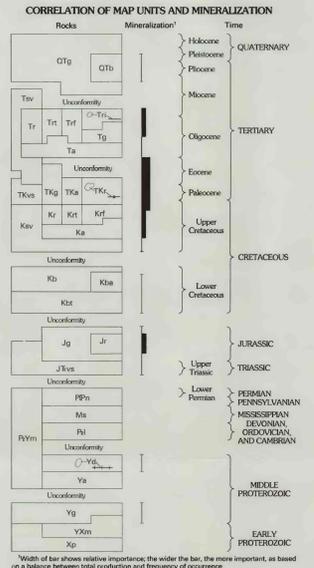


Dragon Forest unit

Date from U.S. Geological Survey 1:250,000
Douglas, 1959 (revised 1970); Nye, 1956 (revised 1960);
Silver City, 1954 (revised 1970); Tucson, 1956 (revised 1960)
Transverse Mercator projection



DESCRIPTION OF MAP UNITS
(All units may not appear on all maps)

QTg Gravel, sand and conglomerate (Holocene to Miocene)—Alluvial filling intermontane basins, on pediments, in alluvial aprons and stream terraces, and along water courses.

QTb Basalt (Pleistocene to Miocene)—Lava flows and cinder deposits.

Tsv Sedimentary and volcanic rocks, undivided (Miocene to Eocene)—Rhyolitic to andesitic lava and tuff, and some interbedded conglomerate, sandstone, and shale.

Tr Rhyolitic rocks (Miocene and Oligocene)—Includes lava flows, tuffs, and tuffaceous sandstone.

Trf Rhyolitic tuffs (Miocene and Oligocene)—Aerial tuff, ash-fall tuff, tuff breccia, welded tuff, and some sedimentary rocks.

Trl Rhyolitic lava flows (Miocene and Oligocene)—May include some intrusive bodies.

C-Tv Intrusive rocks (Miocene and Oligocene)

Tg Rhyolite (Miocene and Oligocene)—Dikes and plugs.

Tk Granite (Oligocene)—Stocks.

TKg Andesitic rocks (Oligocene)—Lava flows, breccia deposits, and interbedded sedimentary rocks.

TKv Intrusive rocks (Eocene to Late Cretaceous)—Mainly Eocene to Late Cretaceous granite, monzonite, granodiorite, and diorite; some Oligocene to Late Cretaceous porphyritic (two-mica and garnet-bearing) granite. Includes Copper Creek Granodiorite.

TKvs Volcanic and sedimentary rocks (Eocene to Upper Cretaceous)—Andesitic lava flows and breccia sheets, rhyolitic tuff and welded tuff, and volcanoclastic sedimentary rocks.

TKa Andesite (Eocene to Late Cretaceous)—Plugs, dikes, and stocks.

TKv Rhyolite (Eocene to Late Cretaceous)—Plugs and dikes.

Kr Sedimentary and volcanic rocks, undivided (Upper Cretaceous)—Volcanoclastic conglomerate, sandstone, limestone, shale, and some andesitic and rhyolitic tuff.

Krf Rhyolite (Upper Cretaceous)—Lava flows, tuffs, and interbedded conglomerate, sandstone, and shale.

Krf Rhyolite tuff (Upper Cretaceous)—Includes aerial and ash-fall tuffs, tuff breccia, welded tuff, and sedimentary rocks.

Krf Rhyolite lava flows (Upper Cretaceous)—Includes some tuff and sedimentary rocks.

Ka Andesite (Upper Cretaceous)—Lava flows, breccia sheets, and interbedded conglomerate and sandstone.

Kb Balcon Group (Lower Cretaceous)—Mainly gray shale and siltstone, and some sandstone, conglomerate, and limestone.

Kba Basaltic andesite and andesite (Lower Cretaceous)—Lava flows, cinder deposits, and some dikes, sills, and plugs.

Kzb Basaltic and Temporal Formations, undivided (Lower Cretaceous)—Andesitic to rhyolitic rocks, conglomerate, and sandstone.

Jg Intrusive rocks (Jurassic)

Jr Granite stocks

Jvs Rhyolite plugs

Jvs Volcanic and sedimentary rocks (Jurassic to Upper Triassic)—Rhyolitic welded tuff and lava flows, andesitic lava flows, eolian sandstone, and redbeds. Includes Walnut Gap Formation, Catalina Hills Volcanics, and Garden Canyon and Mount Wilson Formations.

Rvm Metamorphic rocks (Paleozoic or Middle Proterozoic)—Metasediments, hornfels, and calcareous carbonate rocks.

