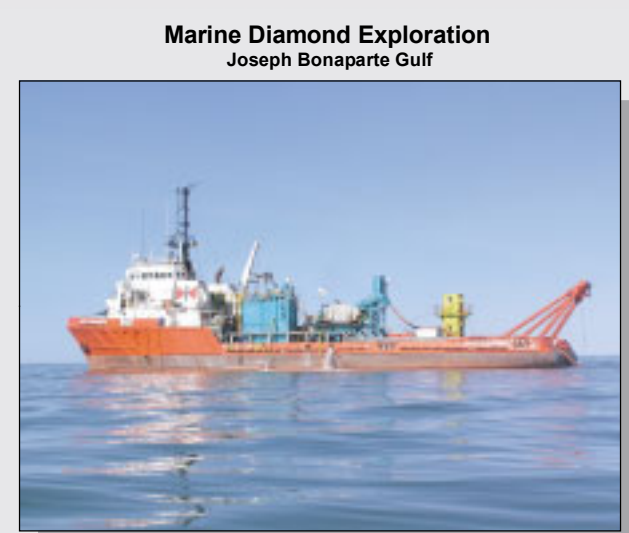
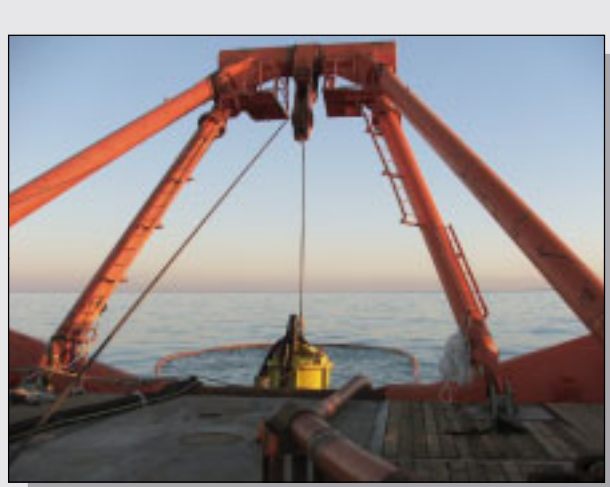


Australian Offshore Mineral Locations



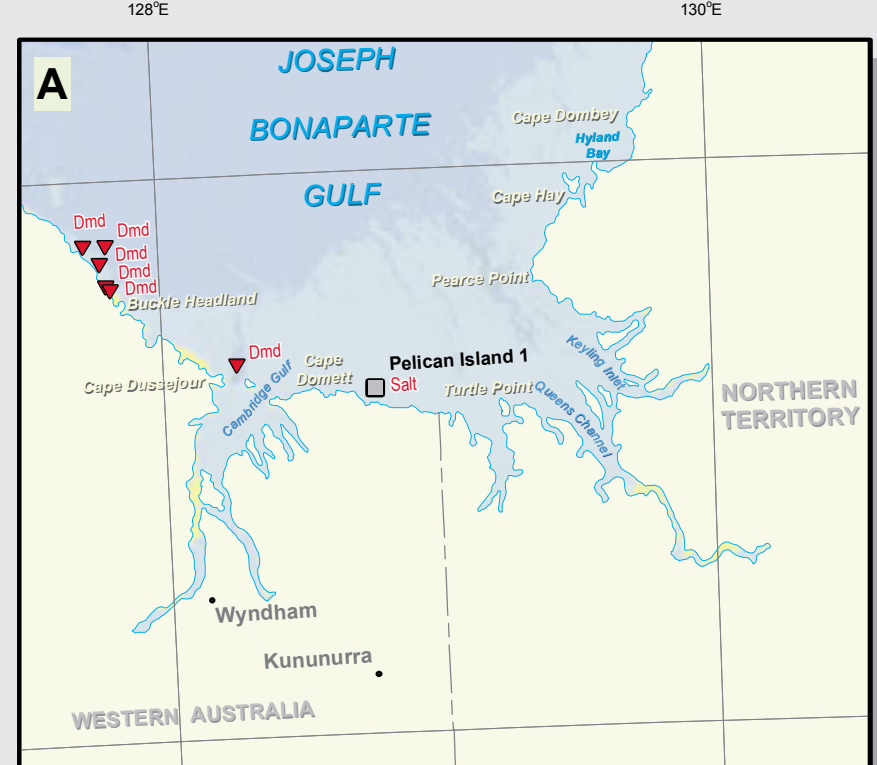
Marine Diamond Exploration
Joseph Bonaparte Gulf



