U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY
Dallas L. Peck, Director

CIRCUM-PACIFIC COUNCIL FOR ENERGY AND MINERAL RESOURCES
Michel T. Halbouty, Chairman

CIRCUM-PACIFIC MAP PROJECT
John A. Reinemund, Director
George Gryc, General Chairman

ENERGY-RESOURCES MAP OF THE CIRCUM-PACIFIC REGION

SOUTHEAST QUADRANT

SHEET 2 OF 2 (SEDIMENTARY BASINS)

CROSS SECTIONS AND BASIN OUTLINES

MARCELO R. YRIGOYEN
Trend Argentina, S.A.,
Buenos Aires, Argentina

JOSE CORVALAN D., CHAIRMAN, SOUTHEAST QUADRANT PANEL

MAP PRODUCTION BY U.S. GEOLOGICAL SURVEY
Compilation Coordinated by George Gryc, Warren O. Addicott, and Theresa R. Swint-Iki
Cartography by James L. Zimmerman, Frances R. Mills,
Jorge A. Carmona, Salvador Frai, and Renee Olson

SCALE 1:10 000 000

250 0 250 500 750 1000 1250 1500 KILOMETERS

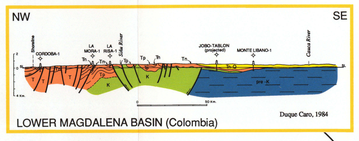
250 0 250 500 750 MILES

200 0 200 400 600 NAUTICAL MILES

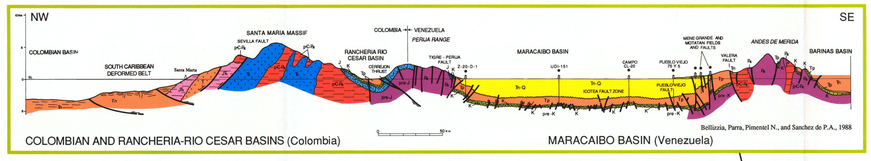
Lambert Azimuthal Equal-Area Projection
(Map center point: 40°S., 100°W.)

1991

INTRA-ARC BASINS

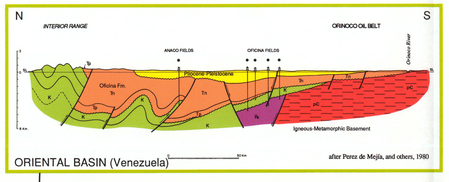


LOWER MAGDALENA BASIN (Colombia)

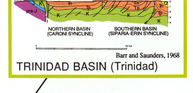


COLOMBIAN AND RANCHERIA-RIO CESAR BASINS (Colombia)

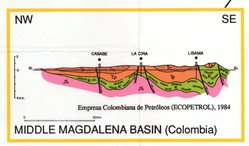
MARACAIBO BASIN (Venezuela)



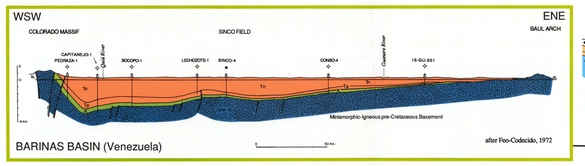
ORIENTAL BASIN (Venezuela)



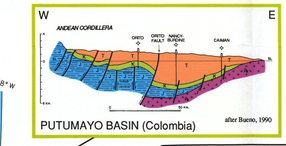
TRINIDAD BASIN (Trinidad)



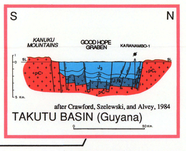
MIDDLE MAGDALENA BASIN (Colombia)



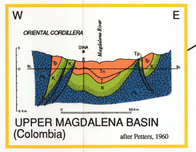
BARINAS BASIN (Venezuela)