PPb Naco Group (Lower Permian and Pennsylvanian)—Mainly limestone and dolomite; some siltstone, sandstone, and mudstone.

Ms Sedimentary rocks (Mississippian)—Generally only Escabrosa Limestone to the east unit also includes Paradise Formation, mostly shale.

Pi Lower Paleozoic formations, undivided (Upper Devonian to Middle Cambrian)—Mainly limestone and dolomite; some sandstone, shale, and conglomerate. Includes Pinal Shale, Portal, Salsabito, Martin, El Paso, and Abrego Formations, Coronado Sandstone, and Bolso Quartzite.

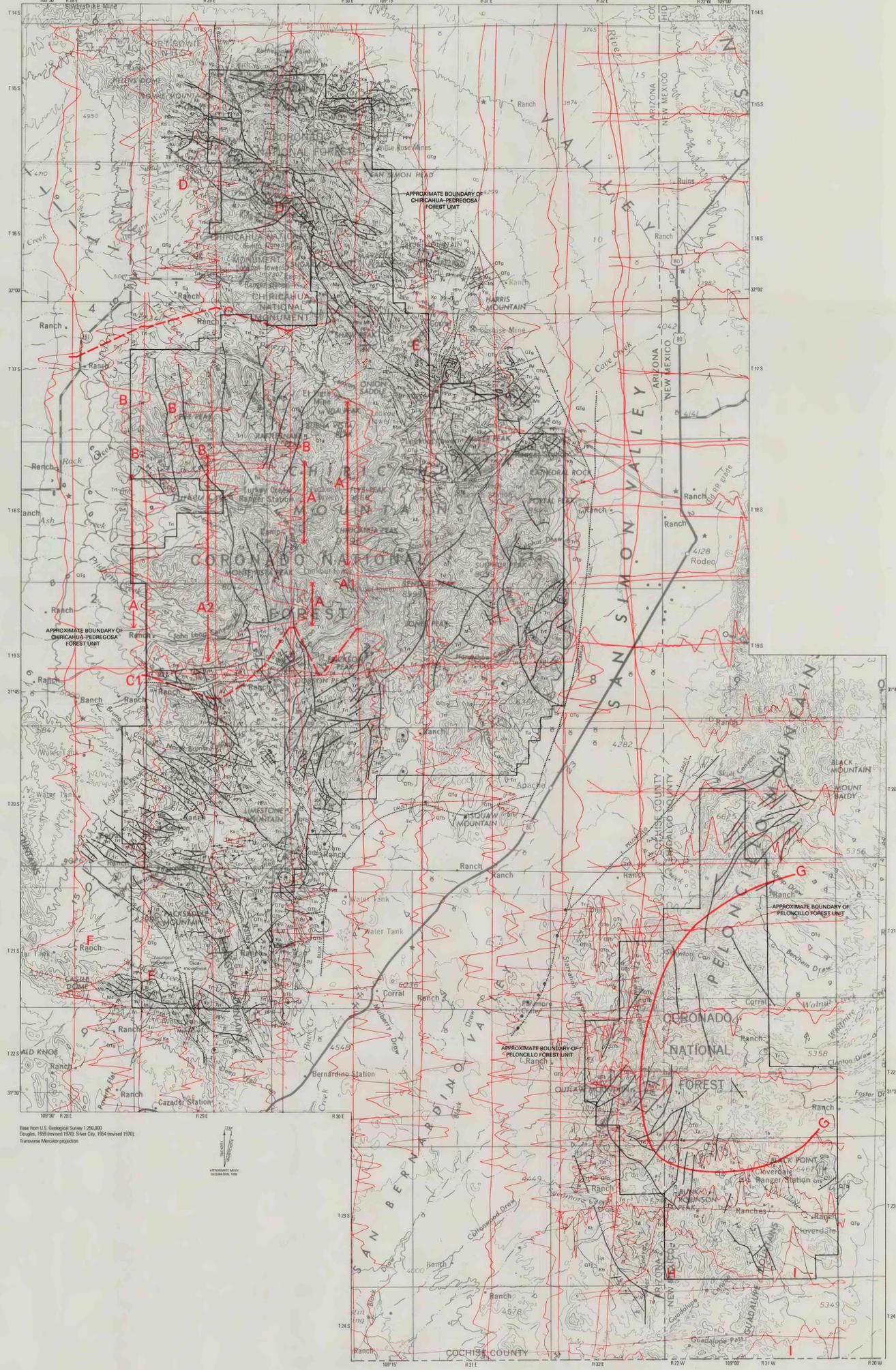
C-Ya Diabase (Middle Proterozoic)—Includes some metadiorite; in sills, dikes, and plugs, line shows more acidic rock.