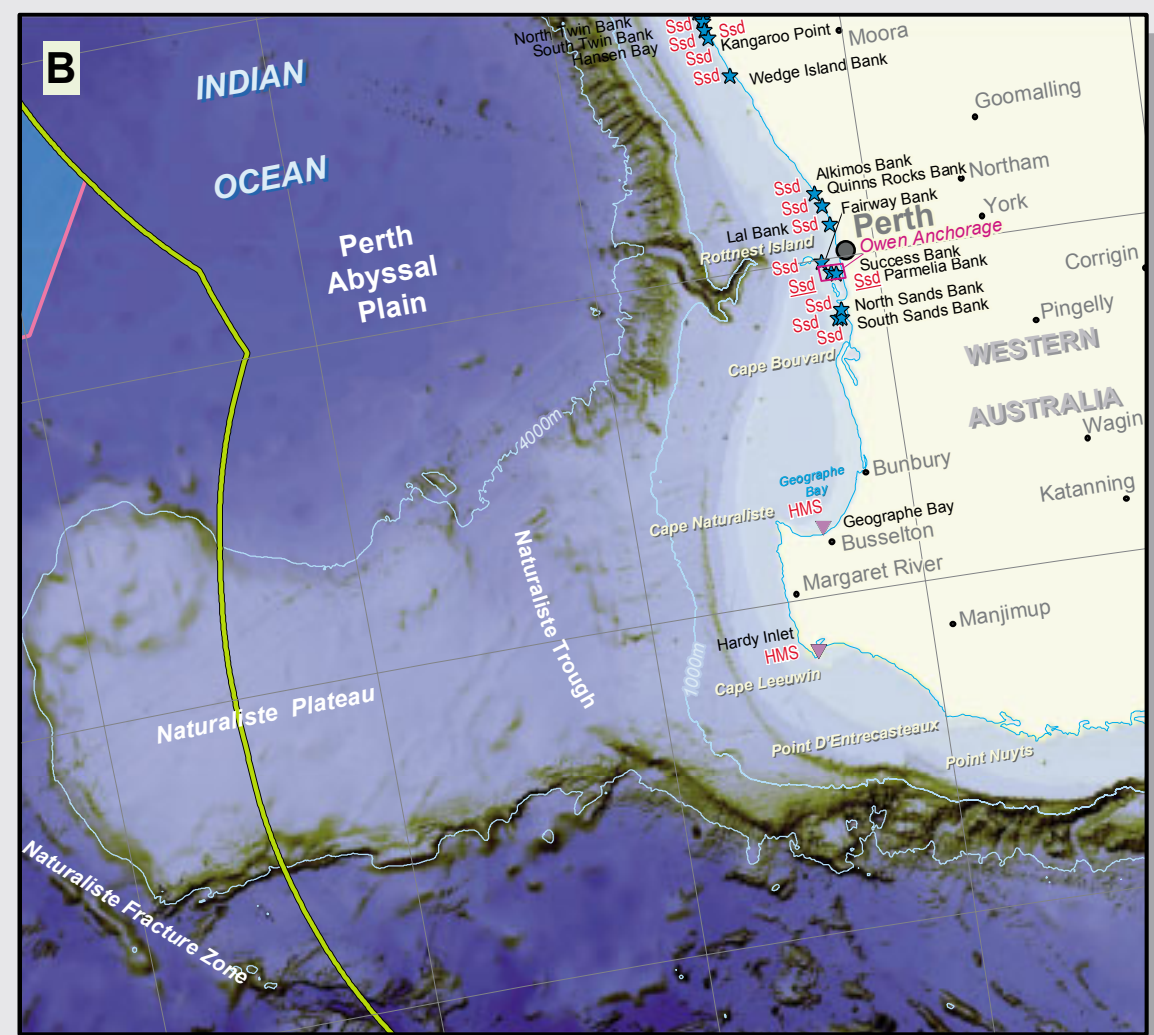
BM's large diameter, vertical assault seabed sampler
being lowered from the stern of MV Pacific Challenger



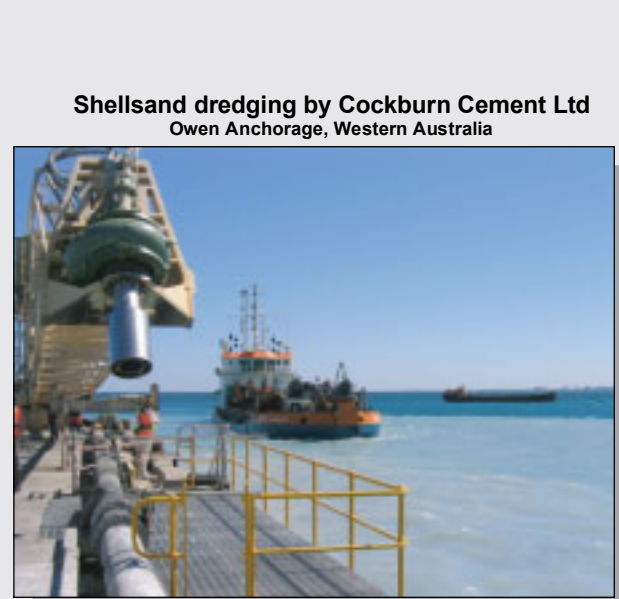
High pressure water jets for seabed sediment (green) ignition during sampling



