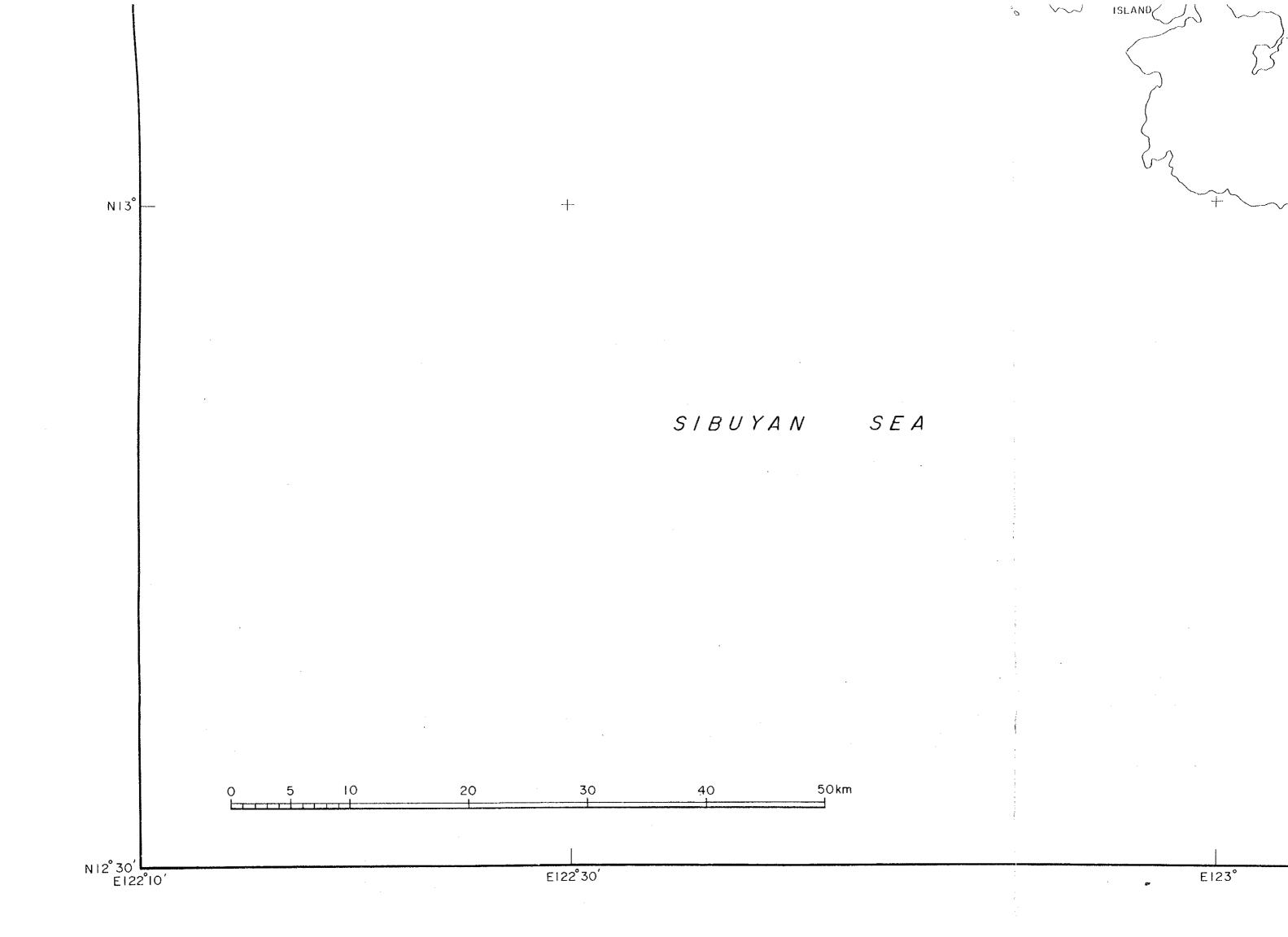


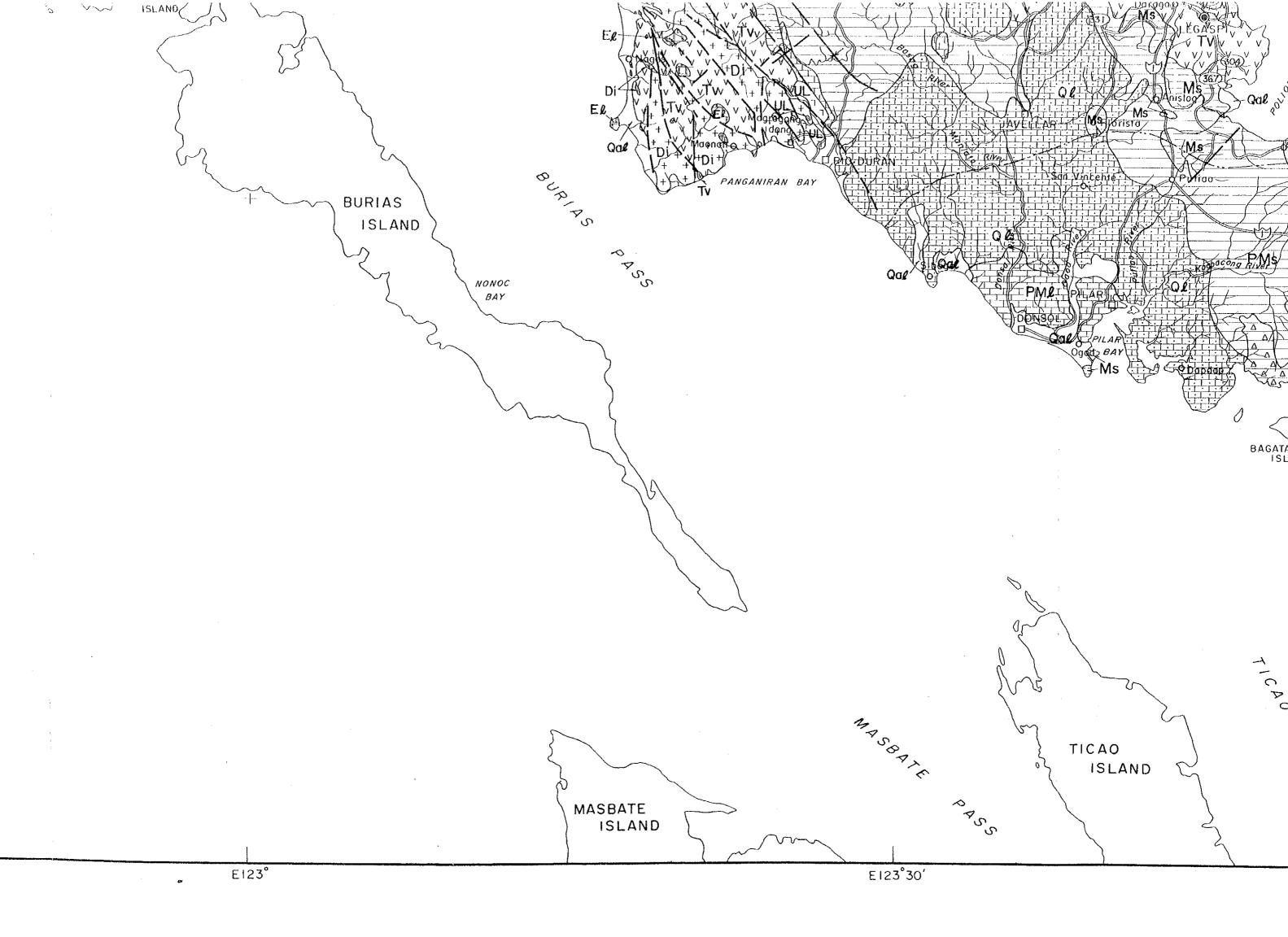
First and second class road  $\bigcirc$ Route markers : National Route markers : Provincial (310)N13°30′ EXPLAWTION INTRUSIVE AND PSEUDO - STRATIFLED ROCKS STRATIFIED ROCK STRATIGRAPHY Terrace Grovel and Alluvial Deposits Generally Confined on River Floodplains. **≻** œ y y Quaternary widespread pyroclastic
Qvp agglomerate, volcanic breccia, tuff, pumice Quoternary andesitic and dacitic Q volcanic deposit, occurring moinly ⊴ ৼ y y and volcanic debris deposed cround △ os lovo flows in volconic centers.  $\alpha$ the Quaternary volcanic cones and ЦJ Quaternary to Late Pliocene inestone generally coralline.
Associated within layers of pyroclastic materials Pleistocene to Pliocene laminated Pls ashy shales with interbeds of cinder O Namignday S Early Phiocene to Late Miocene widely PMs exposed and extensive conglomerate, sandstone, calcareous siltstone and limestone BATAN ISLAND
PMS Boton Early Pliocene to Late Miocene

