U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

Maps Showing Residual-Magnetic Fields, Isostatic-Residual-Gravity Fields, and Generalized Geology of the Southern San Francisco Bay and Loma Prieta Regions, California

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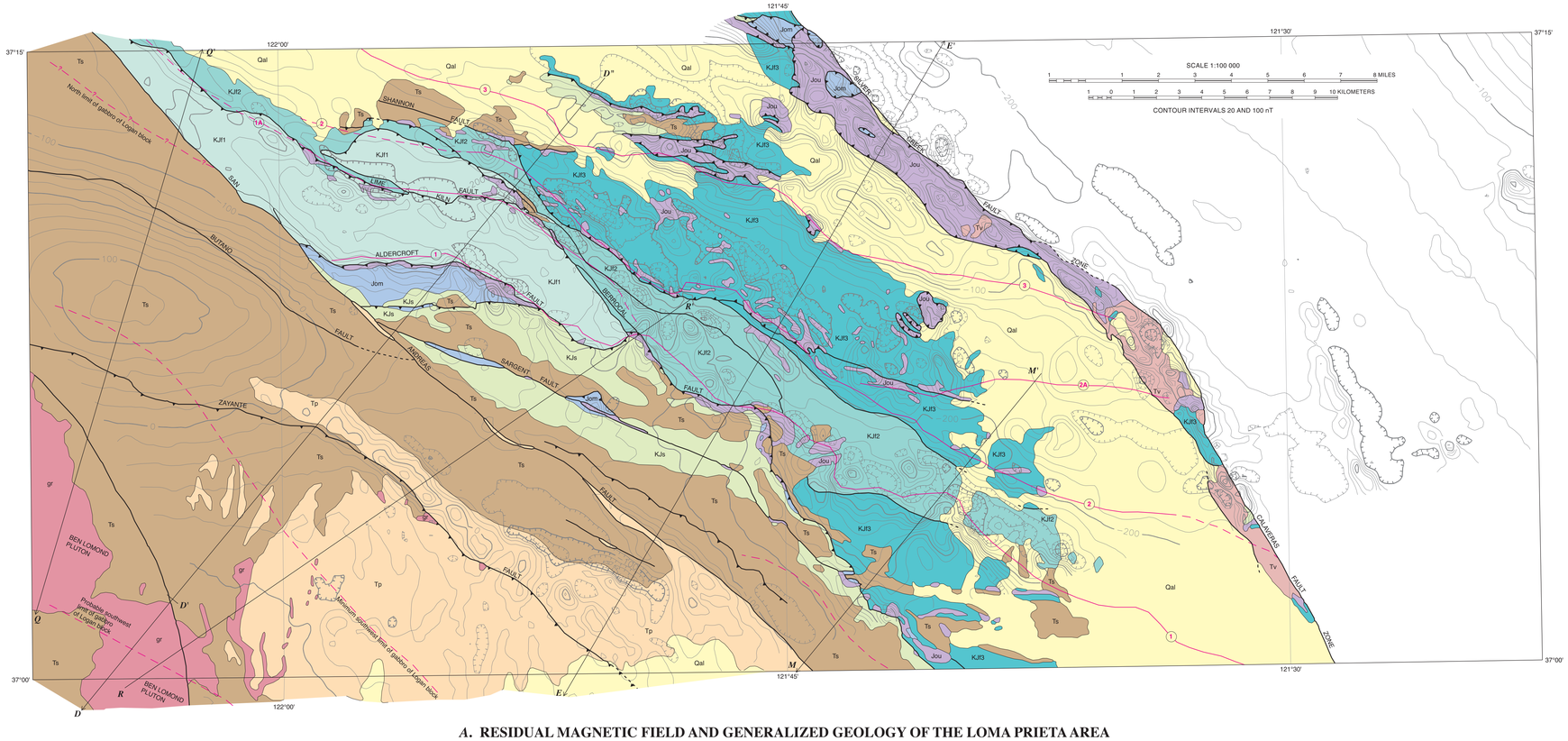
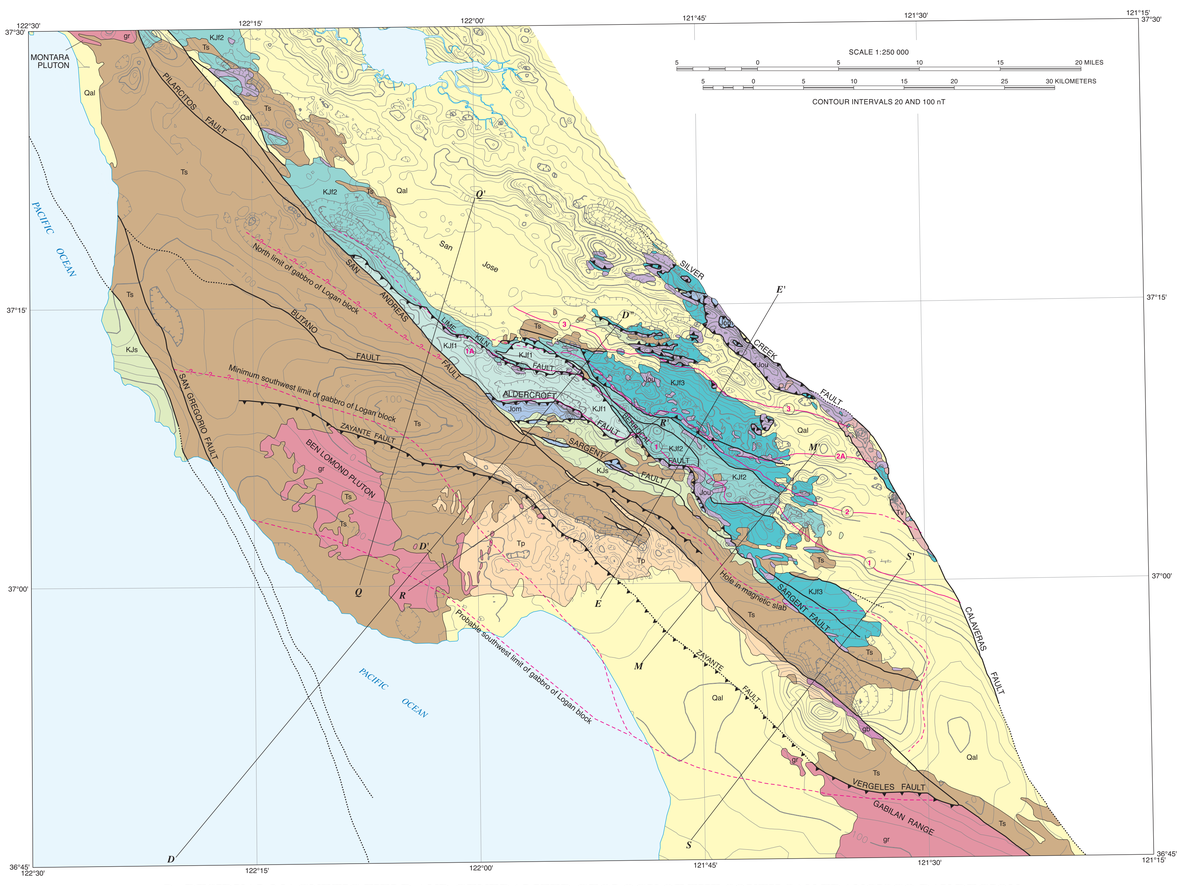
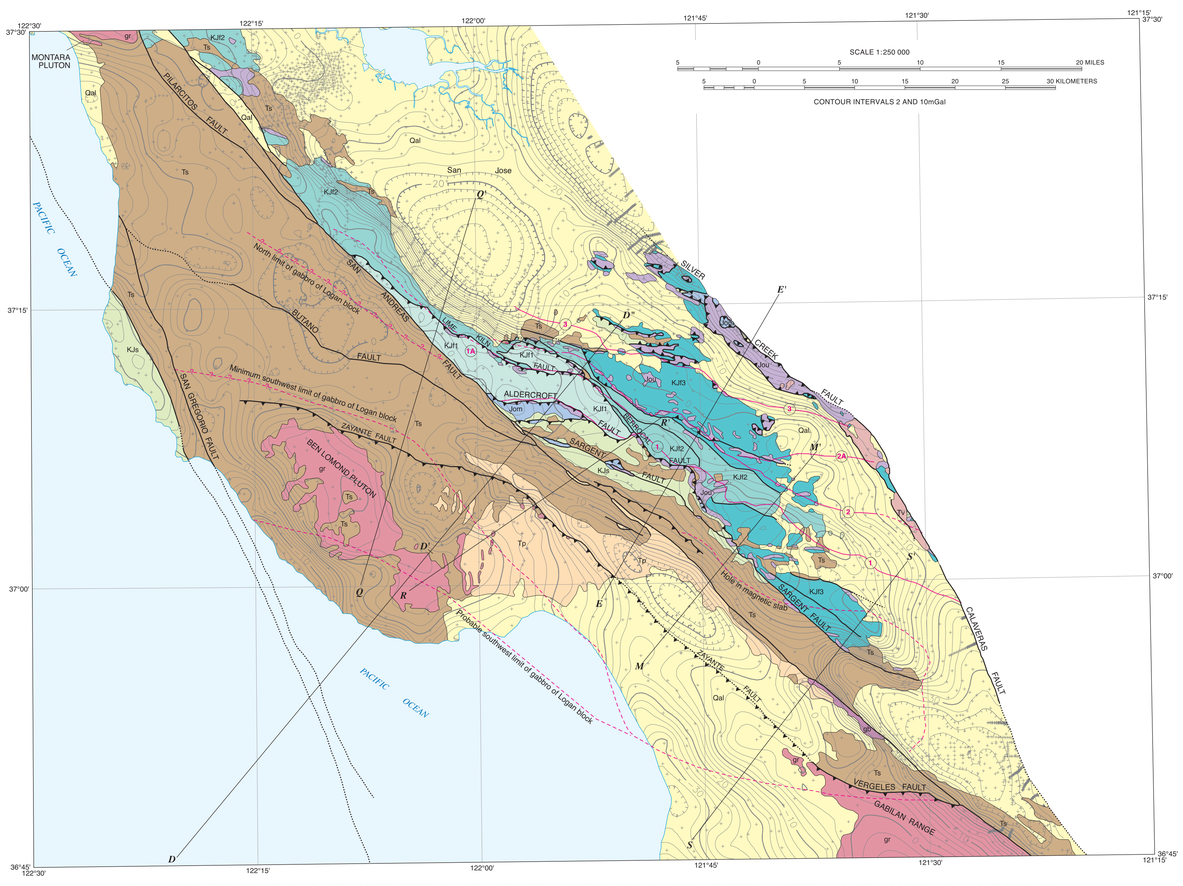
2004