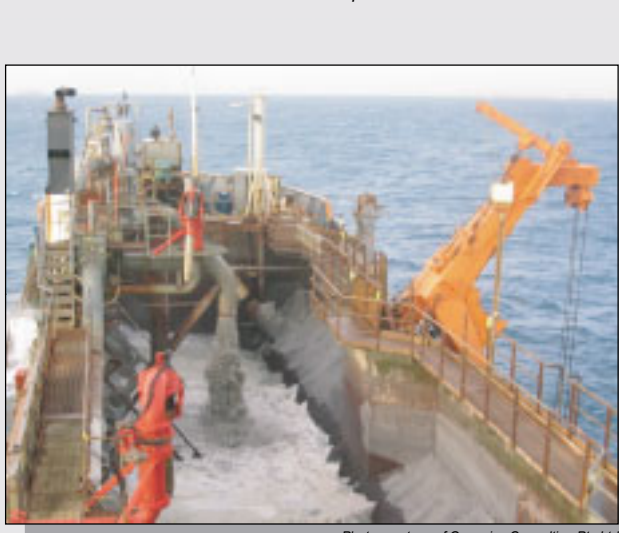
Scale 1:3 000 000



Scale 1:5 000 000



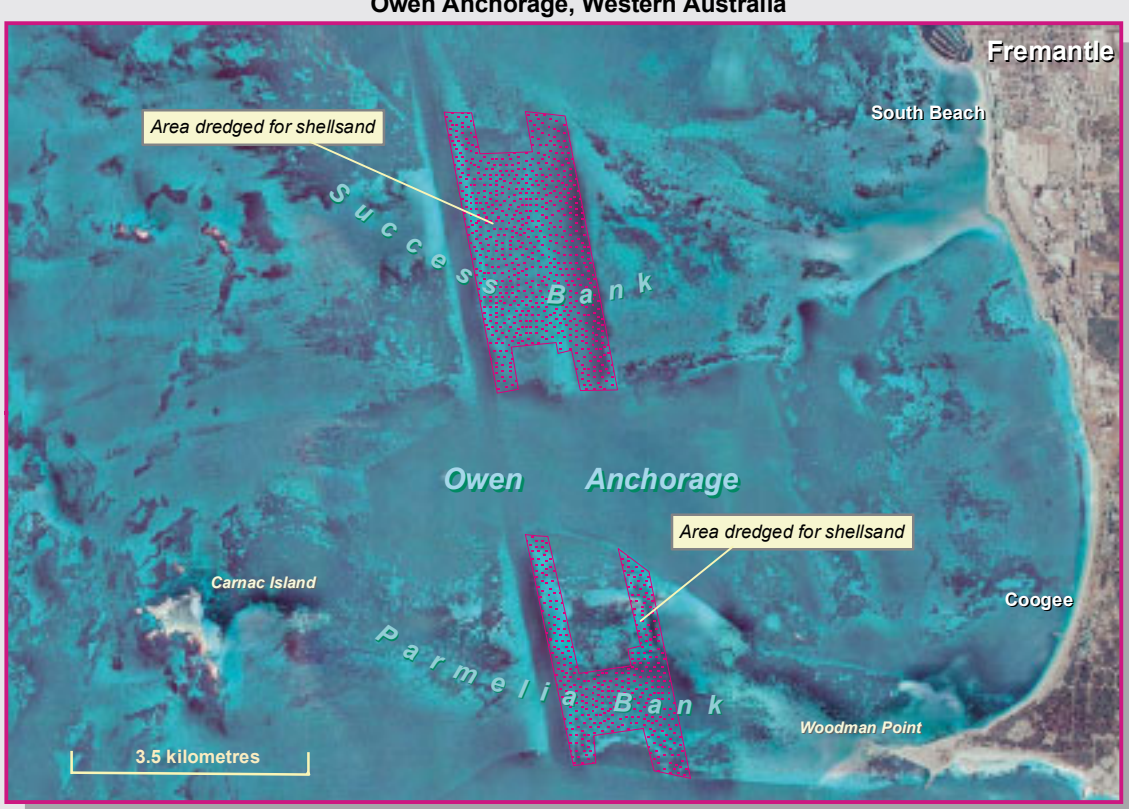
Shellsand dredging by Cockburn Cement Ltd
Owen Anchorage, Western Australia