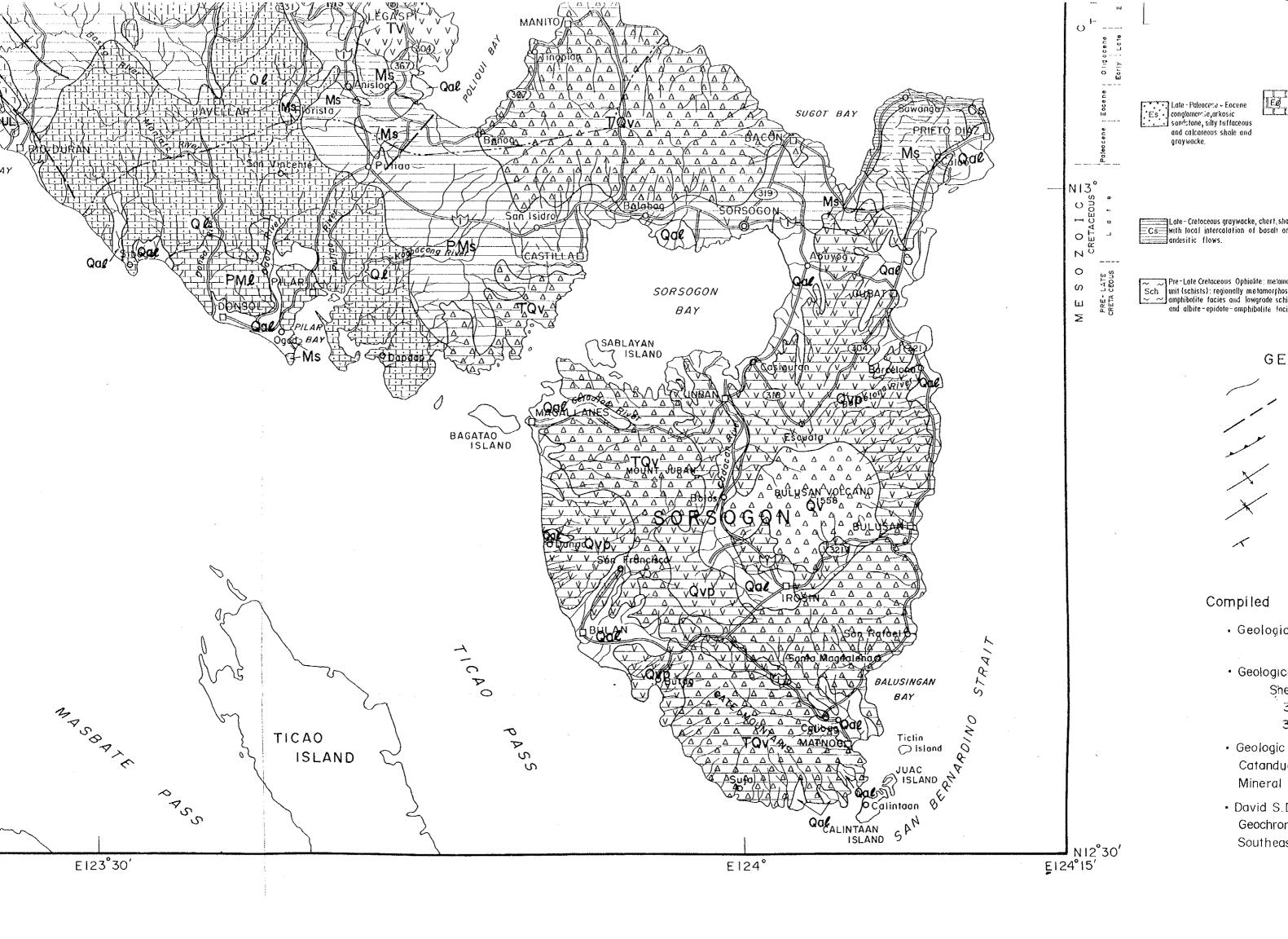
PMe\_ Corolline, sandy and marly lin astone, partly crystalline. 0 J Memongo J TO TRAPUTA PUTSLAND ~ + Late Miocene Diorite occures as stocks RAPU RAPUSCH Lines dikes and sills of quartz diorite and dacite porphyry associated with andesite and ALBAY GULF Miccene clastics formation composed of conglomerate, sands tone, calcareous Tertiary andesite flows, breccias. shale, limestone, volcanic wackes, tuffs with interbedded conglomerate,  $\alpha$ tuff-breccias. ш O TEarly Miocene to Late Eocene Diorite Occures as stocks and dikes of granodiorite, hornblende and quartz diorite, andesite porphyry. Eocene limestone, locally recrystallized 🗍 Late - Paleocene ~ Eocene and fractured. conglomerate, arkosic SUGOT BAY sandstone, silty tuffaceous and calcoreous shale and graywacke. Z O I C N Late-Cretoceous graywacke, chert, shale sequence Late-Cretaceous cherly 2 Cs= with local interculation of basalt and Late - Cretoceous metavolcanics CR and oolitic limostone. andesilic flows. 0 Pre-Late Cretaceous Ophiolite: melamorphosed rock ~≈ Pre-Late Cretaceous Ophiolite: Pre-Late Cretacious Opiolite: Sch unit (schists); regionally metamorphosed high grade schist of S .PLCs. low grade metamorphosed volconics ultramatic complex Interlayered serpentinized SORSOGON  $\sim$  amphibolite facies and lowgrade schist of the green schist 🕽 peridotite, dunite, pyroxenite, gabbro, epidiorite, ш and albite-epidote-amphibolite lacies and quartzite. chromite. BAY Σ SABLAYAN 7 ISLAND

