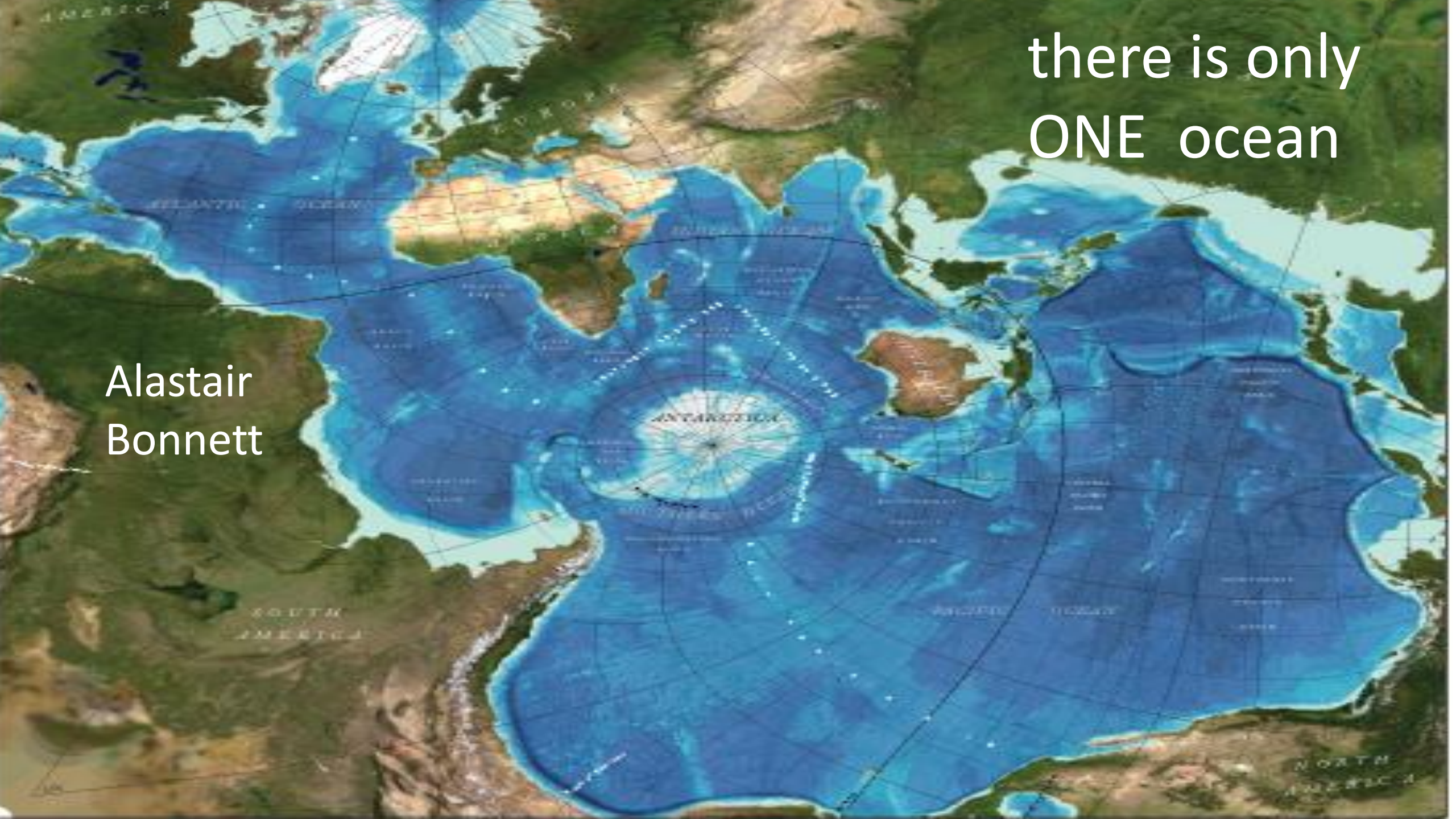