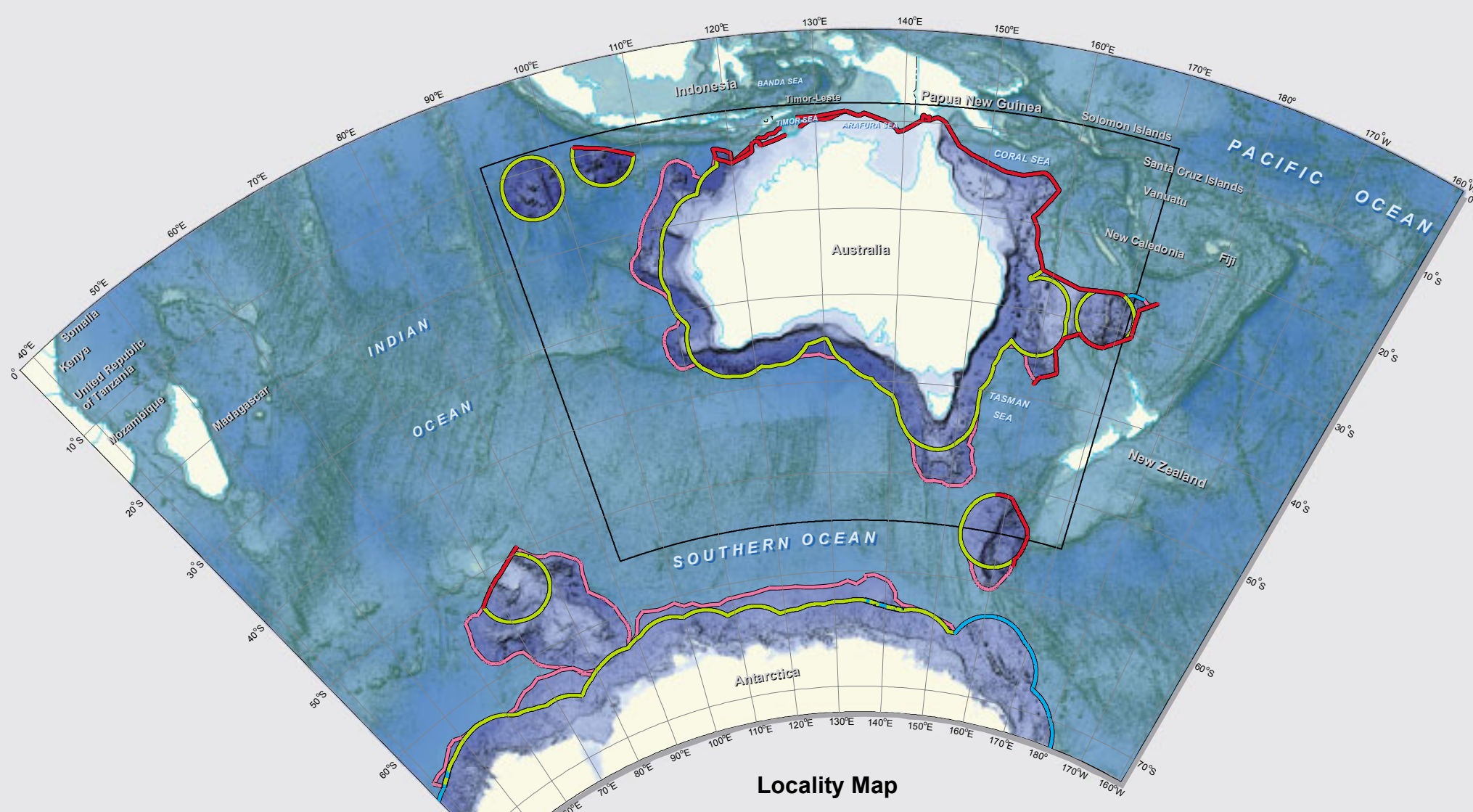
Hopper dredge with shellsand being discharged by
Cockburn Cement's wastewater reclaimer