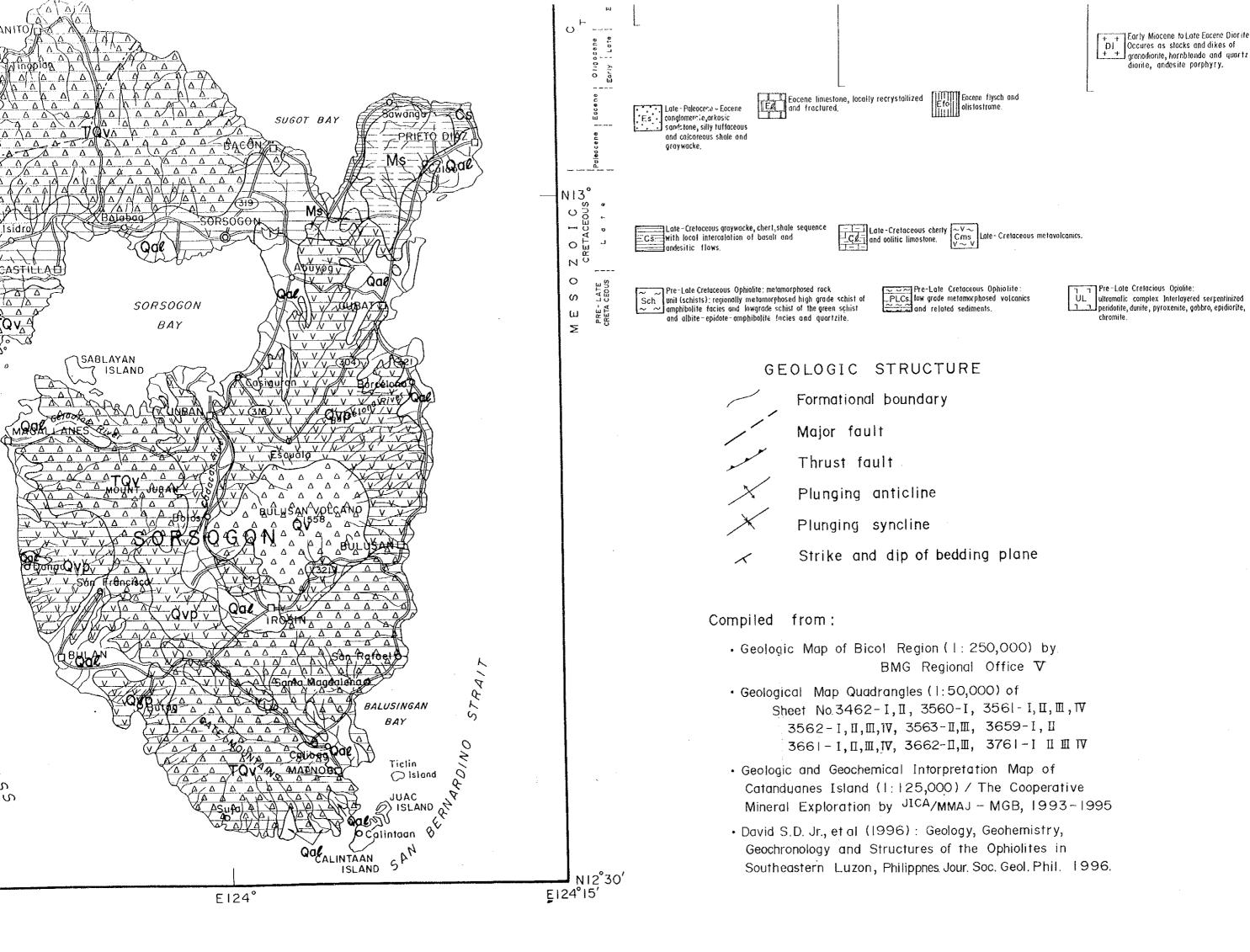
THOURIGHT DOMINGOLY

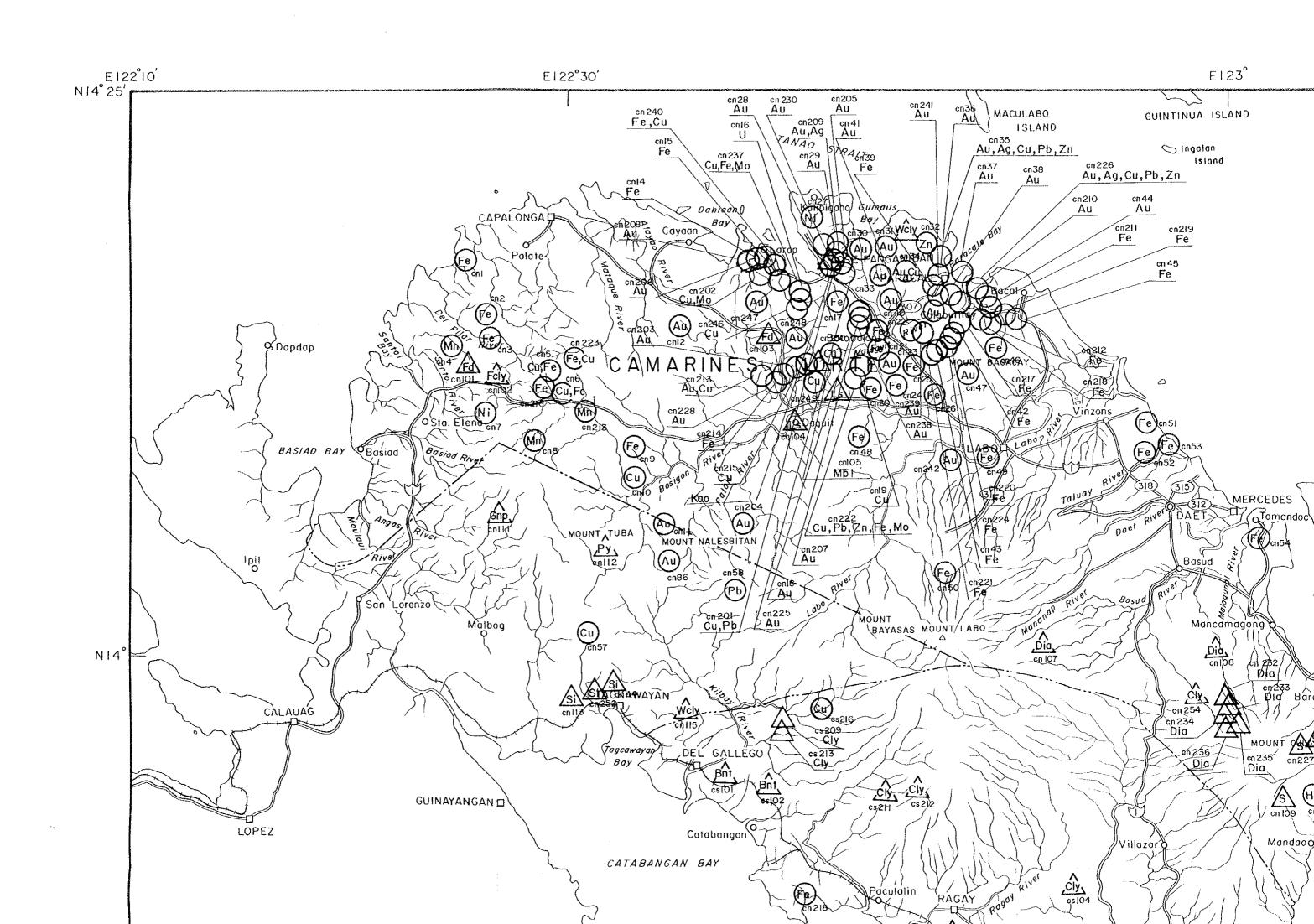