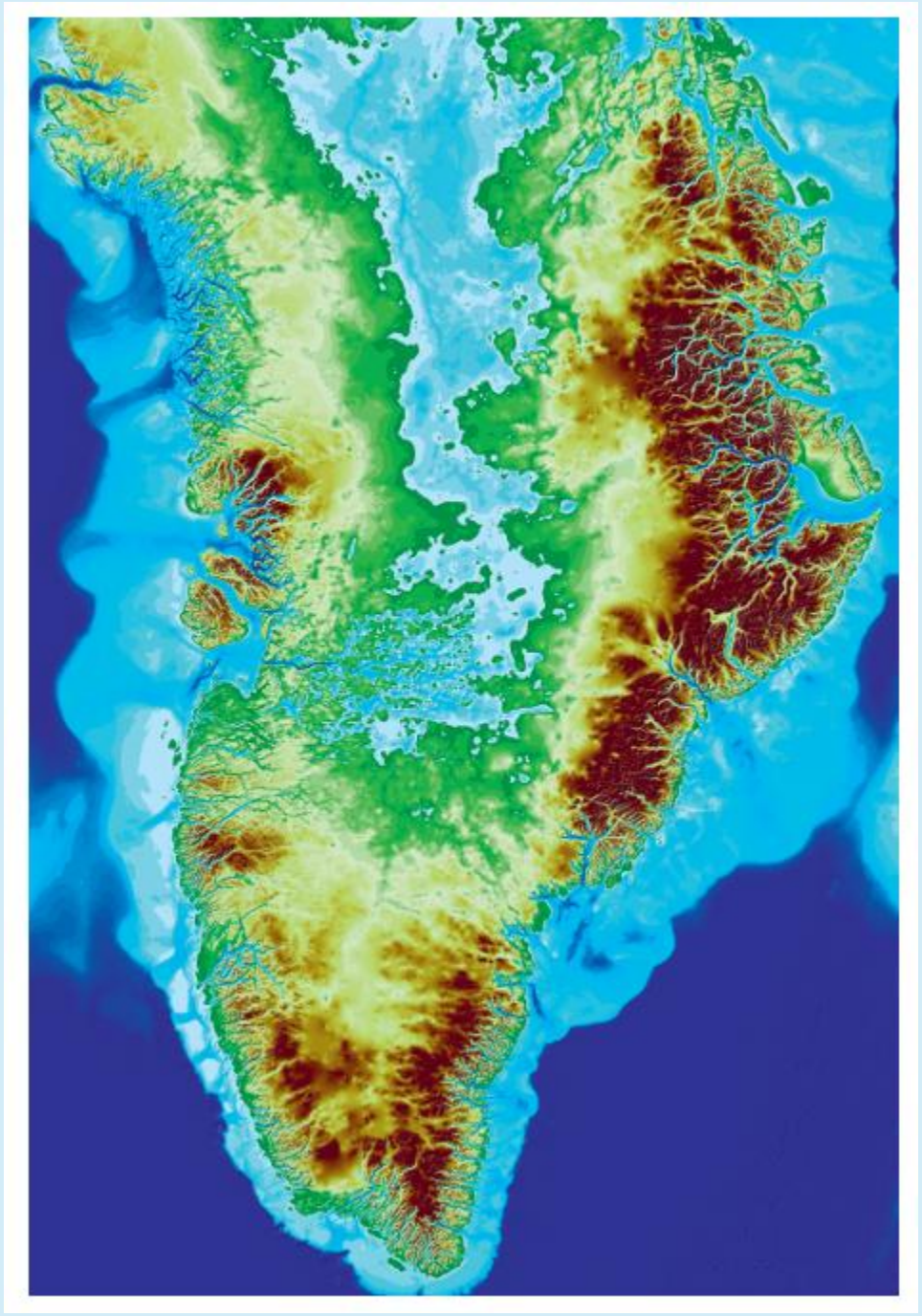

