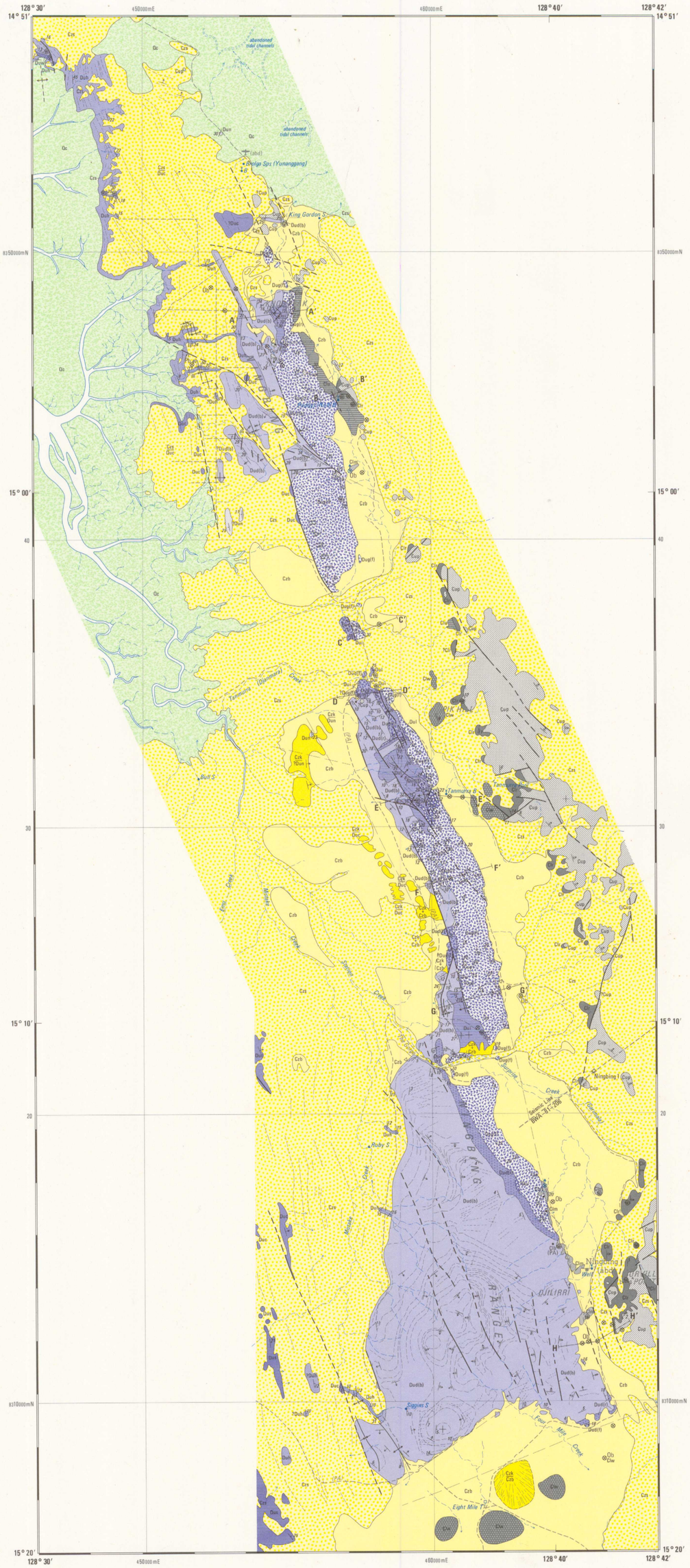
NINGBING RANGE



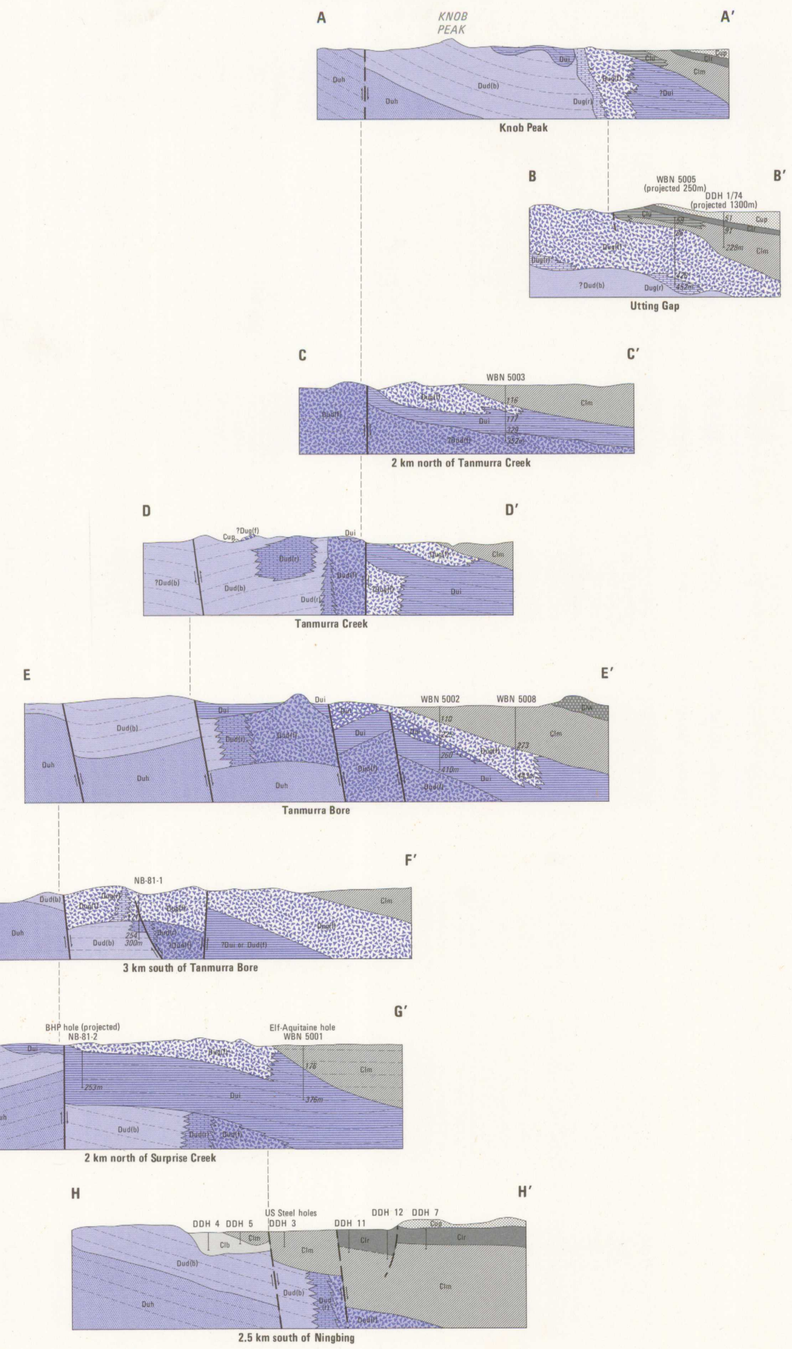
SCALE 1 : 100 000

2000 Metres 0 2 4 6 Kilometres

SECTIONS

SCALE 1 : 25 000

0 1000 Metres



REFERENCE

CAINOZOIC — QUATERNARY

- Qc — Tidal mud and salt flats, mangroves
- Czs, Czb, Czk
  - Czs Sand plain
  - Czb Black soil
  - Czk Calcrete

CARBONIFEROUS

NAMURIAN

- Cup — **POINT SPRING SANDSTONE** : quartz sandstone, minor conglomerate; deltaic

VISEAN

- Clr — **BURVILL FORMATION** : sandstone, subordinate shale, minor limestone; offshore prodelta
- Clu — **UTTING CALCRENITE** : fossiliferous sandy calcarenite, sandstone, shale; offshore marine
- Clw — **WAGGON CREEK FORMATION** : breccia, pebbly sandstone, sandstone, shale; submarine fan
- Clm — **MILLIGANS FORMATION** : black shale, minor sandstone and limestone; offshore marine

TOURNAISIAN

- Clb — **BURT RANGE FORMATION** : limestone, minor shale and sandstone; shallow-marine shelf

LATE DEVONIAN

FAMENNIAN (do VI, do V, do IV, do III, do II)

- Dun — **Ningbing Group** : undifferentiated reef complex
- Dug — **GARIMALA LIMESTONE**
  - (f) limestone breccia, minor bioclastic limestone; marginal-slope facies
  - (r) massive microbial limestone; reef-margin subfacies
- Dul — **WUNGABAL LIMESTONE** : red "scheck" breccia; marginal-slope facies
- Dui — **KAMILILI FORMATION** : flaggy fine-grained bioclastic limestone and shale with interbedded limestone breccia; basin to marginal-slope facies
- Dud — **DJILIRRI LIMESTONE**
  - (f) limestone breccia; marginal-slope facies
  - (r) massive microbial limestone; reef-margin subfacies
  - (b) thin to medium bedded peloidal-skeletal limestone, thickly bedded fenestral limestone and minor sandstone; back-reef subfacies

FRASNIAN (do I)