GEOLOGIC STRUCTURE

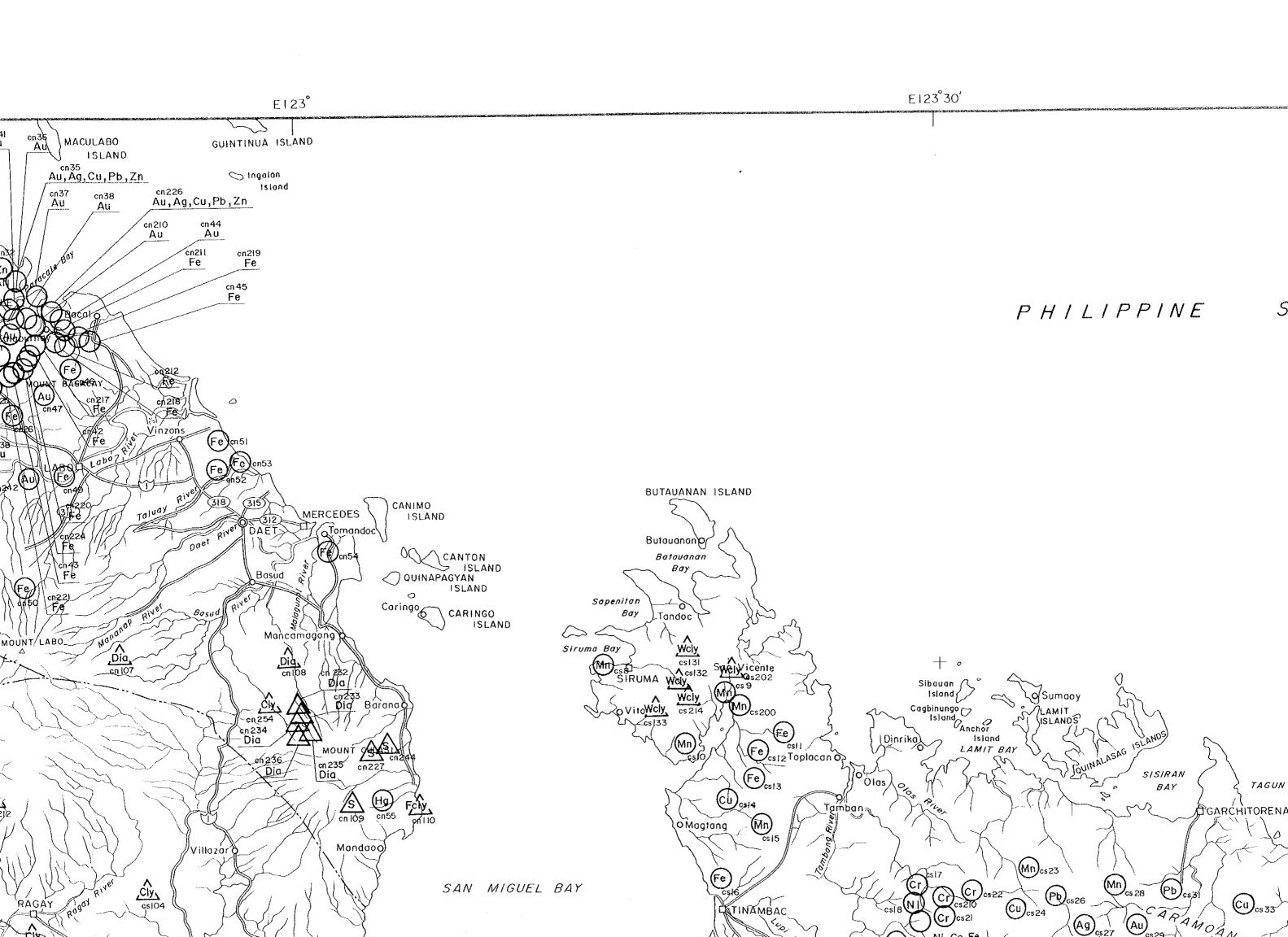


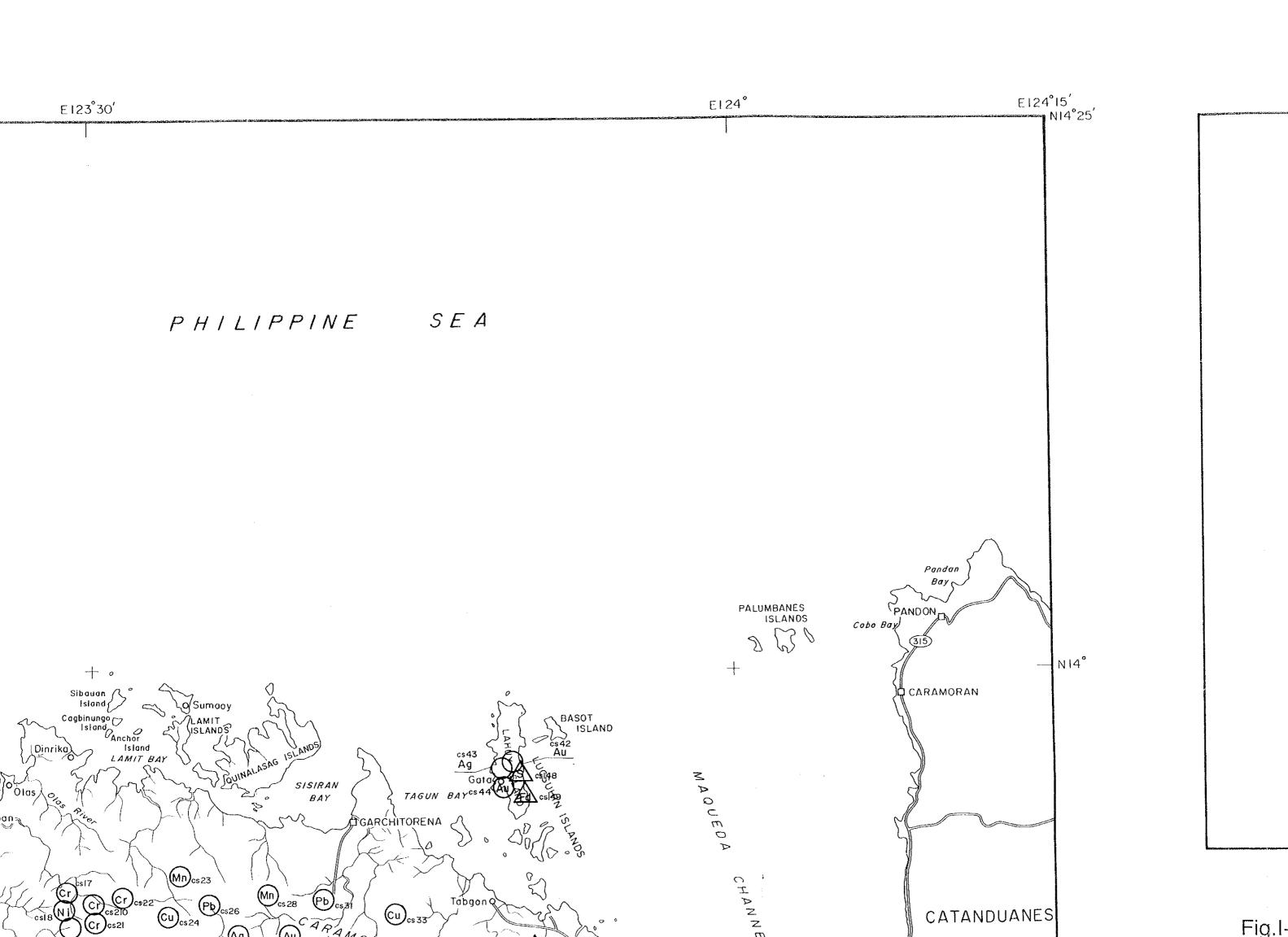