there is only
ONE ocean
Alastair
Bonnett

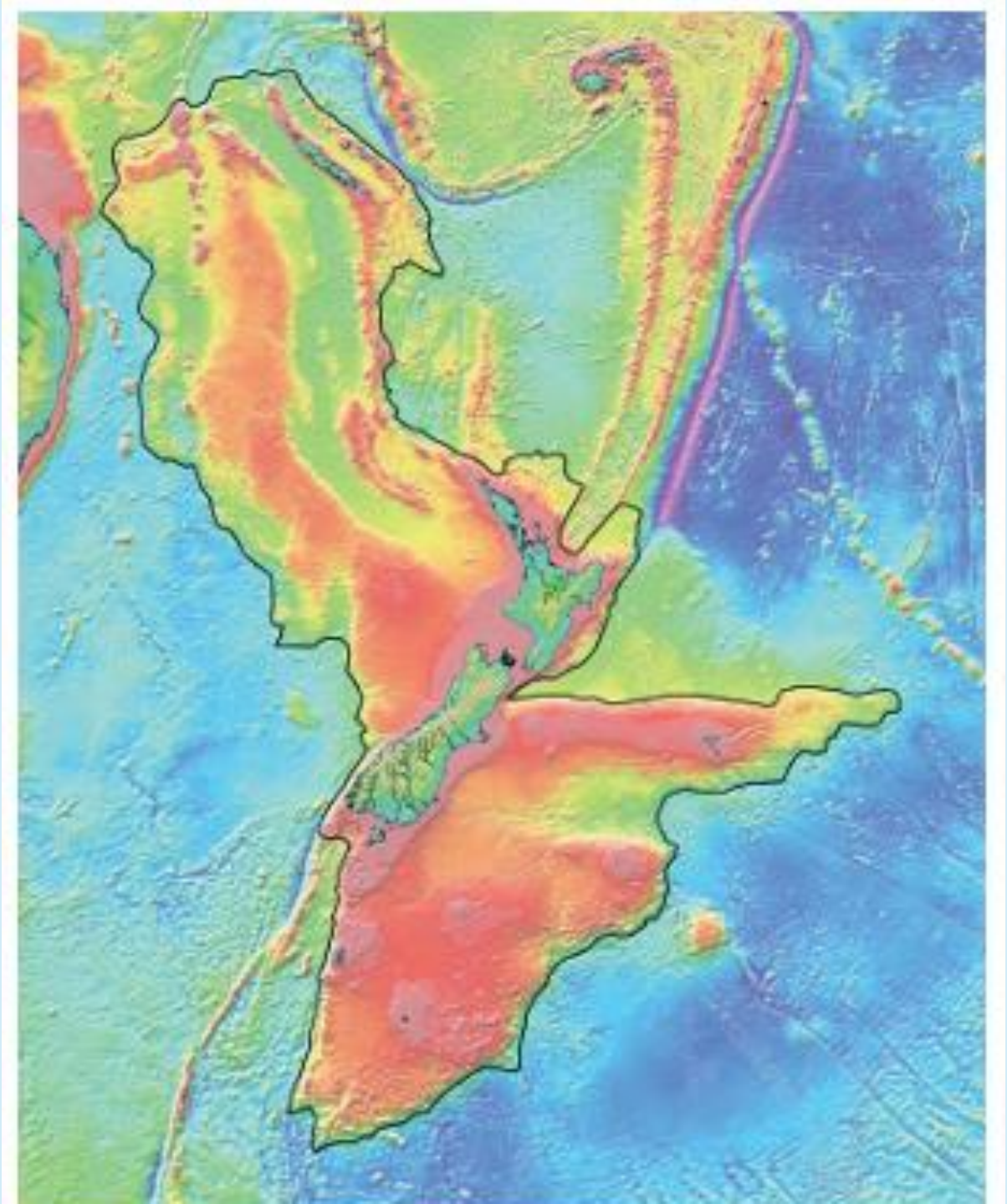
new maps
new borders
new islands
the next fifty years

new maps



Complete Bed Topography and Ocean Bathymetry Mapping of Greenland, M. Morlighem et al, 2017