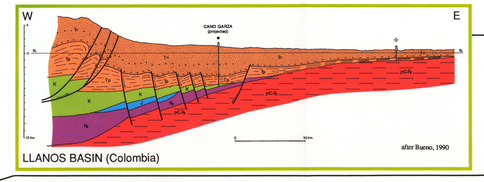
PUTUMAYO BASIN (Colombia)



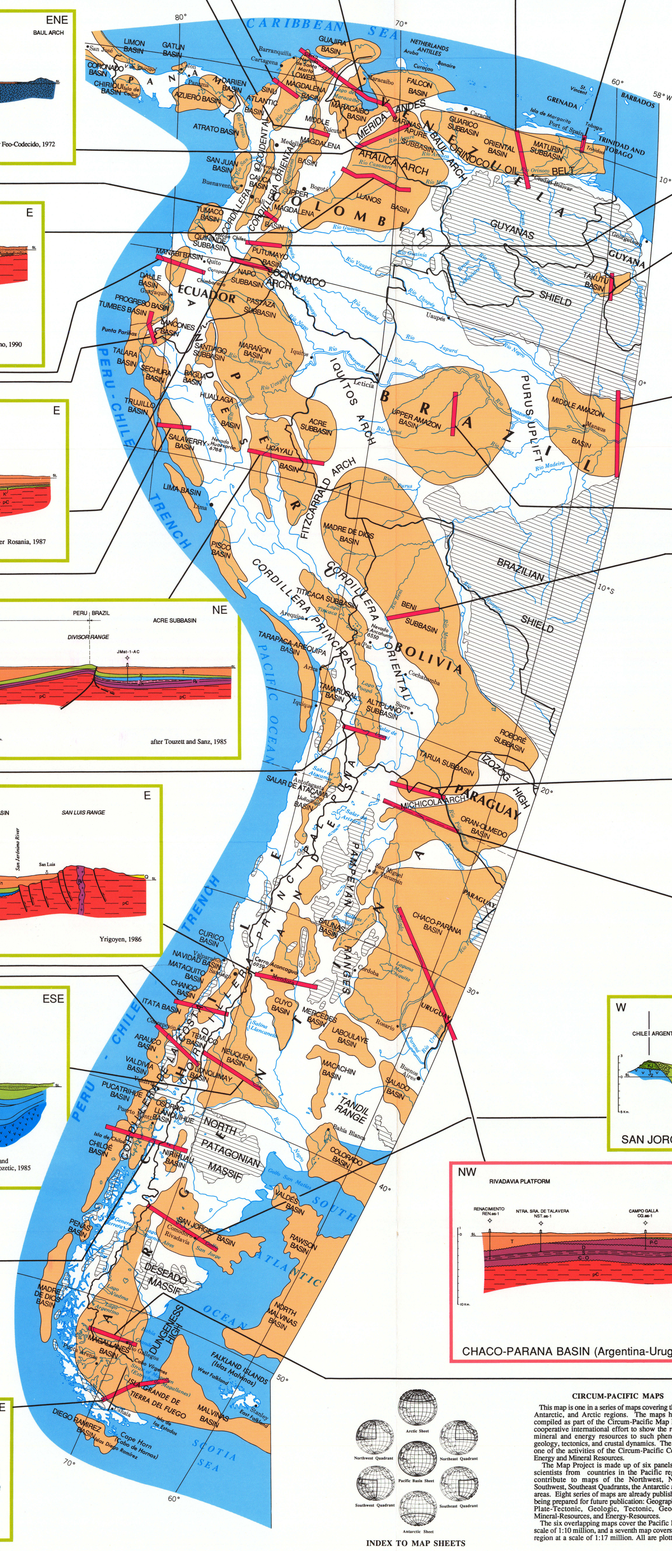
TAKUTU BASIN (Guyana)



UPPER MAGDALENA BASIN (Colombia)

