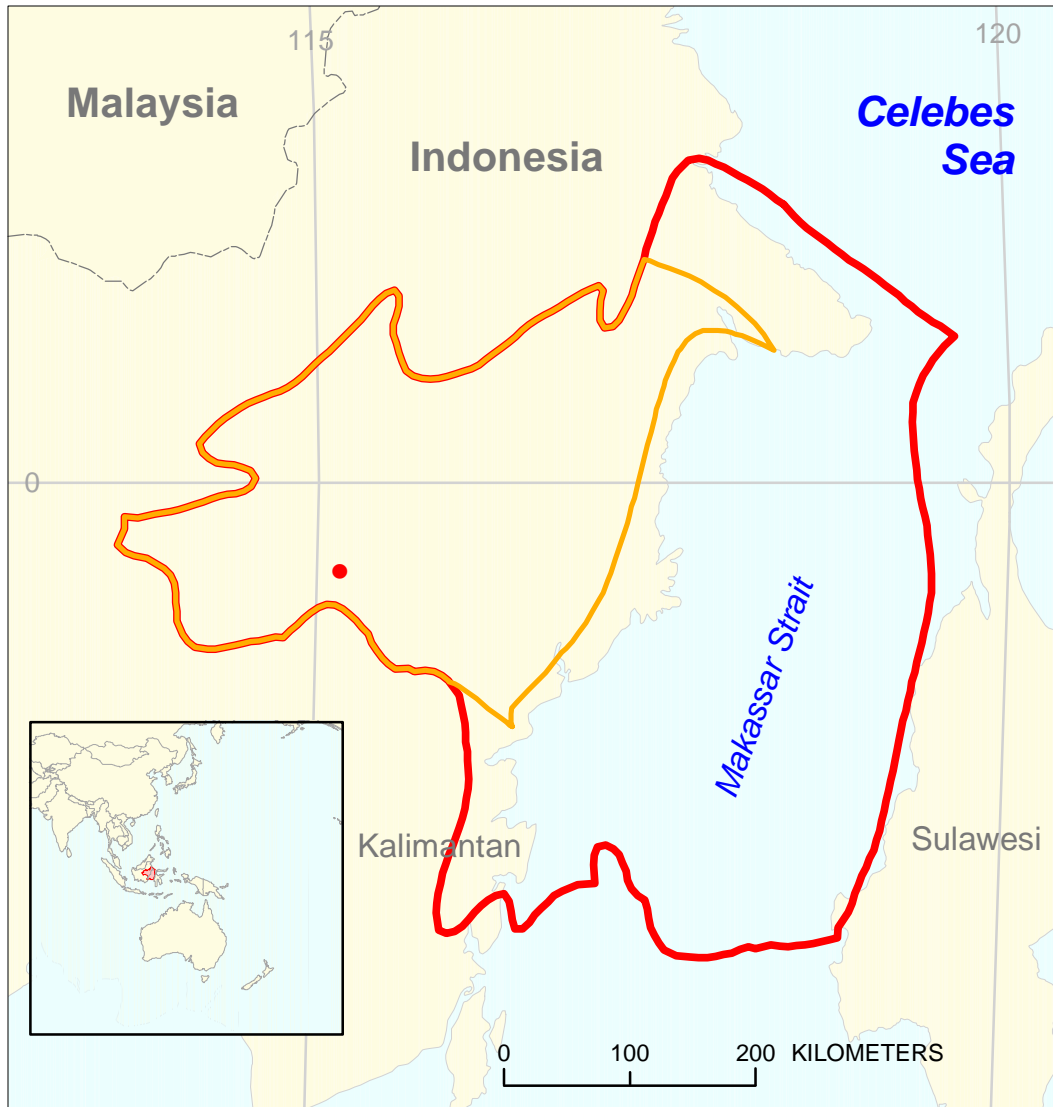



Kutei Basin Fold and Thrust Belt Assessment Unit 38170103



 Kutei Basin Fold and Thrust Belt Assessment Unit 38170103

 Kutei Basin Geologic Province 3817

USGS PROVINCE: Kutei Basin (3817)

GEOLOGIST: P.J. McCabe

TOTAL PETROLEUM SYSTEM: Kutei Basin (381701)

ASSESSMENT UNIT: Kutei Basin Fold and Thrust Belt (38170103)

DESCRIPTION: A fold and thrust belt of Oligocene to Miocene deepwater and deltaic strata.