Zealandia



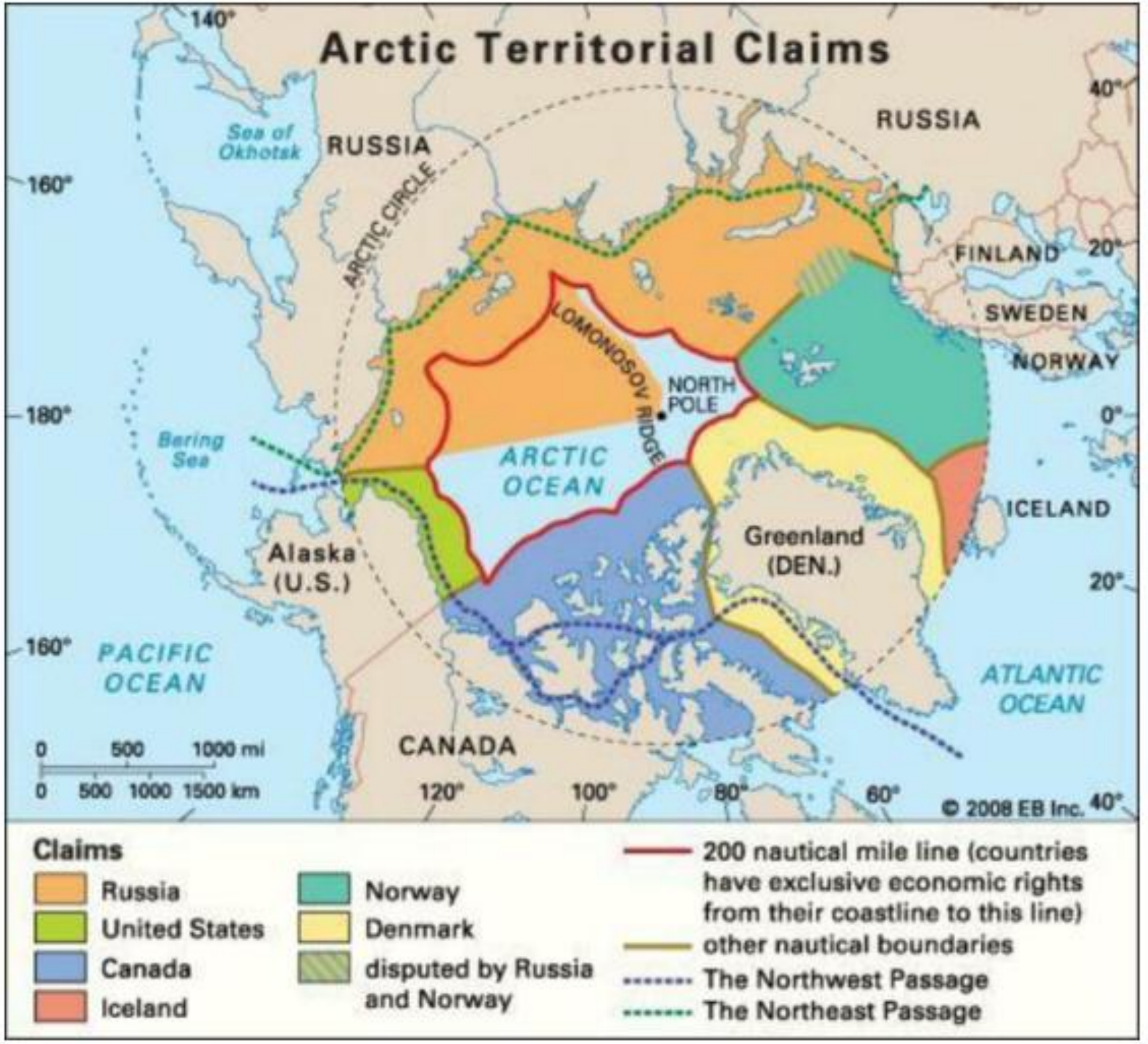
Europe
After 80-metre Rise in Sea Level



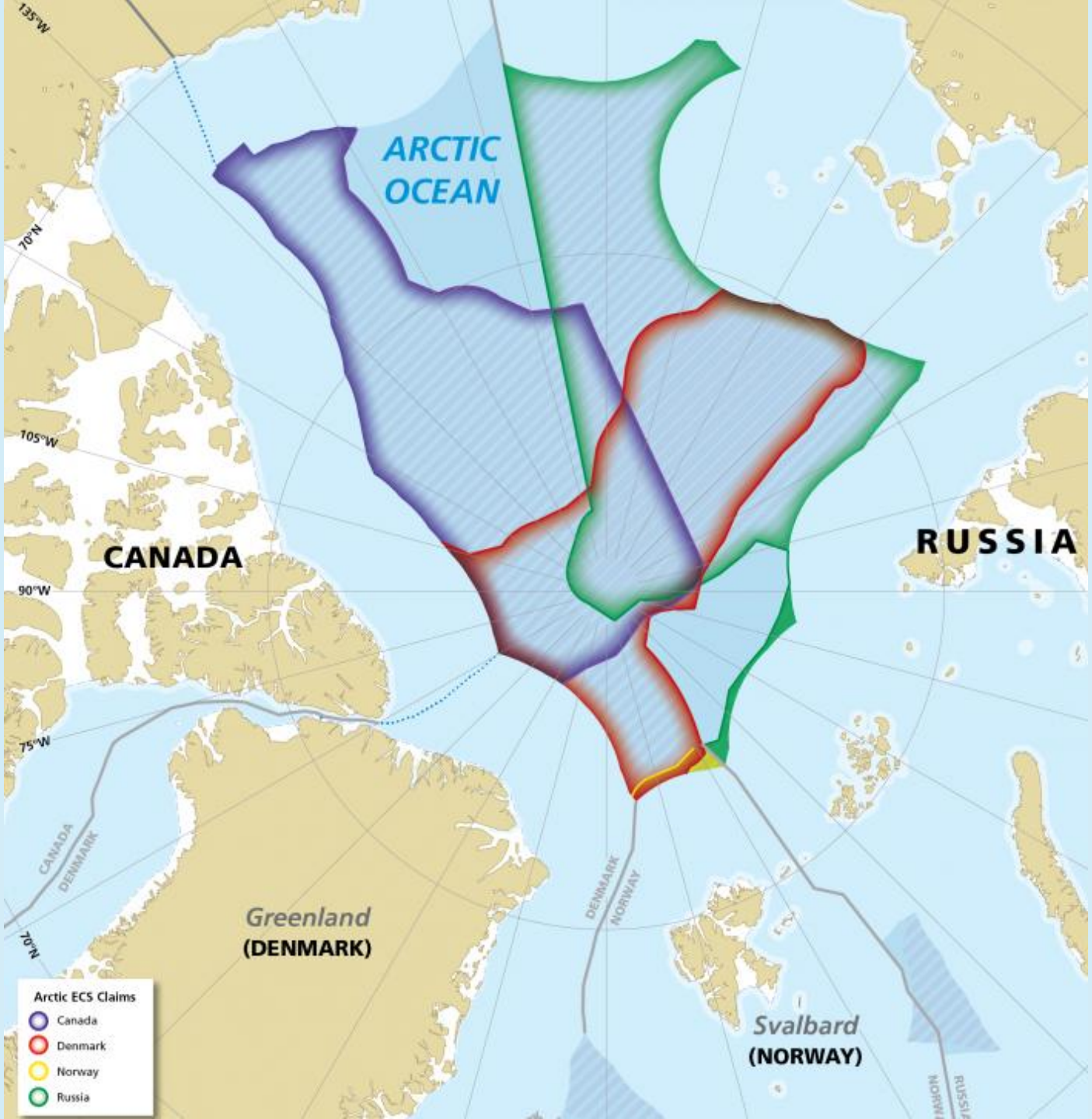