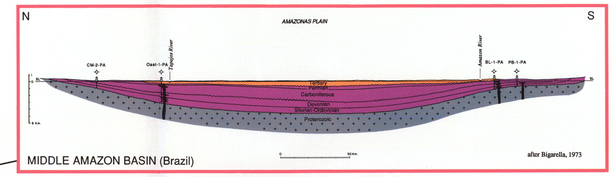


LLANOS BASIN (Colombia)

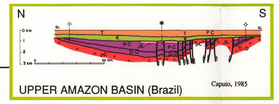


BACKARC PERICRATONIC BASINS

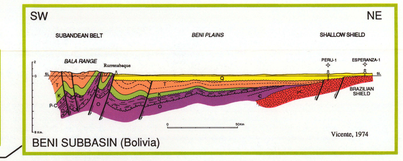
INTRACRATONIC BASINS



MIDDLE AMAZON BASIN (Brazil)

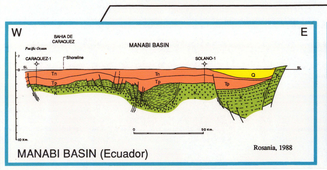


UPPER AMAZON BASIN (Brazil)

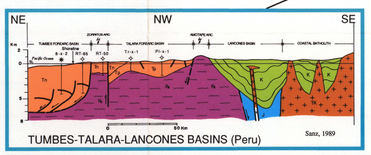


BENI SUBBASIN (Bolivia)

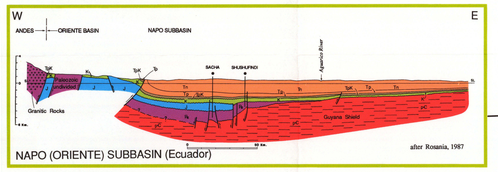
MARGINAL FOREARC BASINS



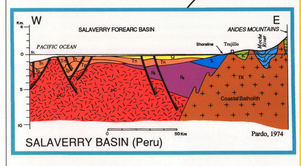
MANABI BASIN (Ecuador)



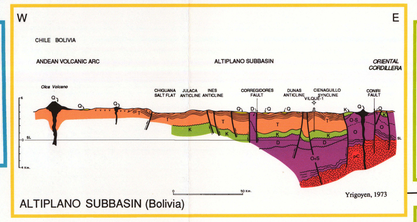
TUMBES-TALARA-LANCONES BASINS (Peru)



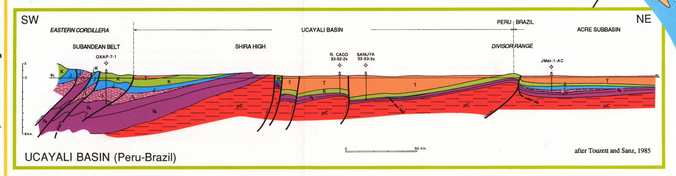
NAPO (ORIENTE) SUBBASIN (Ecuador)



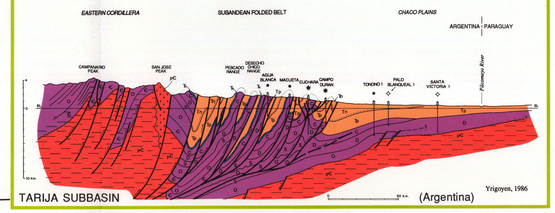
SALAVERRY BASIN (Peru)



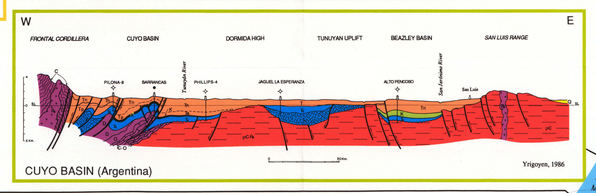
ALTIPLANO SUBBASIN (Bolivia)