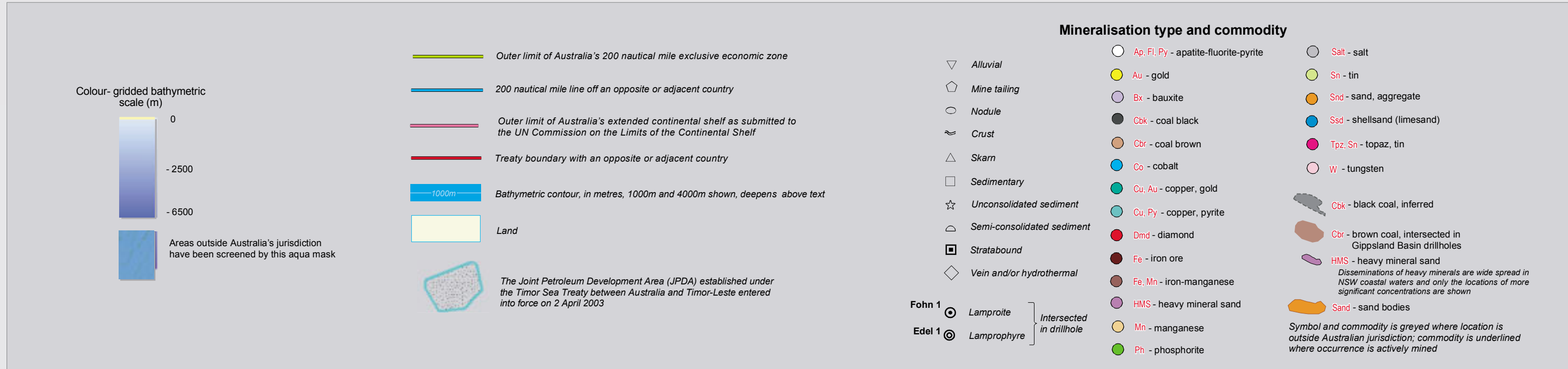
Discharging hopper load of shellsand at
Cockburn Cement's wastewater reclaimer



Success Bank and Permin Bank shellsand areas adjacent to Owen Anchorage



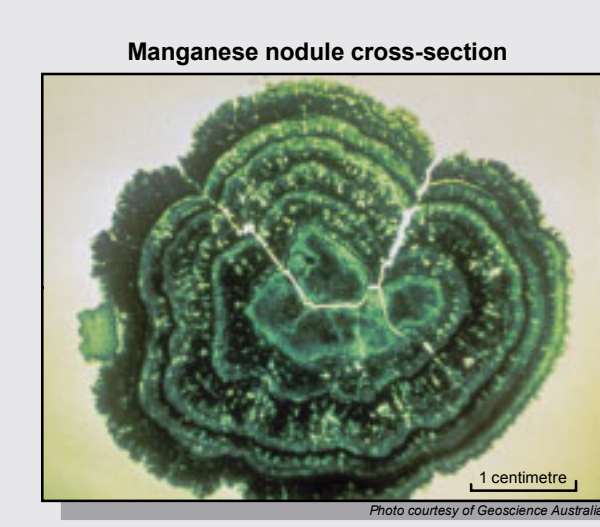
Locality Map



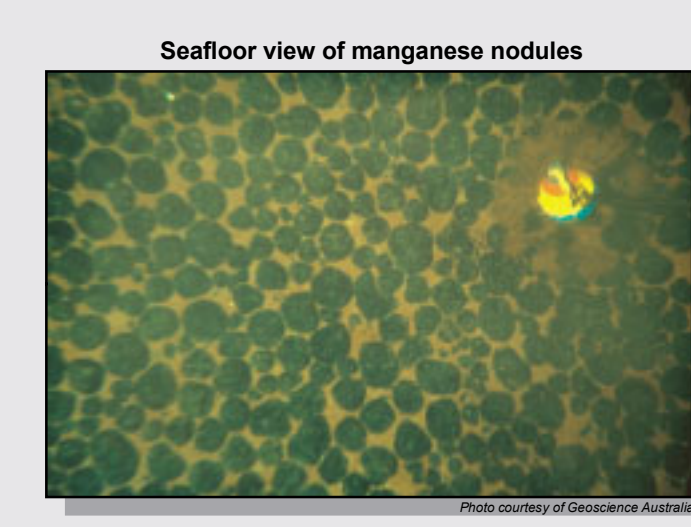
Cross-section through 15 centimetre thick manganese crust from the
South Tasman Rise, south of Tasmania. Water depth 3200 metres