New borders

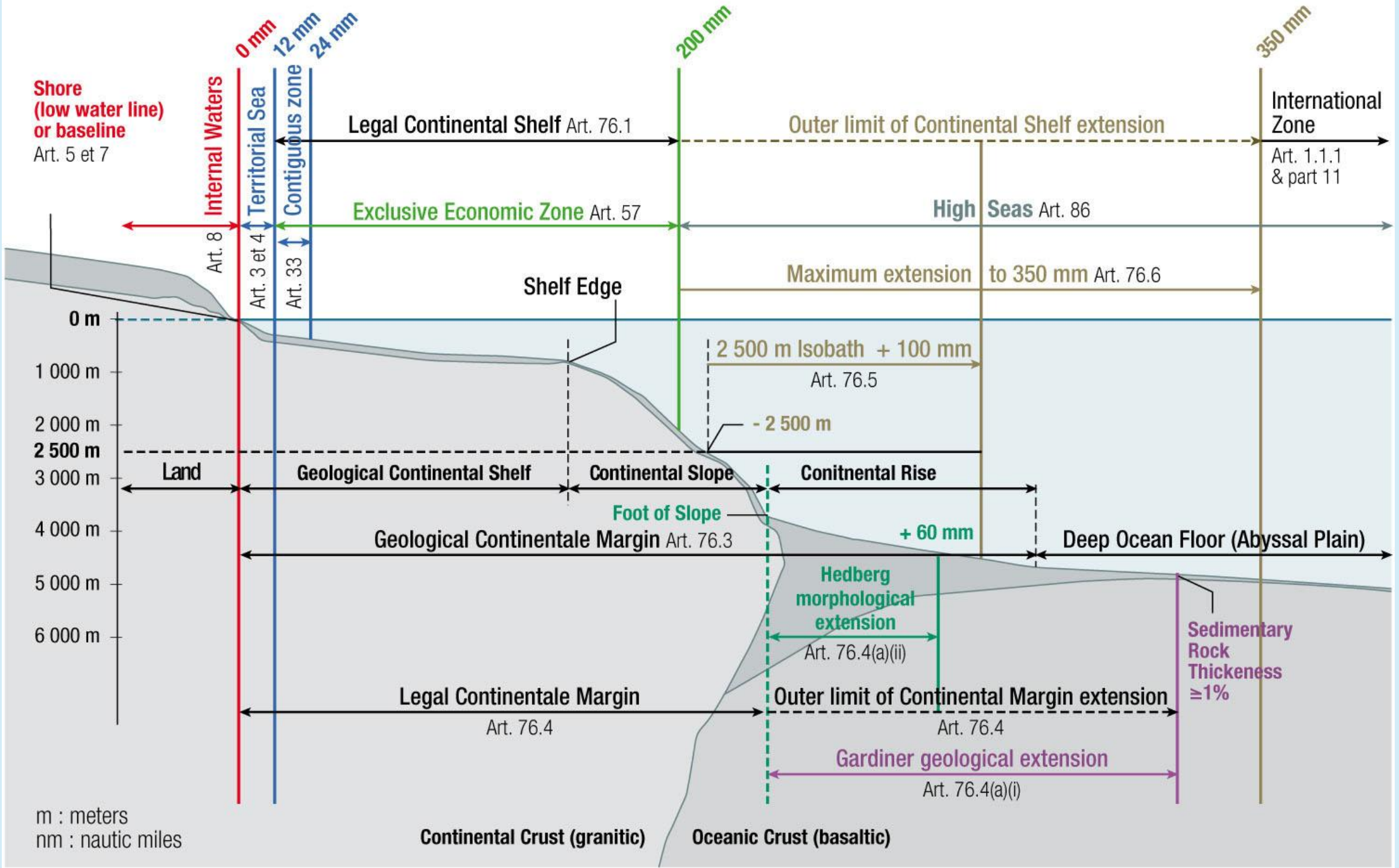
Russian flag, depth 4261 metres
Geographic North Pole




