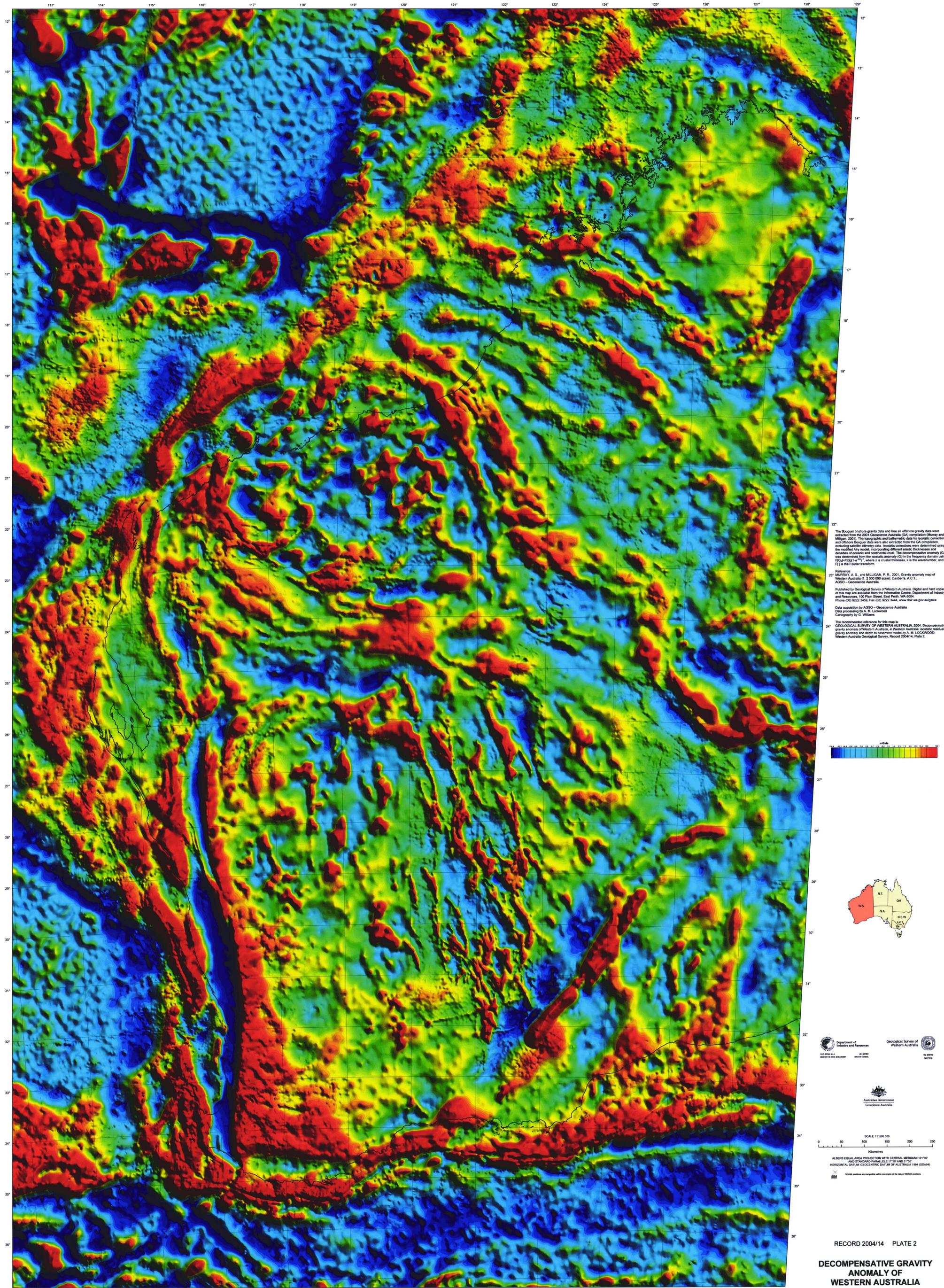


DECOMPENSATIVE GRAVITY ANOMALY OF WESTERN AUSTRALIA



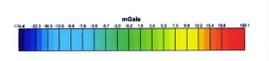
The Bouguer onshore gravity data and free air offshore gravity data were extracted from the 2001 Geoscience Australia (GA) compilation (Murray and Millgan, 2001). The topographic and bathymetric data for isotopic correction and offshore Bouguer data were also extracted from the GA compilation, excluding satellite altimetry data. Isostatic corrections were determined using the modified Airy model, incorporating different elastic thicknesses and densities of oceanic and continental crust. The decompensative anomaly (Δg) was determined from the isostatic anomaly (Δg_s) in the frequency domain using $\Delta g = \Delta g_s [1 - e^{-kz}]^{-1}$, where z is crustal thickness, k is the wavenumber, and e is the Fourier transform.

Reference:
 23 MURRAY, A. S. and MILLIGAN, P. R., 2001. Gravity anomaly map of Western Australia (1:2 500 000 scale). Canberra, A.C.T.: AGSO - Geoscience Australia.

Published by Geological Survey of Western Australia. Digital and hard copies of this map are available from the Information Centre, Department of Industry and Resources, 100 Plain Street, East Perth, WA 6004. Phone (08) 9222 3459, Fax (08) 9222 3444, www.dor.wa.gov.au/giswgs

Data acquisition by AGSO - Geoscience Australia
 Data processing by A. M. Lockwood
 Cartography by G. Williams

24 The recommended reference for this map is:
 GEOLOGICAL SURVEY OF WESTERN AUSTRALIA, 2004. Decompensative gravity anomaly of Western Australia, in Western Australia, isostatic residual gravity anomaly and depth to basement model by A. M. LOCKWOOD. Western Australia Geological Survey, Record 2004/14, Plate 2.



SCALE 1:2 500 000
 Kilometres

ALBERS EQUAL AREA PROJECTION WITH CENTRAL MERIDIAN 121°10'
 HORIZONTAL DATUM: GEODESIC DATUM OF AUSTRALIA 1984 (GDA84)

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