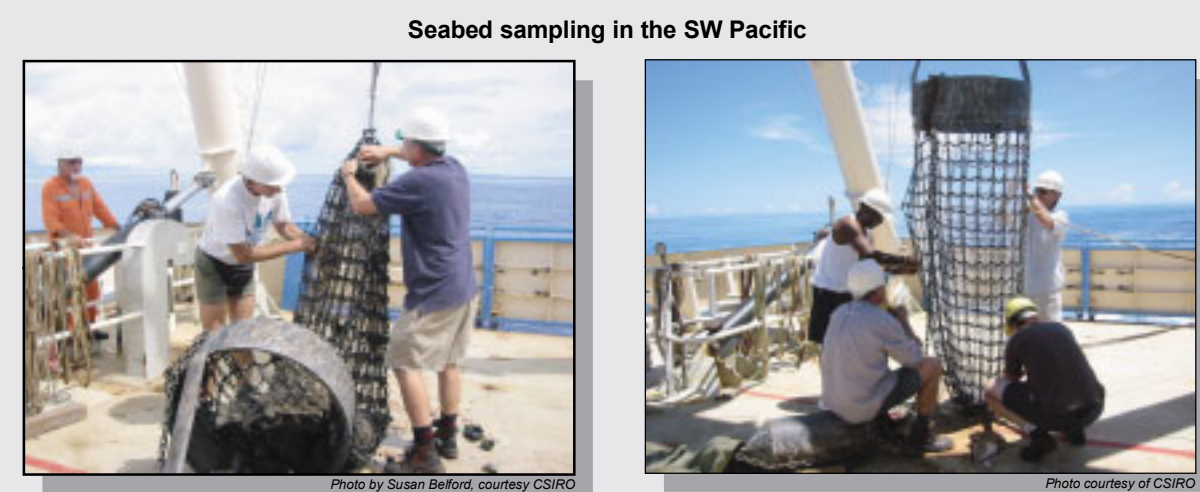
Manganese nodule cluster from the South Tasman
Rise, south of Tasmania. Water depth 3200 metres



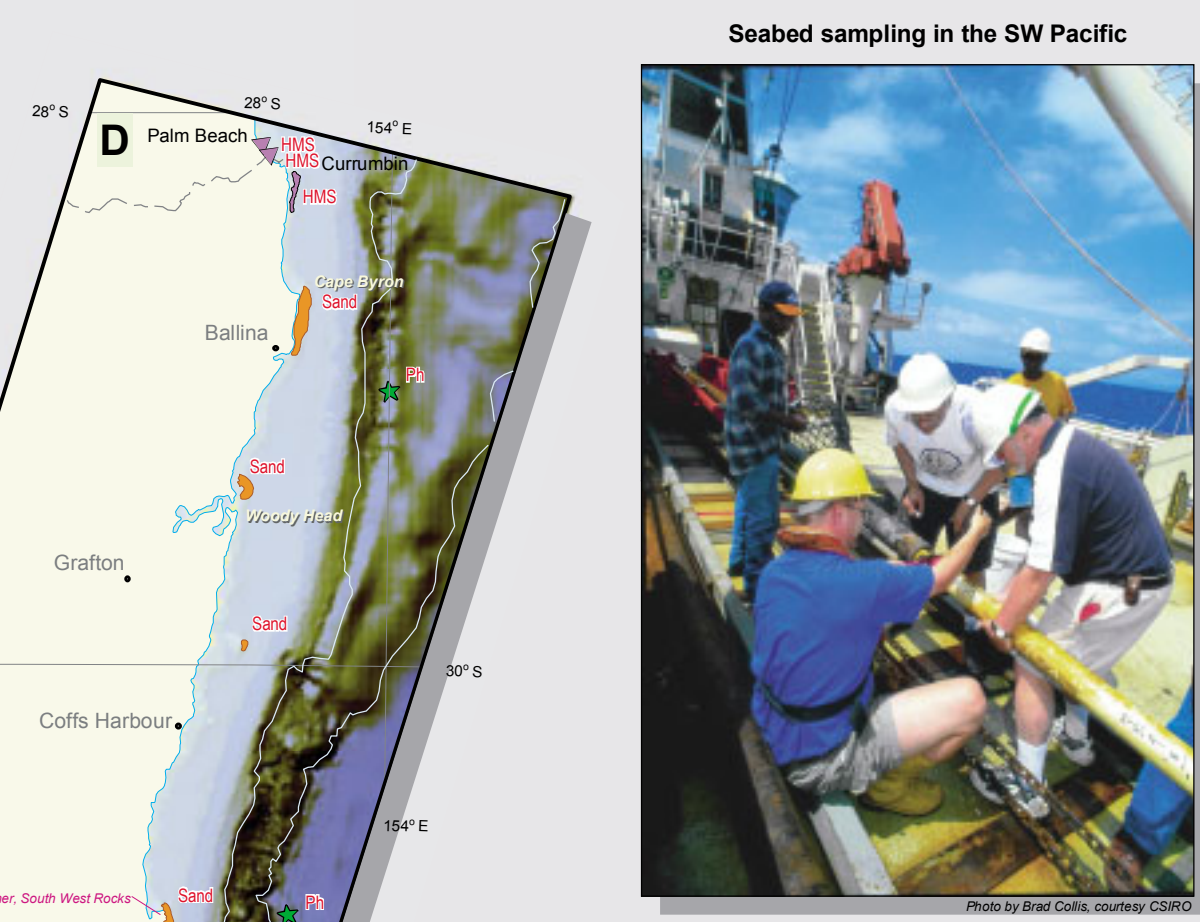
Cross-section through a high-grade manganese nodule with a volcanic
nucleus from the North-east Pacific. Water depth 5000 metres