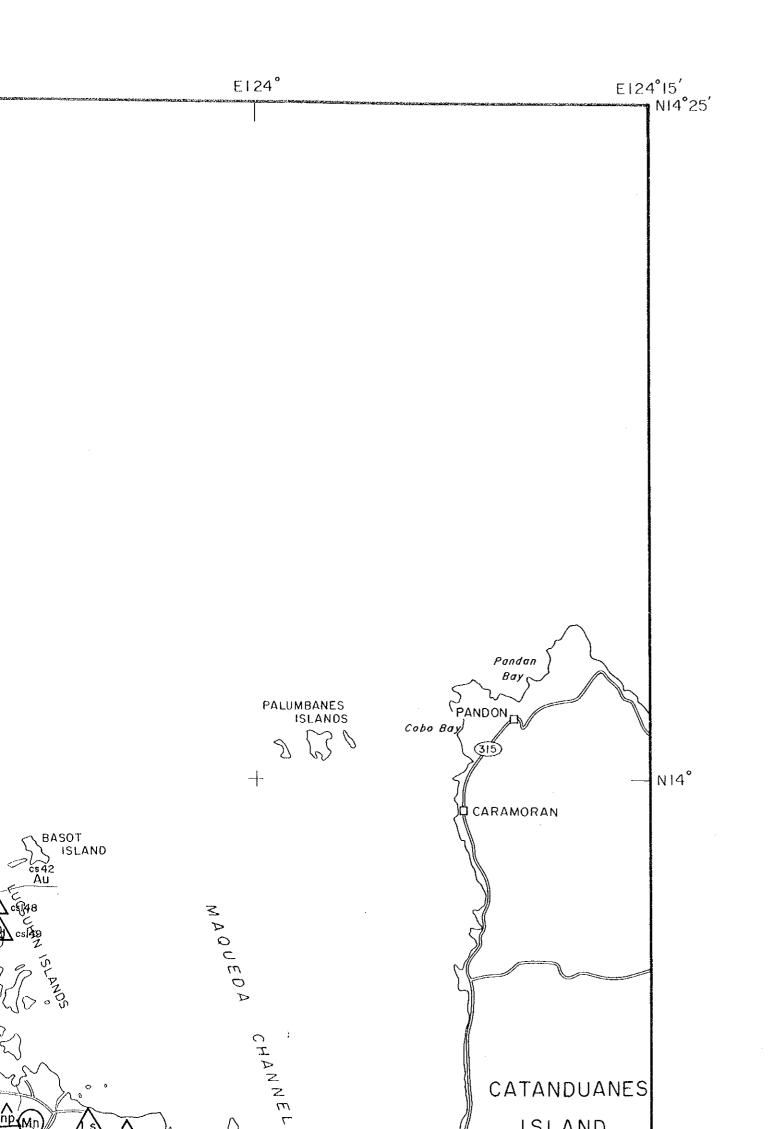












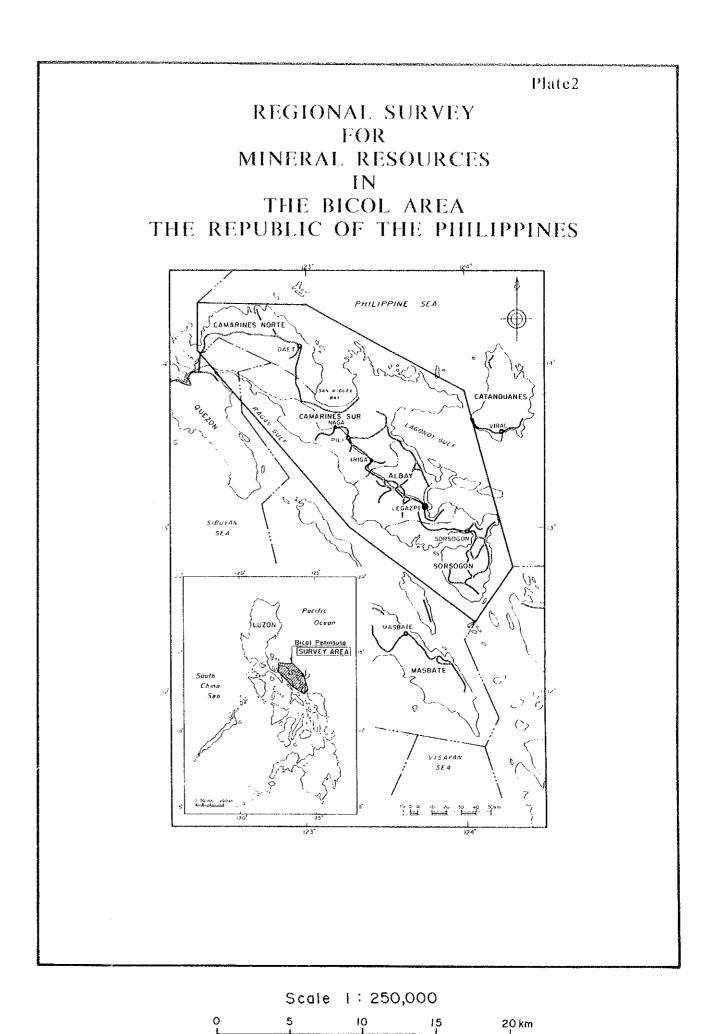