SOURCE ROCKS: Condensed intervals in the Oligocene bathyal strata; possibly lacustrine strata in the underlying Eocene rift deposits.

MATURATION: Late Oligocene to earliest Miocene before the main inversion tectonics of the early-mid-Miocene.

MIGRATION: Upwards along faults?

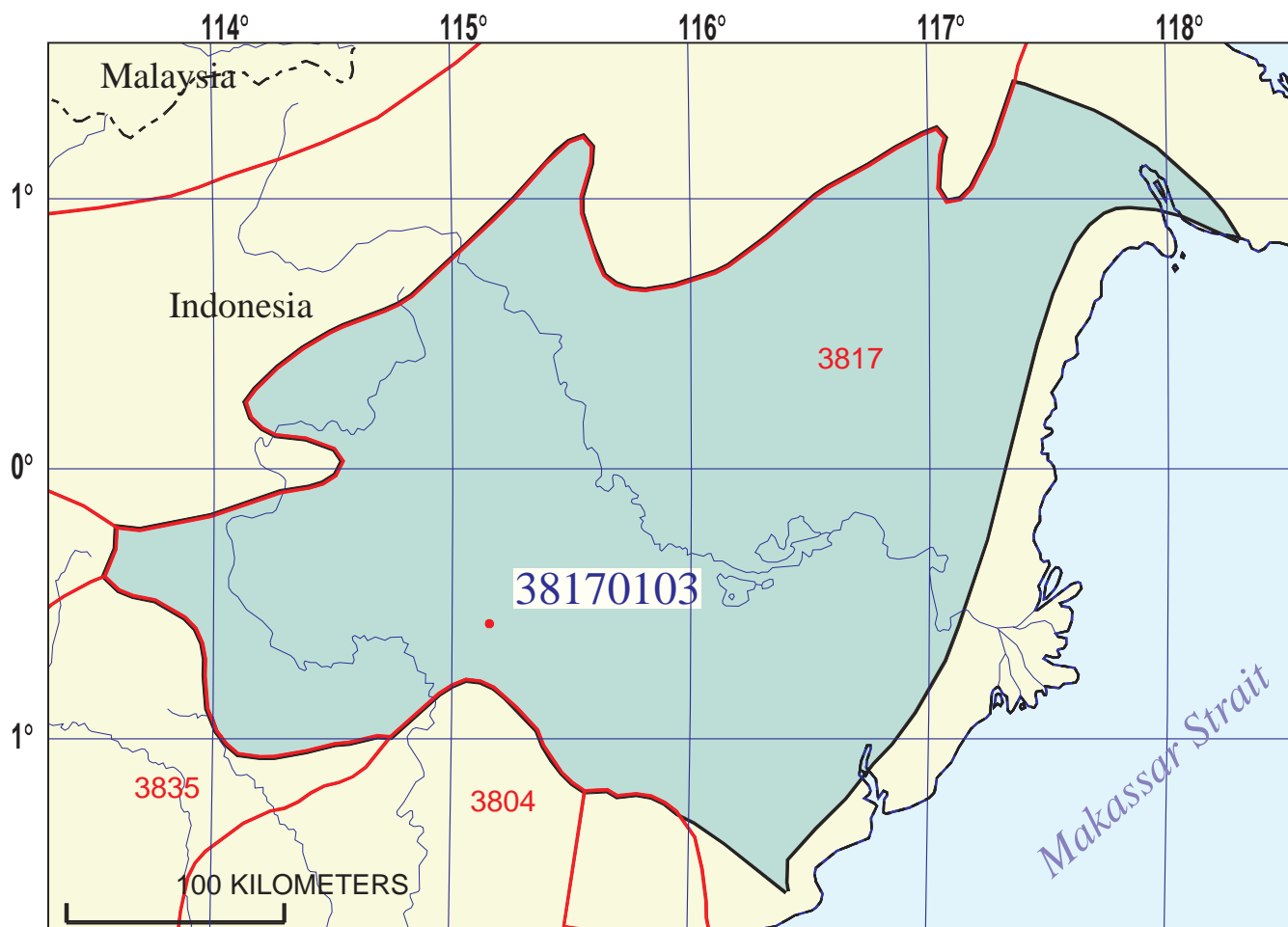
RESERVOIR ROCKS: The only field discovered to date is in Oligocene carbonates but deltaic sandstones are also possible reservoirs.

