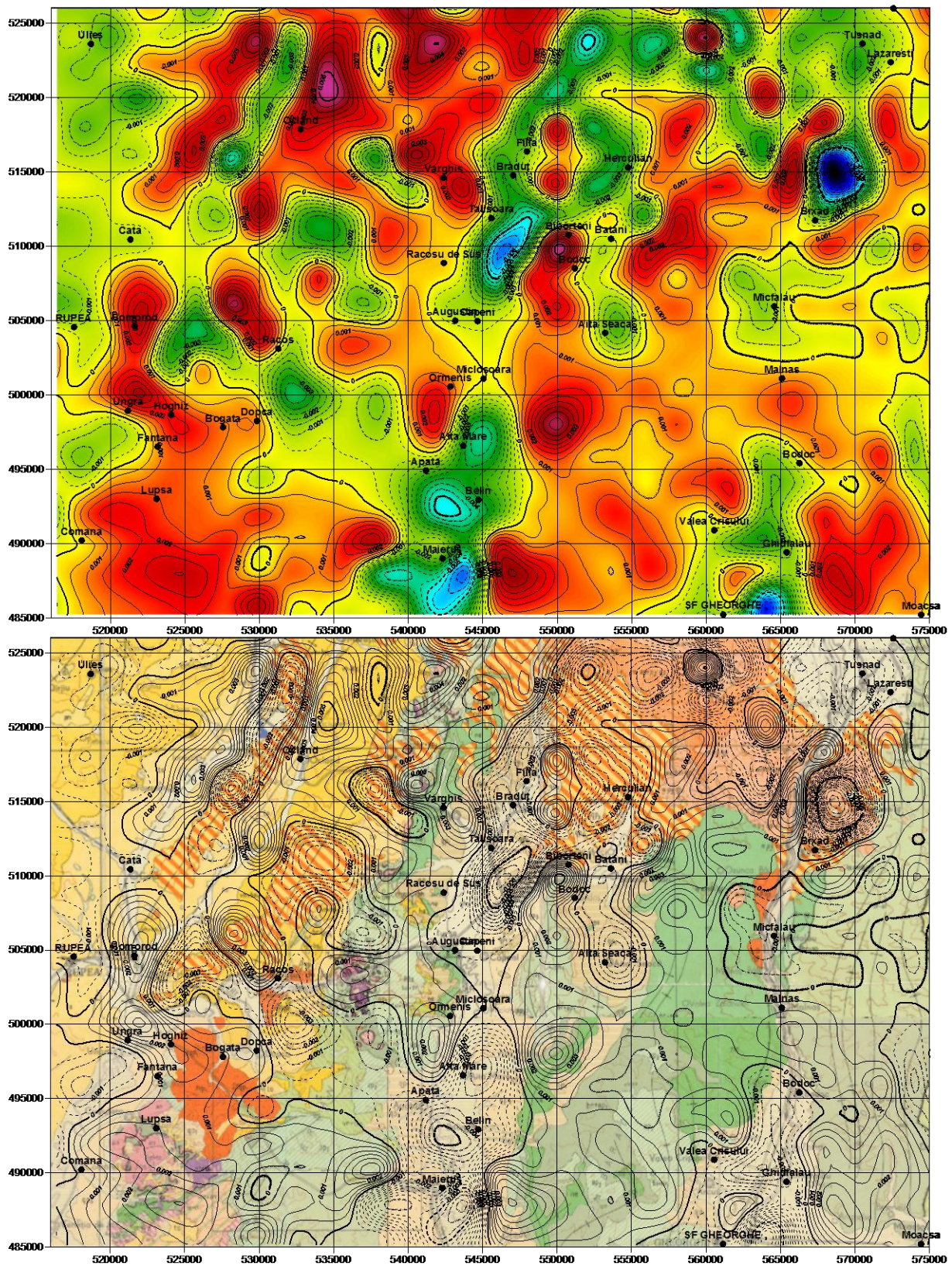


Fig. 15 - The geological model, as provided by the National Geological Map of the Romania, scale 1:200.000, and the vertical gradient of the Bouguer anomaly for the INSTEC-SUD perimeter