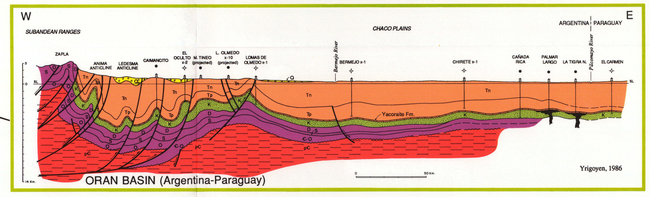
UCAYALI BASIN (Peru-Brazil)



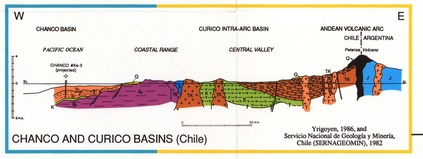
TARIJA SUBBASIN (Argentina)



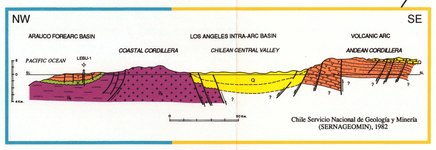
CUYO BASIN (Argentina)

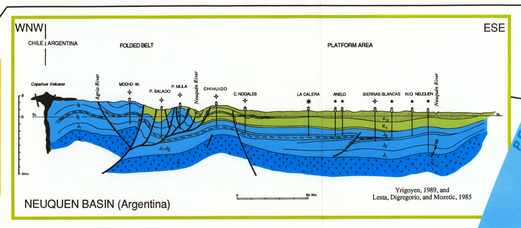


ORAN BASIN (Argentina-Paraguay)

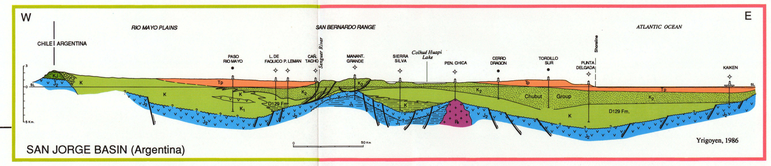


CHANCO AND CURICO BASINS (Chile)

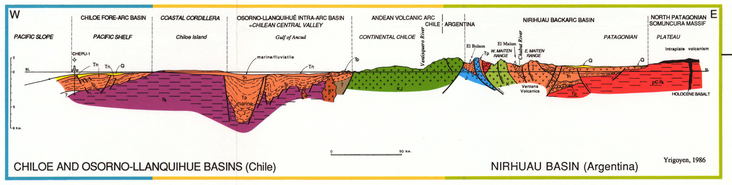




NEUQUEN BASIN (Argentina)

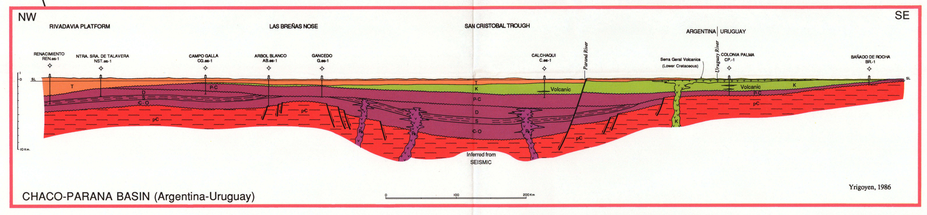


SAN JORGE BASIN (Argentina)

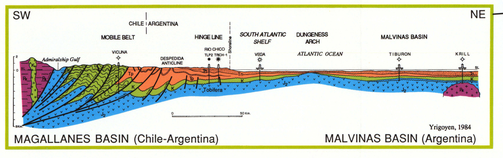


CHILOE AND OSORNO-LLANQUIHUE BASINS (Chile)

NIRIHUAU BASIN (Argentina)

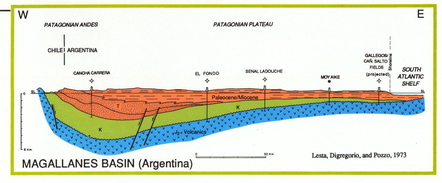


CHACO-PARANA BASIN (Argentina-Uruguay)