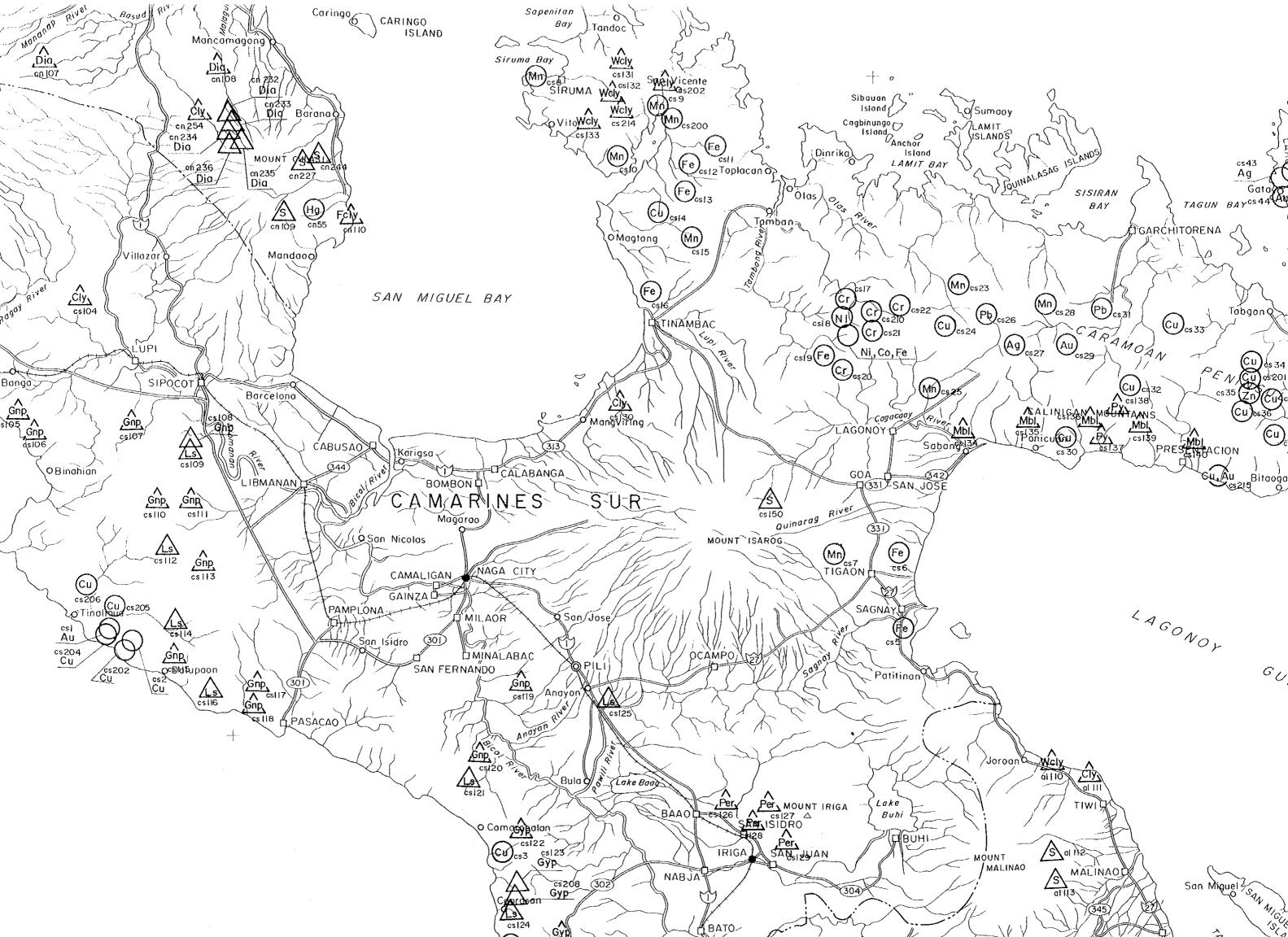
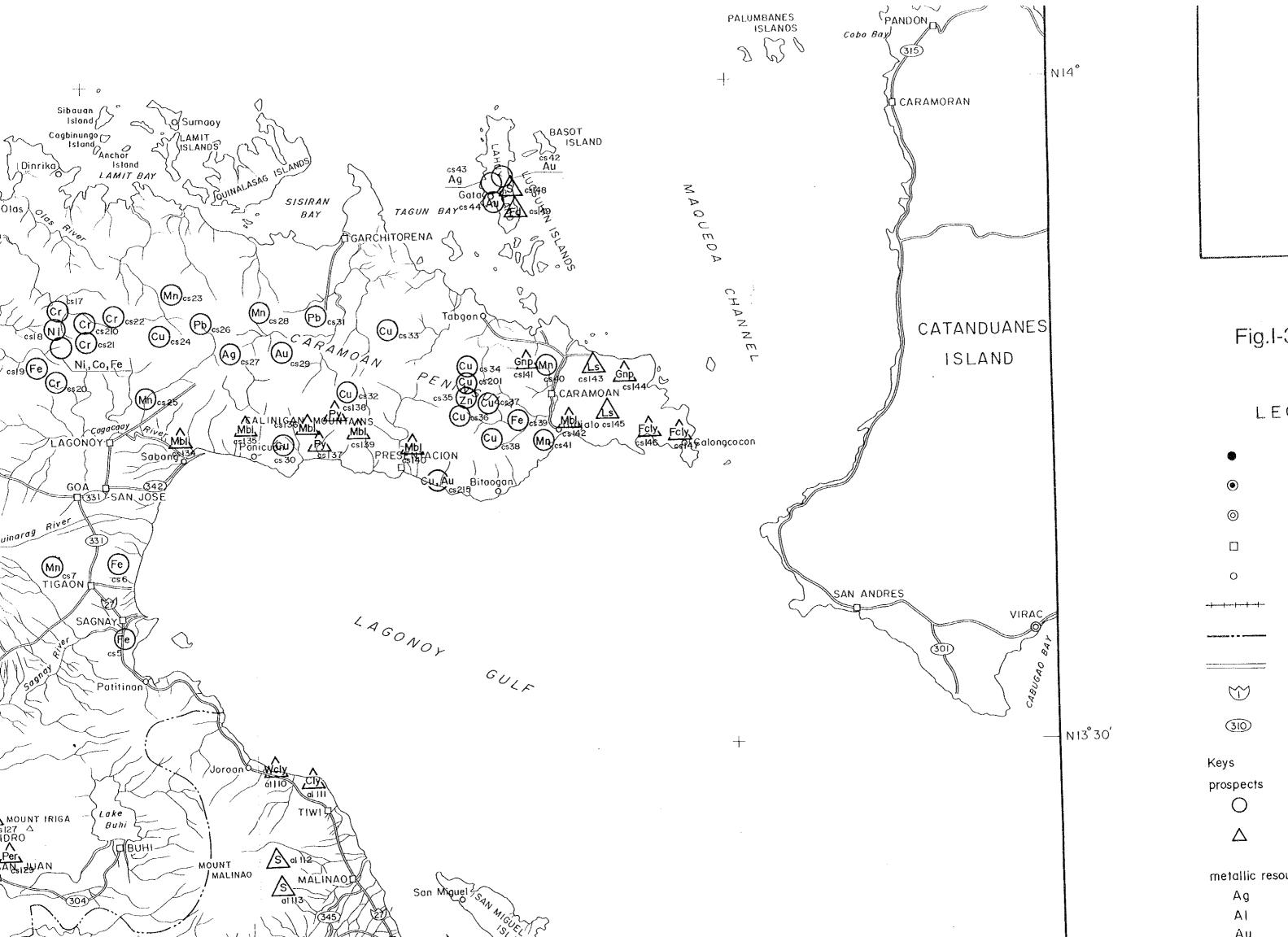
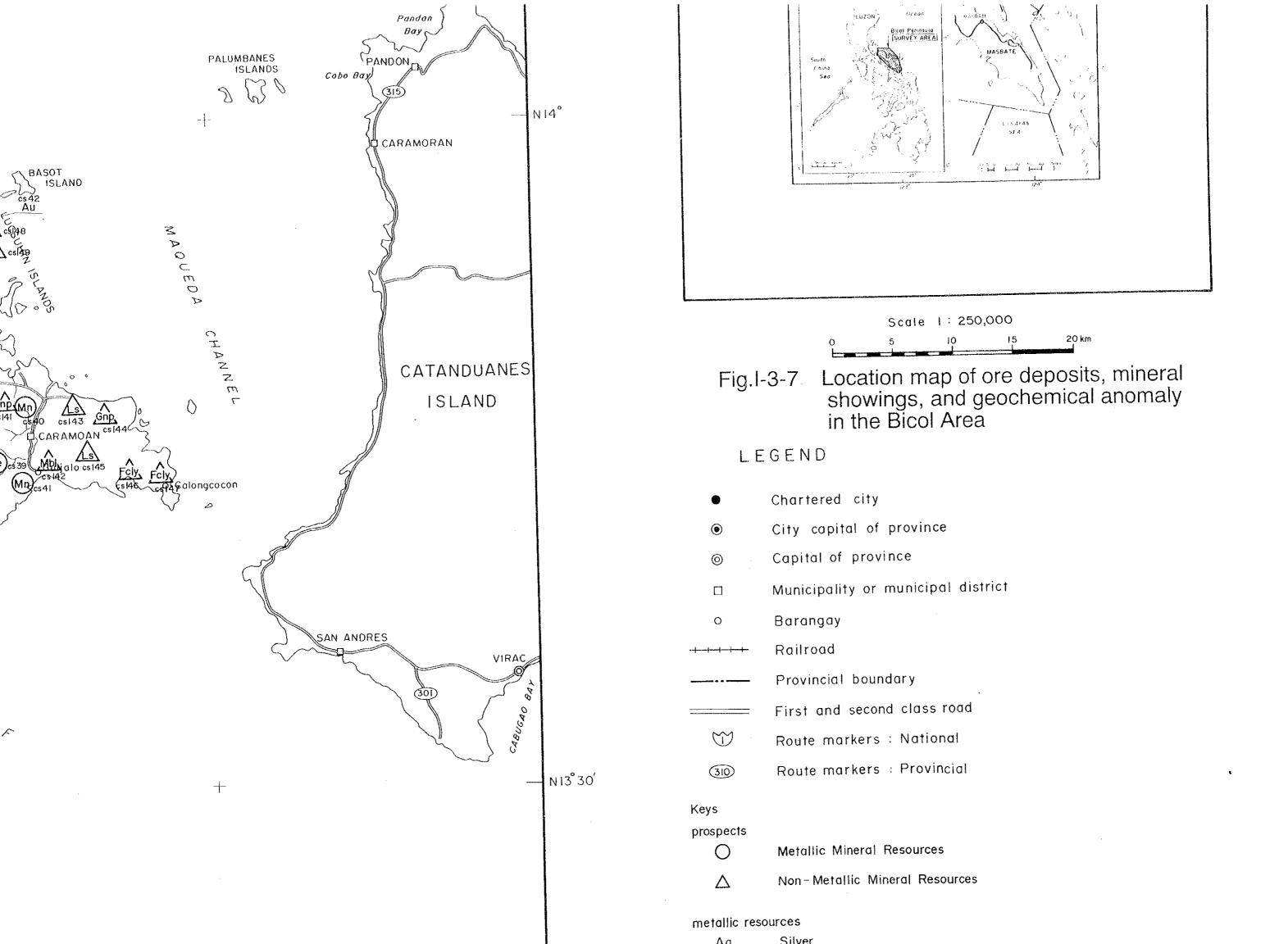