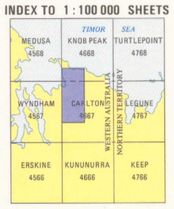
- Duc — **Cockatoo Group** : undifferentiated quartz sandstone
- Duh — **HARGREAVES FORMATION** : fossiliferous massive to laminated quartz sandstone, minor fossiliferous limestone; shallow marine
- Duw — **Westwood Member** : massive stromatoporoid – *Renalcis* – stromatolite limestone and bedded fossiliferous limestone with minor sandstone; reef-margin and back-reef subfacies
- Dus — **Siggins Spring Member** : fine to medium quartz arenite, thin to medium cross-bedded, minor medium parallel-bedded, minor siltstone, fluvial

SYMBOLS

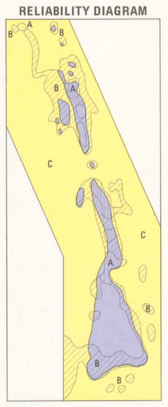
- Geological boundary
  - accurate
  - inferred or concealed
- Fault
  - accurate
  - inferred or concealed
- Folds
  - syncline showing plunge
  - anticline
- Bedding
  - inclined
  - horizontal
  - photo interpreted, dip <5°; dip 5° – 15°; dip 15° – 45°
  - trend line
- Joint pattern
- Lineament, probably reflecting underlying fault
- Localities
  - type section
  - macrofossil
  - vertebrate fossil
  - stromatolite
- Petroleum exploration well, dry, abandoned
- Mineral exploration drill hole
  - with water flow
- Track
- Homestead — Ningbing
- Landing ground
- Watercourse
- Bore with windpump — B
- Spring — S
- Earth tank or dam — T
- Abandoned — (abd)
- Position approximate — (PA)
- Minor mineral occurrence
  - Bitumen — Ob
  - Lead — Pb
  - Zinc — Zn

LOCALITY MAP

INDEX TO 1 : 100 000 SHEETS



RELIABILITY DIAGRAM



- A Detailed mapping
- B Traverses with air photo interpretation
- C Air photo interpretation
- Outcrop of Ningbing Group

Geology : Devonian — A J Mory 1980-82
Carboniferous — G M Beere 1980-81

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DEVONIAN AND CARBONIFEROUS GEOLOGY OF NINGBING RANGE — BONAPARTE BASIN