Ya Apache Group (Middle Proterozoic)—Sandstone, shale, argillite, some conglomerate, and possibly some limestone.

Yb Intrusive rocks (Middle Proterozoic)—Granite, granodiorite, and some andesite, granite, and terrigenous.

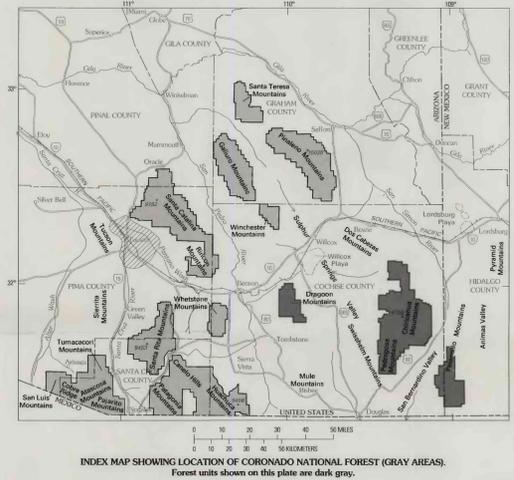
Yxm Granite rocks (Middle and Early Proterozoic)—Metamorphosed granite and older schist or gneiss.

Yp Pinal Schist (Early Proterozoic)—Schist, phyllite, metapsammite, metapsandstone, and metagneiss.



Peloncillo and Chiricahua-Pedregosa Forest units

Date from U.S. Geological Survey 1:250,000
Douglas, 1959 (revised 1970); Silver City, 1954 (revised 1970);
Transverse Mercator projection



INDEX MAP SHOWING LOCATION OF CORONADO NATIONAL FOREST (GRAY AREAS).
Forest units shown on this plate are dark gray.

EXPLANATION OF AEROMAGNETIC DATA

Residual aeromagnetic field plotted as deflection off flight path—Base value -300 nT in Dragon Forest unit, -250 nT elsewhere; scale factor 250 nT/minute of latitude or longitude.

Aeromagnetic anomaly discussed in chapter D, this volume.

Depth estimate (km)—Elevation difference between flight line and magnetic rock; estimate derived from the horizontal extent of steepest-gradient method.

INTRODUCTION

Residual NURE aeromagnetic field data (observed field minus the International Geomagnetic Reference Field evaluated at survey points on the survey date minus base value) plotted as a deflection off the flight path. For north-south flight lines, deflections right and left of flight lines are positive and negative anomalies, respectively. For east-west lines, deflections above (north) and below (south) of flight lines are positive and negative anomalies, respectively. A value near the mean anomaly for the data set was chosen as the base value, that is, the anomaly value that would plot on the flight path, and the scale factor was usually chosen to be about twice the standard deviation of the data. The scale factor is the number of anomaly units (nT, nanotesla) per minute of latitude or longitude on the map. Scale factors were chosen such that plotted profiles are easily read and display as much detail in the data as possible. For the 5-km-spaced NURE data and the 1:126,720 scale maps, a scale factor equivalent to two standard deviations proved satisfactory.

- Contact—Dotted where concealed, queried where uncertain
- Fault—Showing dip; dotted where concealed or intruded, queried where uncertain. Where scale line becomes dotted line within a map unit, that unit is a composite of several formations, of which a younger one conceals faulting in an older one.
- Normal fault—Ball and bar on downthrown side; dotted where concealed, queried where uncertain
- Thrust fault—Sawtooth on upper plate
- Glide fault—Open sawtooth on glide plate
- Complex fault—Earlier thrust fault on which later glide (gravity) faulting took place
- Strike-slip fault—Arrow-couple shows relative movement; queried where uncertain
- Oblique-slip fault—Composite of strike-slip and normal movement likely, but either type of movement may have occurred without the other
- Fold axis—Dotted where concealed; arrow shows direction of plunge
- Anticline
- Anticline in foliation
- Overturned anticline—Side of closure of arrow ends is side of fold crest relative to fold axis
- Syncline
- Syncline in foliation
- Overturned syncline—Side of closure of arrow ends is side of fold trough relative to fold axis
- Strike and dip of beds
- Horizontal
- Inclined
- Vertical
- Overturned
- Strike and dip of foliation
- Inclined
- Vertical
- Cinder cone—Queried where uncertain

NURE AEROMAGNETIC-ANOMALY PROFILES FOR THE SOUTHEASTERN PART OF CORONADO NATIONAL FOREST AND ADJACENT AREAS, SOUTHEASTERN ARIZONA AND SOUTHWESTERN NEW MEXICO

Compiled by
Mark E. Gettings
1996