Fig.I-3-7 Location map of ore deposits, mineral





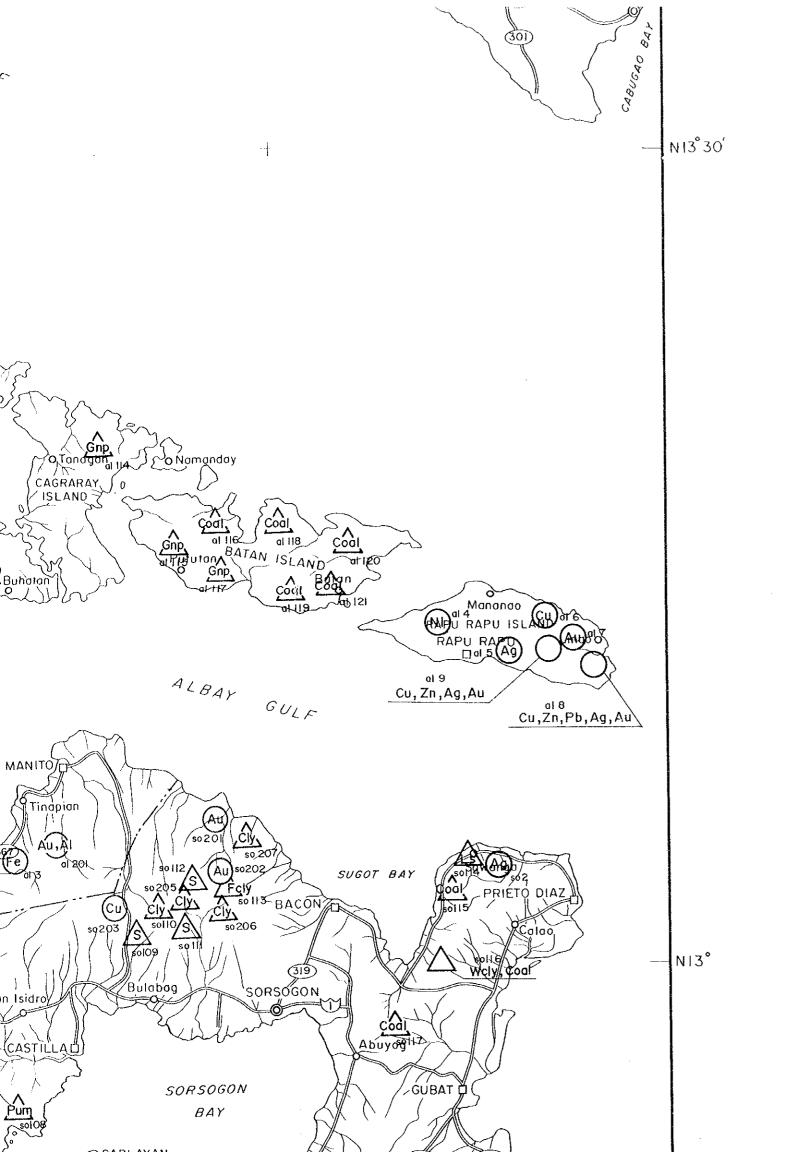












Provincial boundary

First and second class road

Route markers: National

Route markers: Provincial

Keys

prospects

Metallic Mineral Resources

△ Non-Metallic Mineral Resources

## metallic resources

Silver Αg ΑI Aluminum Gold Αu Сo Cobalt Cr Chromium Cu Copper Fe Iron Hg Mercury Mn Manganese Molybdenum Μо Νi Nickel Pz Lead U Uranium Zn Zinc