A. RESIDUAL MAGNETIC FIELD AND GENERALIZED GEOLOGY OF THE LOMA PRIETA AREA



B. RESIDUAL MAGNETIC FIELD AND GENERALIZED GEOLOGY OF THE SOUTH SAN FRANCISCO BAY REGION



C. ISOSTATIC RESIDUAL GRAVITY FIELD AND GENERALIZED GEOLOGY OF THE SOUTH SAN FRANCISCO BAY REGION

EXPLANATION

(Sources described in text)

- Qal — **Alluvial deposits (Quaternary)**
- Tv — **Volcanic rocks (Tertiary)**
- Tp — **Purisima Formation (Pliocene)**—Marine
- Ts — **Sedimentary rocks (Tertiary)**
- KJs — **Sedimentary rocks (Cretaceous and Jurassic)**—Lower part of Great Valley sequence

Coast Range Ophiolite (Jurassic)

- Jom — **Mafic rocks**
- Jou — **Ultramafic rocks and serpentinite**

Franciscan Complex (Cretaceous and Jurassic)

- KJf1 — **Belt 1**—Bald Mountain-El Sombroso Terrane
- KJf2 — **Belt 2**—Permanente terrane
- KJf3 — **Belt 3**—Unspecified terranes; includes Central Belt of Blake and others (1984)

Salinia Terrane

- gr — **Granitic rocks and older metamorphic rocks**
- gb — **Gabbro of Logan block**

Contact

Fault—Dotted where location concealed or uncertain

Thrust fault—Teeth on upper plate. Dotted where location concealed or uncertain

Gravity field (map *C*)—Contour of equal isostatic residual gravity; hachures indicate closed areas of lower values. Contour intervals 2 and 10 mGal

Location of gravity observation (map *C*)

Magnetic boundary—Boundary of magnetically defined, major crustal block; dashed where approximately located; queried where uncertain. Identified by number in discussion

Magnetic field (map *B*)—Contour of equal magnetic intensity (in nanotesla); hachures indicate closed areas of lower values. Contour intervals 20 and 100 nanotesla

Location of profile for calculated gravity or magnetic model

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