MAGALLANES BASIN (Chile-Argentina)

MALVINAS BASIN (Argentina)



MAGALLANES BASIN (Argentina)

EXPLANATION OF CROSS-SECTION

CORRELATION DIAGRAM

	Age		Ma
Q	QUATERNARY		2
Tx	Pliocene	Neogene	5
Tm	Miocene		24
Tp	Oligocene	Paleogene	38
Te	Eocene	Tertiary	55
Tc	Paleocene		63
TpK	Late Cretaceous (Pg)	CENOZOIC	96
Kl	Early Cretaceous (K)		138
J	Jurassic	MESOZOIC	205
Kc	Late Triassic		
Ks	Middle Triassic		
Kp	Early Triassic		
Pz	Permian (P)		~240
Pc	Late Carboniferous	PALEOZOIC	290
Pl	Early Carboniferous		~330
Pd	Devonian (D)		360
Ps	Silurian (S)		410
Po	Ordovician (O)		435
Pc	Cambrian (C)		500
Ip	Late Proterozoic		~570
Im	Middle Proterozoic	PROTEROZOIC	900
Ie	Early Proterozoic		1600
pC	PRECAMBRIAN	ARCHEAN	2500

LITHOLOGY

- Sandstone
- Shale
- Limestone
- Evaporites
- Conglomerate
- Chert
- Volcanic-sedimentary rock
- Volcanic-igneous rock

BASEMENT ROCK

- Volcanic
- Igneous, intrusive
- Crystalline
- Metamorphic

SYMBOLS

- Oil field
- Oil and gas field
- Suspended oil well
- Unproductive borehole
- Onshore drill site
- Offshore drill site
- Major unconformity
- City
- Town

GEOSTRUCTURAL BASIN TYPE

- Marginal forearc basin
- Intra-arc basin
- Backarc pericratonic basin
- Intracratonic basin

MAP EXPLANATION

- Basin outline
- Basement outcrops or shields
- Cross-section line

Datum sea level

Section vertical exaggeration x 5 except Chaco-Parana Basin, x 10

INDEX TO MAP SHEETS

CIRCUM-PACIFIC MAPS

This map is one in a series of maps covering the Pacific, Antarctic, and Arctic regions. The maps have been compiled as part of the Circum-Pacific Map Project, a cooperative international effort to show the relation of mineral and energy resources to such phenomena as geology, tectonics, and crustal dynamics. The project is one of the activities of the Circum-Pacific Council for Energy and Mineral Resources.

The Map Project is made up of six panels of Earth scientists from countries in the Pacific region who contribute to maps of the Northwest, Northeast, Southwest, Southeast Quadrants, the Antarctic and Arctic areas. Eight series of maps are already published or are being prepared for future publication: Geographic, Base, Plate-Tectonic, Geologic, Tectonic, Geodynamic, Mineral-Resources, and Energy-Resources.

The six overlapping maps cover the Pacific Basin at a scale of 1:10 million, and a seventh map covers the entire region at a scale of 1:17 million. All are plotted on the Lambert azimuthal equal-area projection. The index map shows the boundaries of the quadrant maps and the boundaries of the Antarctic and Arctic area maps in the Pacific Ocean.

Geographic names are as recommended by the U.S. Board on Geographic Names, taking into account the recommendations of the Circum-Pacific Map Project panels. Names and boundaries on the maps do not necessarily reflect recognition of the political status of an area by those involved in the preparation and publication of these maps.

ENERGY-RESOURCES MAP SERIES

Maps of the Energy-Resources Series show generalized geologic background, sediment isopachs, oil and gas fields, oil sand and oil shale, areas of salt domes, coal deposits, and geothermal energy sites. Ocean-area sediment isopachs, on a bathymetric contour base, are also shown.

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Base by U.S. Geological Survey, 1977.
Modified in 1990.

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