## non-metallic resources

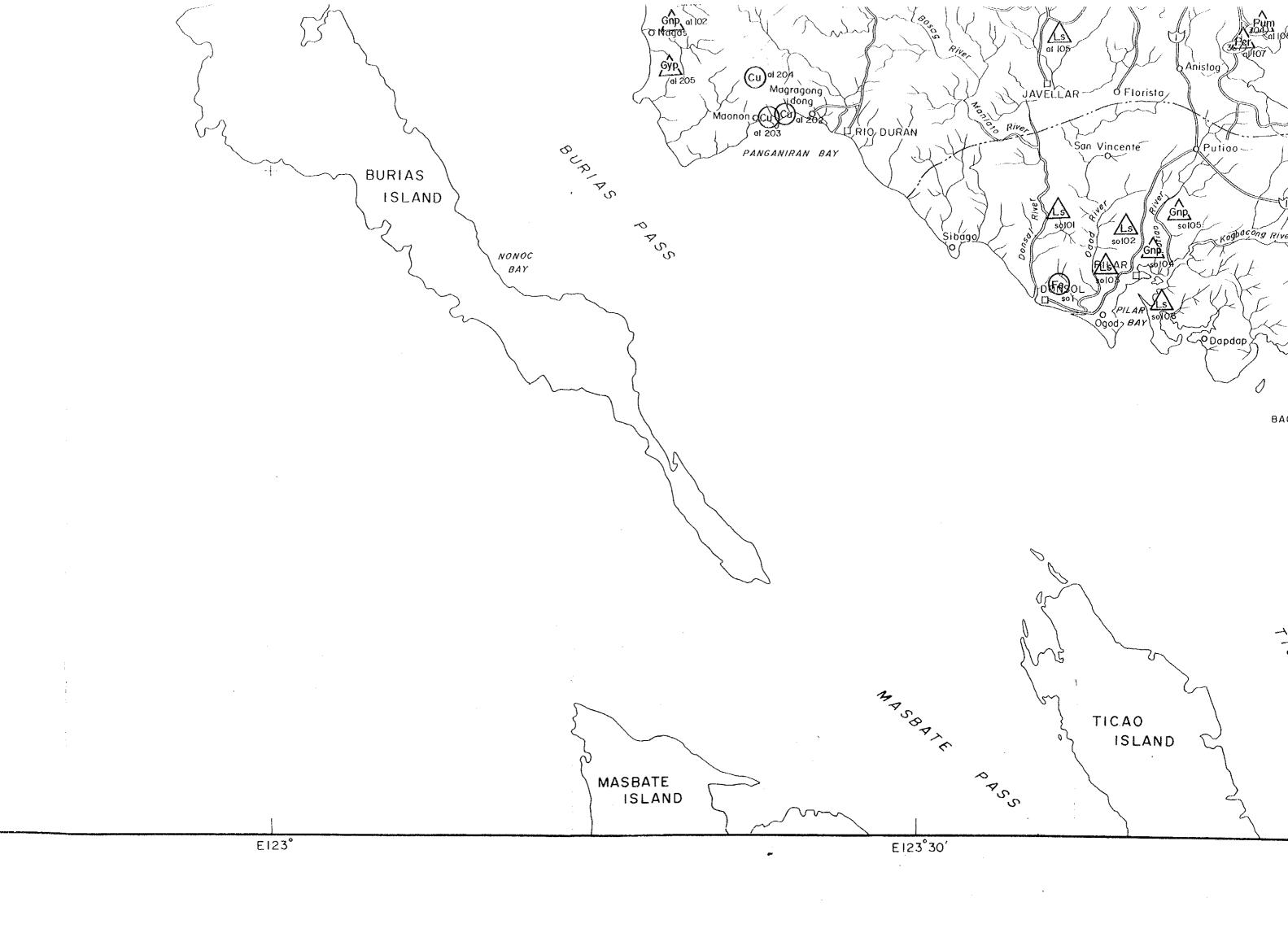
Bnt

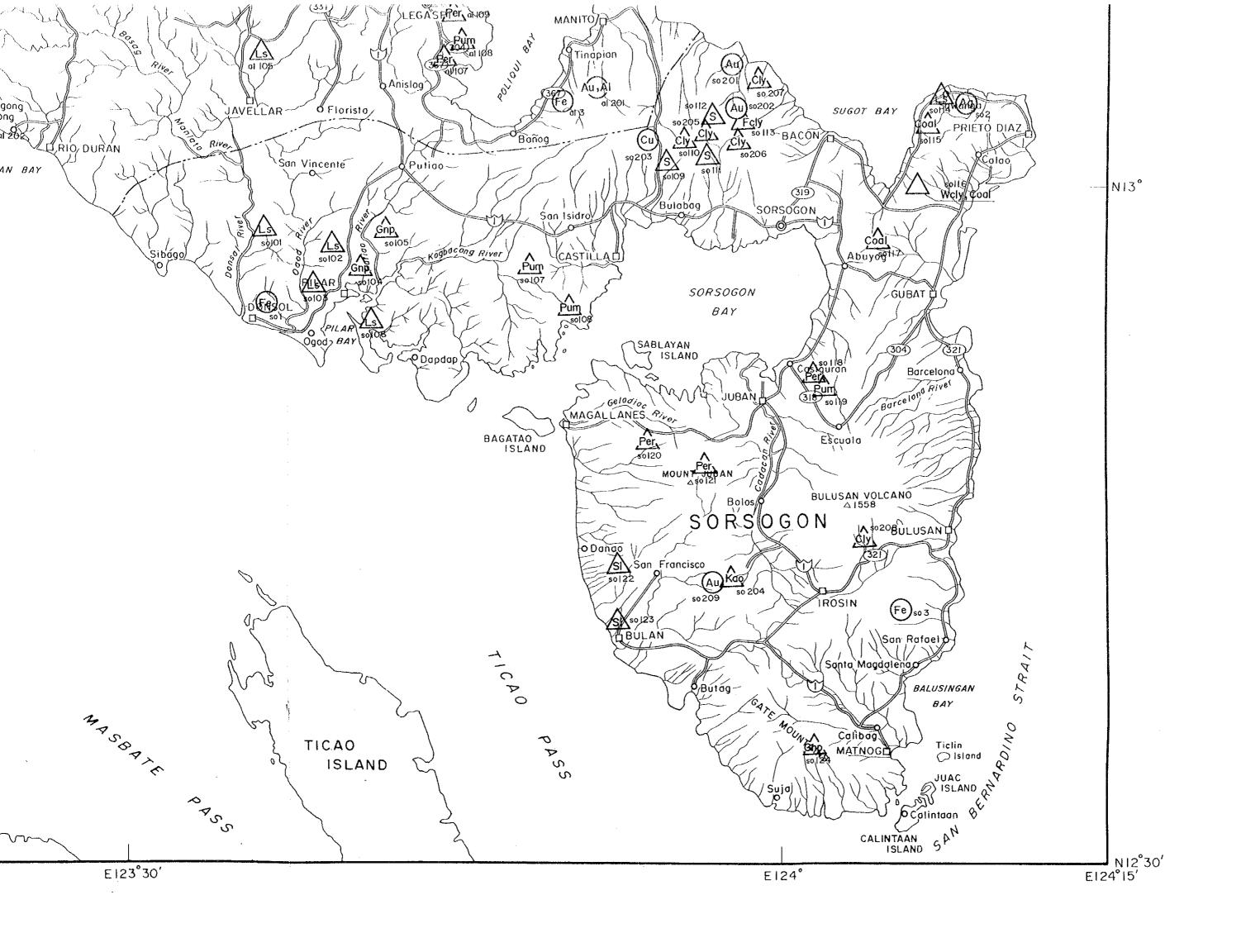
Ccly China Clay
Cly Clay
Coal Coal
Dia Diatomaceous Earth
Fcly Flint Clay
Fd Feldsper
Gnp Guano-Phosphate

Bentonite

Gyp Gypsum Kaoline Kao Ls Limestone Mbl Marble Perlite Per Pumice Pum Ру Pyrite S Sulfur Si Silica Wcly White Clay

NI3° SIBUYAN SEA50 km 20 40 N12° 30' \_\_\_\_\_ E122°30′ E123°





Coal Dia Fcly Fd Gnp Gyp Kao Ls Mbl Per Pum Py

Si

Wcly



Coal Coal Dia Diatomaceous Earth Fcly Flint Clay Fd Feldsper Guano-Phosphate Gnp Gyp Gypsum Kaoline Kao Ls Limestone MbI Marble Perlite Per Pumice Pum Pyrite Ру Sulfur S Silica Si

White Clay

Wcly