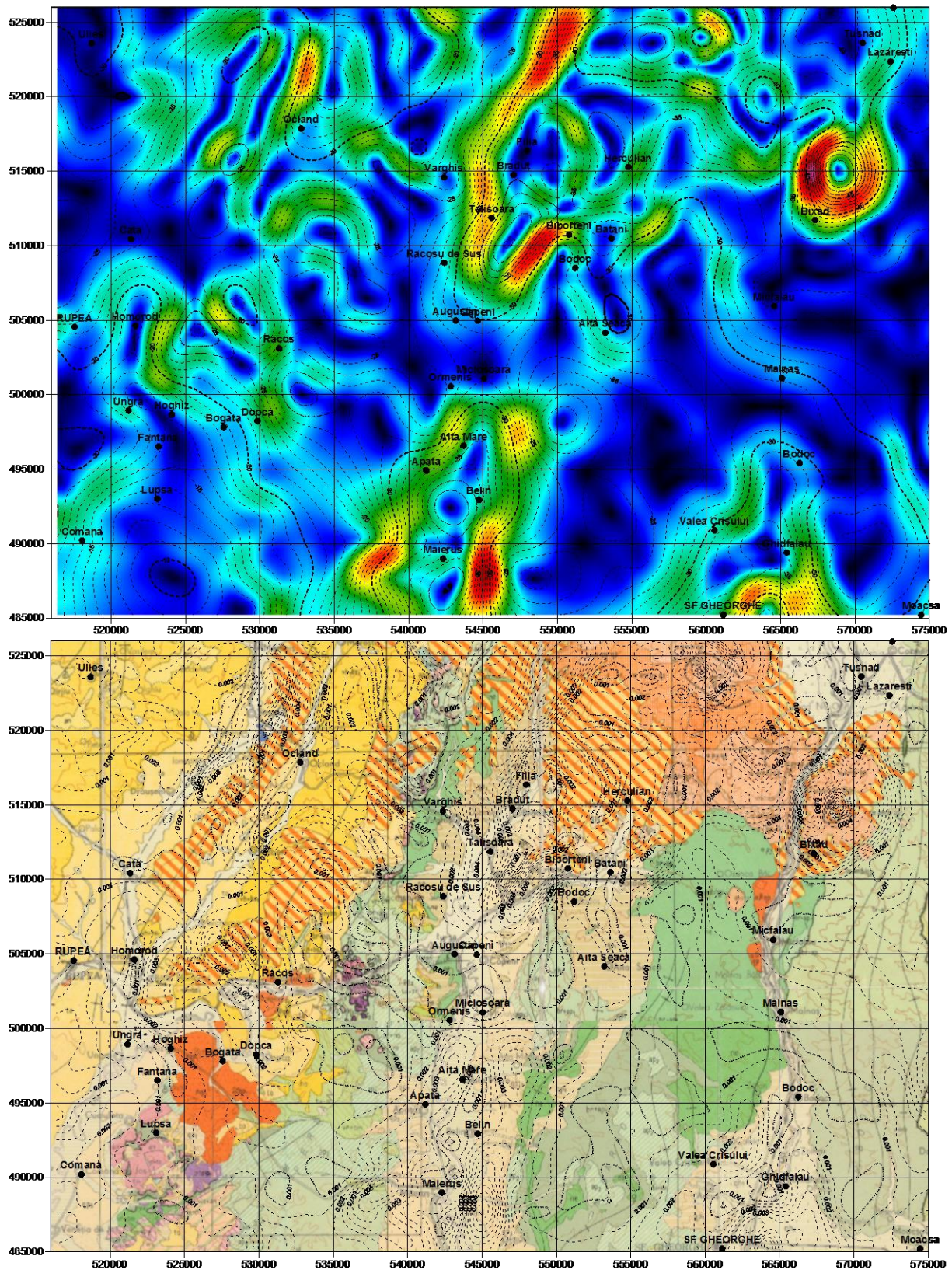


Fig. 16 - The geological model, as provided by the National Geological Map of the Romania, scale 1:200,000, and the horizontal gradient of the Bouguer anomaly for the INSTEC-SUD perimeter