TRAPS AND SEALS: Anticlines, fault seals.

PETROLEUM INDUSTRY ACTIVITY: One gas field (Kerenden) discovered in 1982. Dense jungle makes exploration difficult.

REFERENCES:

- Chambers, J.L.C., and Daley, T.E., 1997, A tectonic model for the onshore Kutai Basin, east Kalimantan, *in* Fraser, A.J., Matthews, S.J., and Murphy, R.W., eds., Petroleum geology of Southeast Asia: Geological Society Special Publication 126, p. 375-393.
- Moss, S.J., Chambers, J., Cloke, I., Satria, D., Ali, J.R., Baker, S., Milsom, J., and Carter, A., 1997, New observations on the sedimentary and tectonic evolution of the Tertiary Kutai Basin, east Kalimantan, *in* Fraser, A.J., Matthews, S.J., and Murphy, R.W., eds., Petroleum geology of Southeast Asia: Geological Society Special Publication 126, p. 395-416.



Kutei Basin Fold and Thrust Belt Assessment Unit - 38170103

EXPLANATION

- Hydrography
- Shoreline
- 3817 Geologic province code and boundary
- - - Country boundary
- Gas field centerpoint
- Oil field centerpoint
- 38170103 — Assessment unit code and boundary

Projection: Robinson. Central meridian: 0

AVERAGE RATIOS FOR UNDISCOVERED FIELDS, TO ASSESS COPRODUCTS

(uncertainty of fixed but unknown values)

<u>Oil Fields:</u>	minimum	median	maximum
Gas/oil ratio (cfg/bo).....	1400	2800	4200
NGL/gas ratio (bnl/mmcf).....	30	60	90
<u>Gas fields:</u>	minimum	median	maximum
Liquids/gas ratio (bnl/mmcf).....	15	25	35
Oil/gas ratio (bo/mmcf).....			

SELECTED ANCILLARY DATA FOR UNDISCOVERED FIELDS

(variations in the properties of undiscovered fields)

<u>Oil Fields:</u>	minimum	median	maximum
API gravity (degrees).....	20	35	47
Sulfur content of oil (%).....	0.05	0.1	0.15
Drilling Depth (m)	500	2500	6000
Depth (m) of water (if applicable).....			
<u>Gas Fields:</u>	minimum	median	maximum
Inert gas content (%).....		1	
CO ₂ content (%).....		5	
Hydrogen-sulfide content (%).....		0	
Drilling Depth (m).....	500	2500	6000
Depth (m) of water (if applicable).....			

