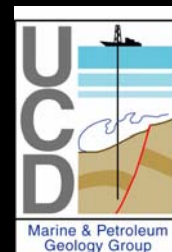


# Characterisation of the Porcupine High using shallow cores (MeBo) – Project IS06/10



J. Stephen Daly, Shane Tyrrell, Peter D.W. Haughton, Patrick M. Shannon, Eszter Badenszki, Lee Toms and David Chew

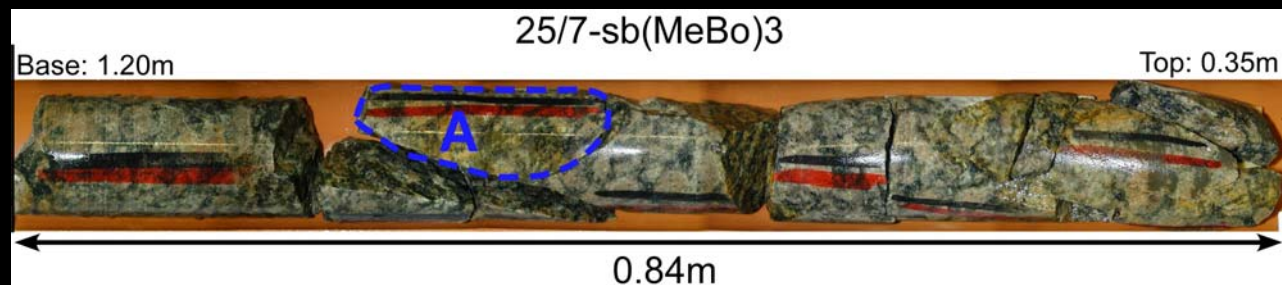
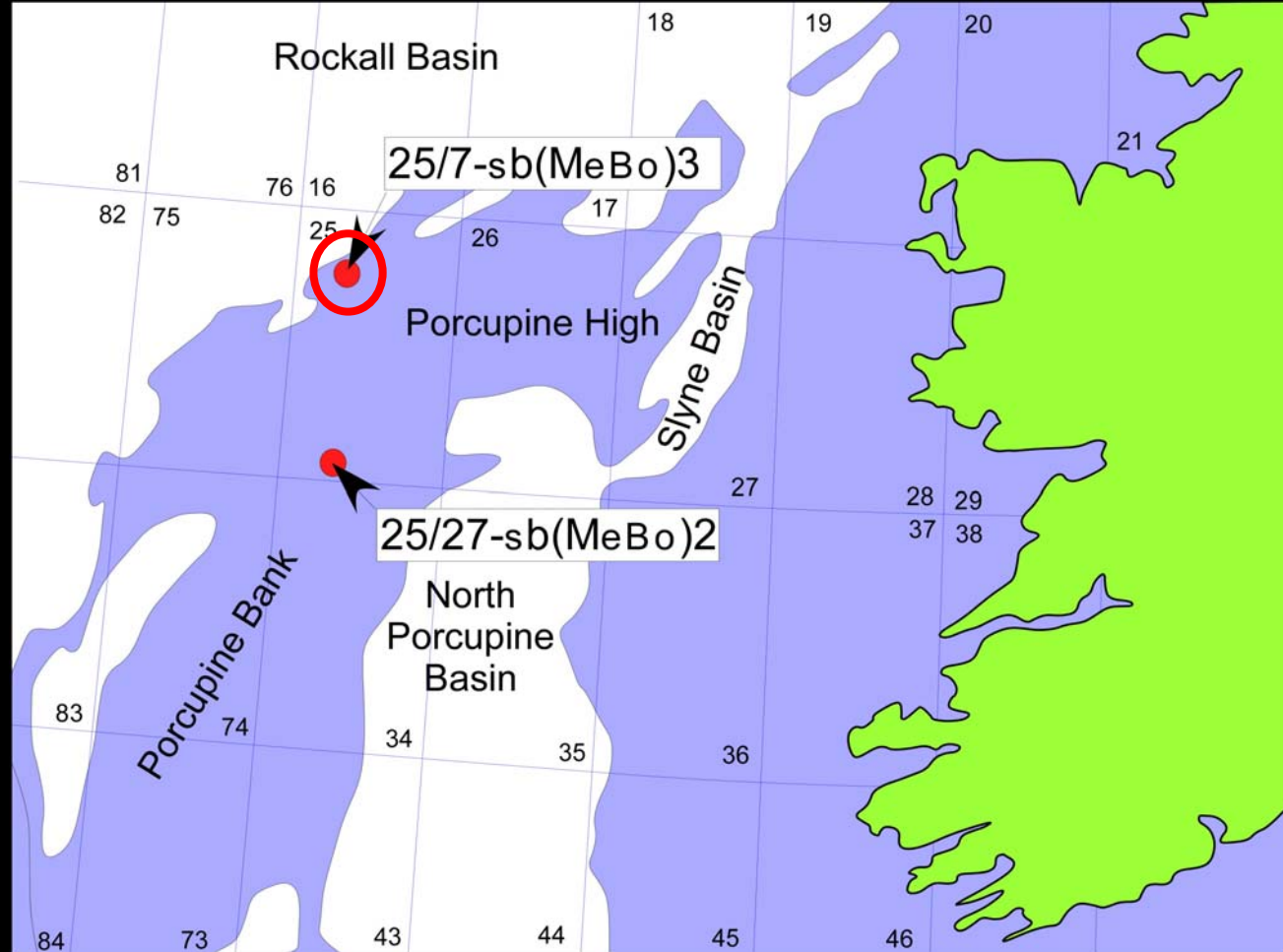


In situ granitic  
orthogneiss

Granulite facies  
metamorphism

U-Pb zircon geochronology  
dates the magmatism at  
**1314Ma** (Mesoproterozoic)  
– Not previously  
recognised in the region

Porcupine High a source  
for one of two dominant  
detrital K-feldspar  
populations in Upper  
Jurassic sandstones in  
the northern Porcupine  
Basin





2.92 metres  
of core



5.66m  
Top of core



Comprises cobbles and boulders (metamorphic) with *in-situ* limestones and unconsolidated calcareous sands



**Planktonic Foraminifera:** Dominated by the cold water indicator species - *Neogloboquandria pachyderma* (sinstral) and *Globigerinoides bulliodes*.

**Benthonic Foraminifera:** A few species of benthonic foram from the Genus *Cibicides* & *Brazilina*.

**Calcareous nannofossils:** *Gephyrocapsa muelleri*, *Gephyrocapsa oceanica* & possibly *Emiliana huxleyi*.

Implies Late Quaternary in age. *Emiliana huxleyi* indicates sediments are no older than ~300, 000 years.