Arctic Territorial Claims
RUSSIA
RUSSIA
Sea of Okhotsk
ARCTIC CIRCLE
FINLAND
SWEDEN
NORWAY
LOMONOSOV RIDGE
NORTH POLE
ARCTIC OCEAN
Bering Sea
ICELAND
Greenland (DEN.)
Alaska (U.S.)
PACIFIC OCEAN
ATLANTIC OCEAN
CANADA
140°
160°
180°
160°
40°
20°
0°
20°
40°
120°
100°
80°
60°
0 500 1000 mi
0 500 1000 1500 km
© 2008 EB Inc.
Claims
Russia
United States
Canada
Iceland
Norway
Denmark
disputed by Russia and Norway
200 nautical mile line (countries have exclusive economic rights from their coastline to this line)
other nautical boundaries
The Northwest Passage
The Northeast Passage

Extended continental shelf (ECS) claims on high Arctic



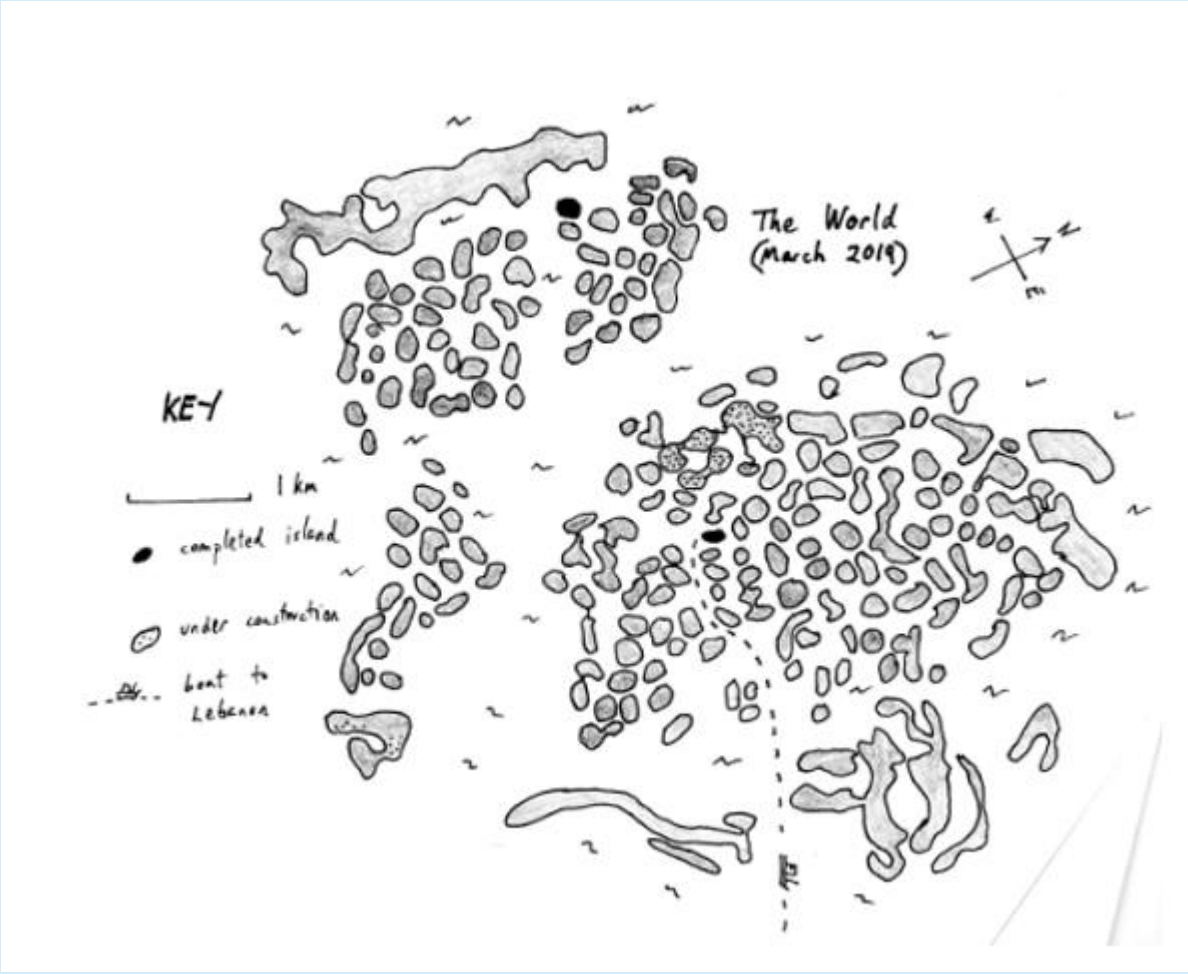

0 mm
12 mm
24 mm
200 mm
350 mm
Shore
(low water line)
or baseline
Art. 5 et 7
Internal Waters
Territorial Sea
Contiguous zone
Legal Continental Shelf Art. 76.1
Outer limit of Continental Shelf extension
International Zone
Art. 1.1.1 & part 11
Exclusive Economic Zone Art. 57
High Seas Art. 86
Art. 8
Art. 3 et 4
Art. 33
Maximum extension to 350 mm Art. 76.6
Shelf Edge
0 m
1 000 m
2 000 m
2 500 m
3 000 m
4 000 m
5 000 m
6 000 m
2 500 m Isobath + 100 mm
Art. 76.5
- 2 500 m
Land
Geological Continental Shelf
Continental Slope
Conitnental Rise
Foot of Slope
+ 60 mm
Geological Continentale Margin Art. 76.3
Deep Ocean Floor (Abyssal Plain)
Hedberg morphological extension
Art. 76.4(a)(ii)
Sedimentary Rock Thickeness ≧1%
Legal Continentale Margin
Art. 76.4
Outer limit of Continental Margin extension
Art. 76.4
Gardiner geological extension
Art. 76.4(a)(i)
m : meters
nm : nautic miles
Continental Crust (granitic)
Oceanic Crust (basaltic)