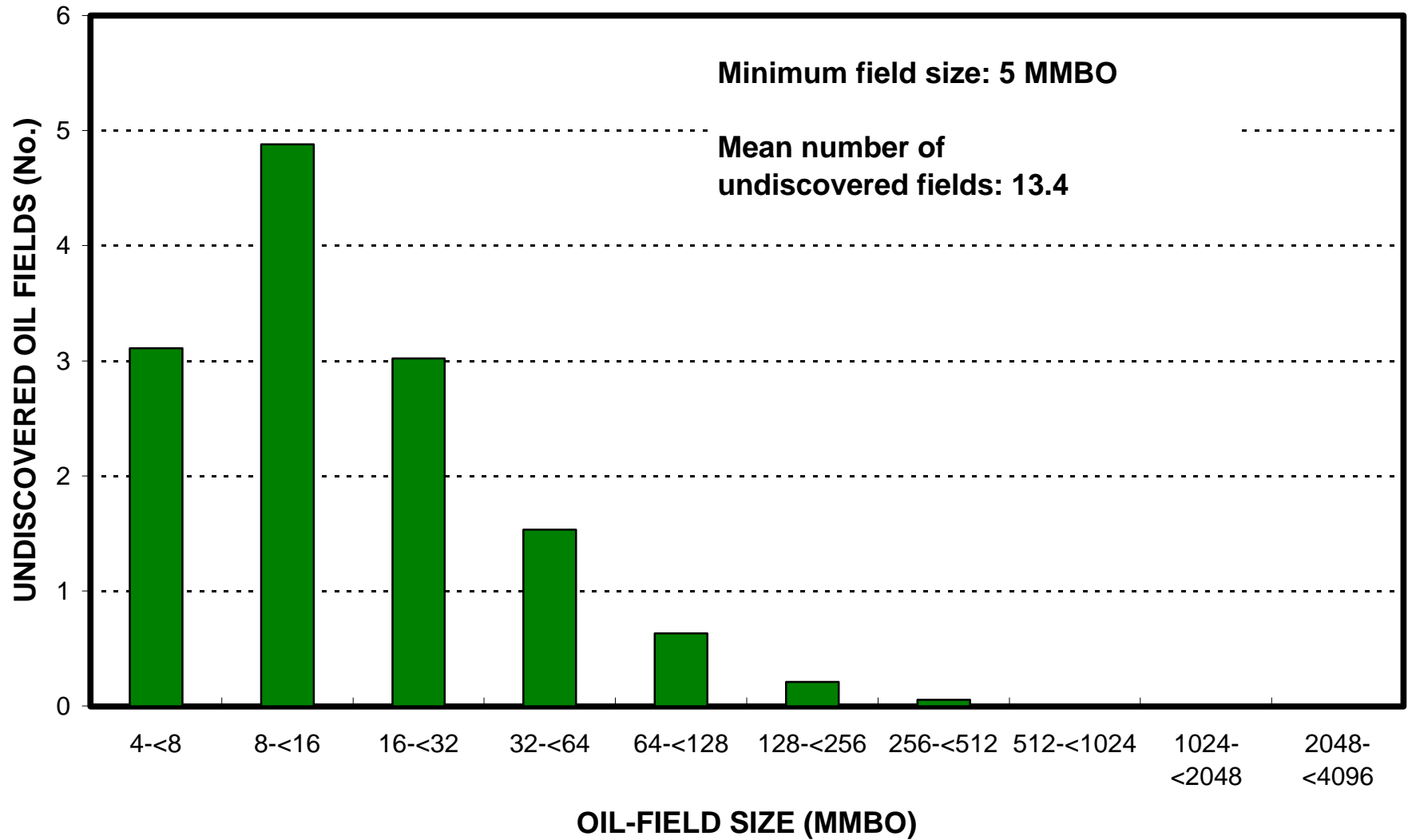
**ALLOCATION OF UNDISCOVERED RESOURCES IN THE ASSESSMENT UNIT
 TO COUNTRIES OR OTHER LAND PARCELS** (uncertainty of fixed but unknown values)

1. Indonesia represents 100 areal % of the total assessment unit

<u>Oil in Oil Fields:</u>	minimum	median	maximum
Richness factor (unitless multiplier):.....	_____	_____	_____
Volume % in parcel (areal % x richness factor):...	_____	100	_____
Portion of volume % that is offshore (0-100%):.....	_____	0	_____
 <u>Gas in Gas Fields:</u>	 minimum	 median	 maximum
Richness factor (unitless multiplier):.....	_____	_____	_____
Volume % in parcel (areal % x richness factor):...	_____	100	_____
Portion of volume % that is offshore (0-100%):.....	_____	0	_____

Kutei Basin Fold and Thrust Belt, AU 38170103

Undiscovered Field-Size Distribution



Kutei Basin Fold and Thrust Belt, AU 38170103

Undiscovered Field-Size Distribution