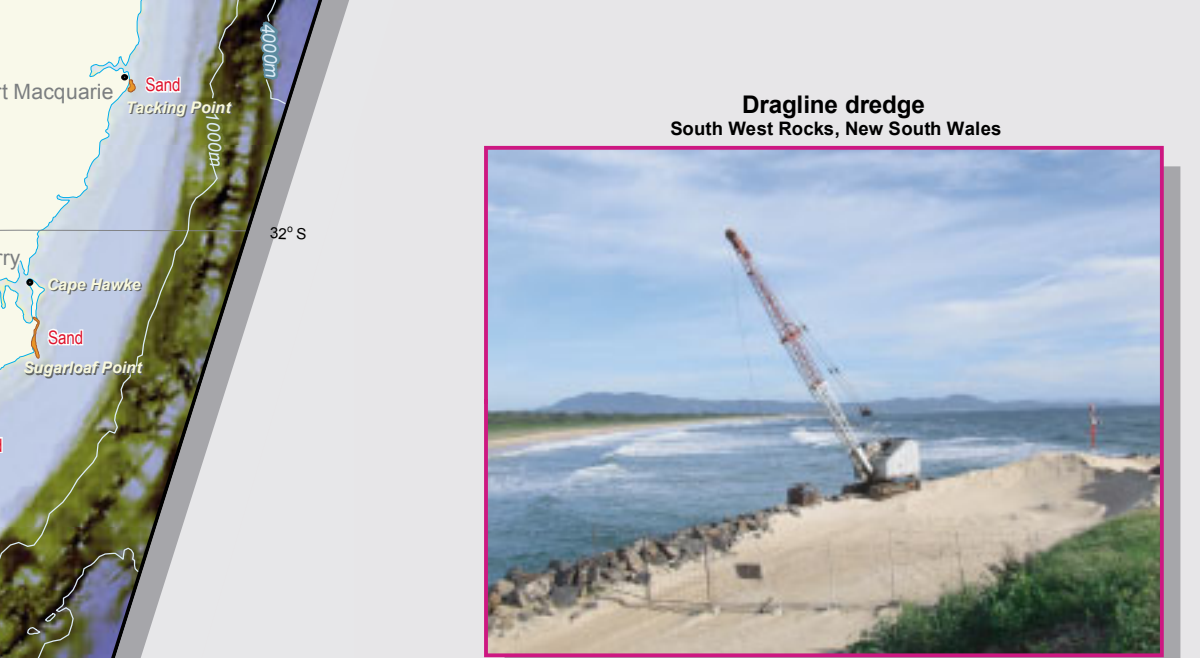
Nodules normally vary in size from 0.5 centimetres to 12 centimetres in diameter,
but are generally seven centimetres across and shaped like a potato