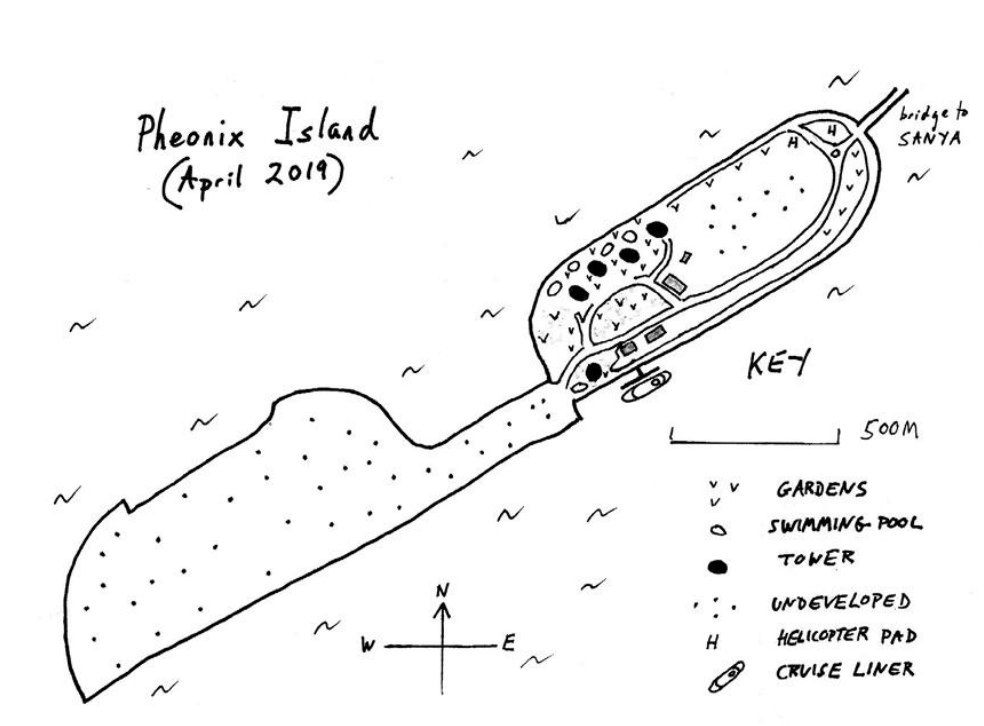


New islands



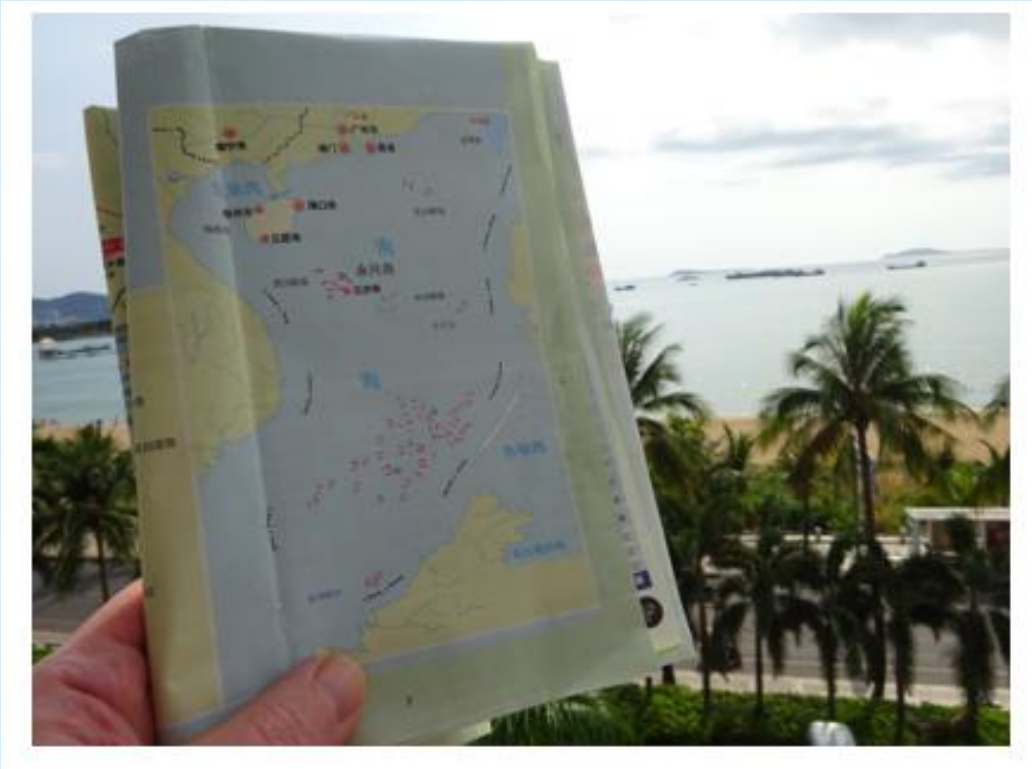
‘The World’ islands, Dubai

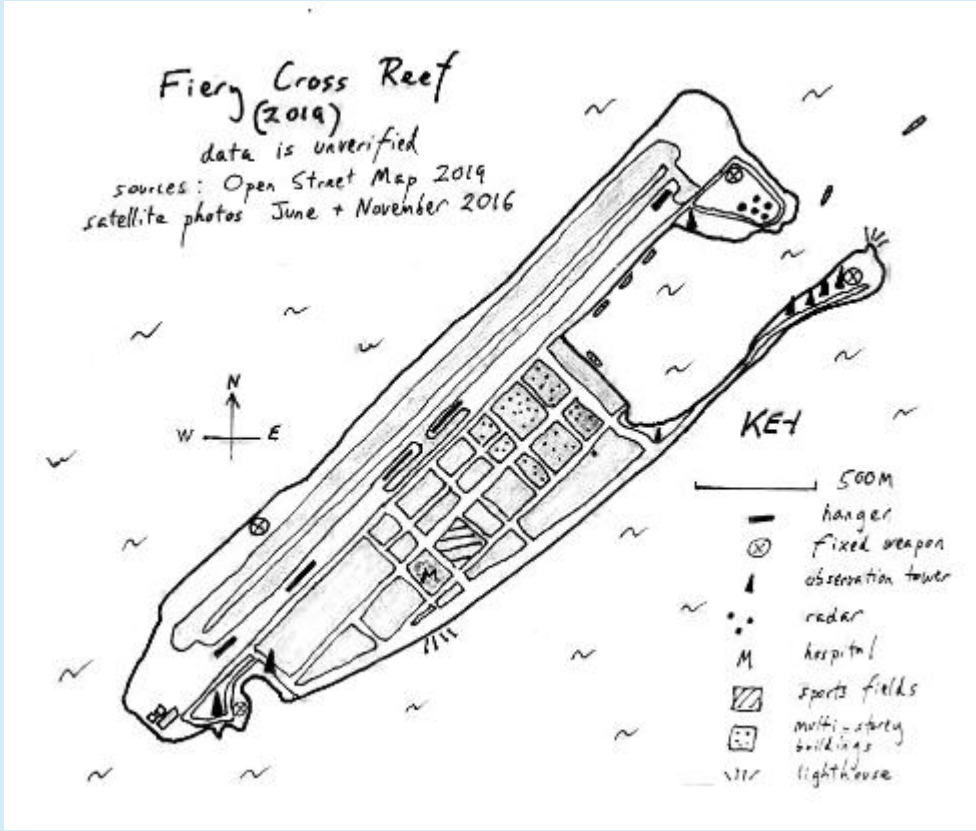






Pheonix Island, Sanya Bay





‘South China Sea’ from beach at Sanya
and Fiery Cross Reef

The next fifty years



More maps, more borders, more islands

The limits of unilateralism

The ‘law of the sea’: does it have a future?