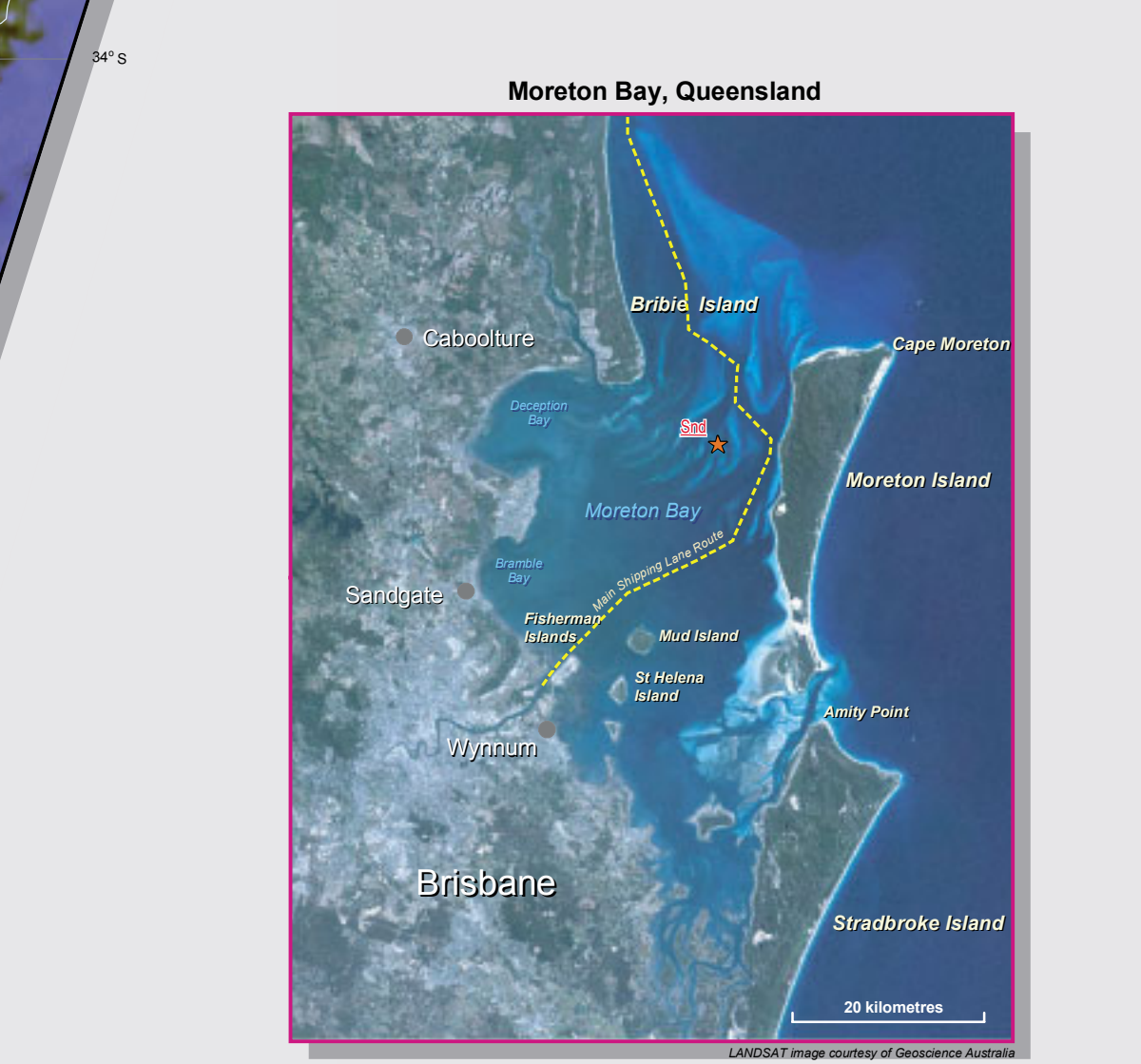
Seabed sampling in the SW Pacific



Seabed sampling in the SW Pacific



Dredging operation in the SW Pacific



Moreton Bay, Queensland

Sand from main shipping line dredged and utilised in
building and construction industry

Information sources: Geoscience Australia's Minerals and Petroleum and Marine Divisions, and CSIRO's Wealth
from Oceans National Research Program and Division of Exploration and Mining with co-contributions from
New South Wales Department of Primary Industries - Mineral Resources, Department of Primary Industries -
Geoscience Victoria, Department of Infrastructure, Energy and Resources - Mineral Resources, Northern Territory
Department of Primary Industries and Resources South Australia - Minerals and Energy Resources, Department of
Industry and Resources - Geological Survey of Western Australia, Northern Territory Department of Primary
Industry, Fisheries and Mines, Department of Natural Resources, Mines and Water - Geological Survey of Queensland
Contributors: W. Markey, T. McClelland, G. Mueller, J. Whitbread, Y. Wozniak, K. Purdie, N. Salt, L. Dunn,
Adrian, N. Egan, P. Symonds

Cartography: G.A. Young

The colour-gridded bathymetric image that forms the background of this map was derived from the
Australian Bathymetry and Topography Grid June 2005, Geoscience Australia Record 2005/12

Feedback welcome:
Errors or omissions are discovered on the map please advise via the map amendments page on the Australian
Marine Spatial Information System website or email: feedback@gsa.gov.au or send an annotated map to Geoscience
Australia

It is recommended that this map be referred to as CSIRO/Geoscience Australia, 2006, Australian Offshore Mineral
Locations First Edition (1:10 000 000 scale map) Geoscience Australia, Canberra

The offshore mineral locations shown on this map can be viewed via the Australian Marine Spatial
Information System (AMIS) at: <http://www.gsa.gov.au>

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Queensland Government
Natural Resources, Mines and Water

Government of South Australia
Primary Industries and Fisheries

Western Australian Government
Department of Primary Industries

Tasmania
Department of Primary Industries

WEALTH FROM OCEANS
FLAGSHIPS

Australian Offshore Mineral Locations
First Edition
2006