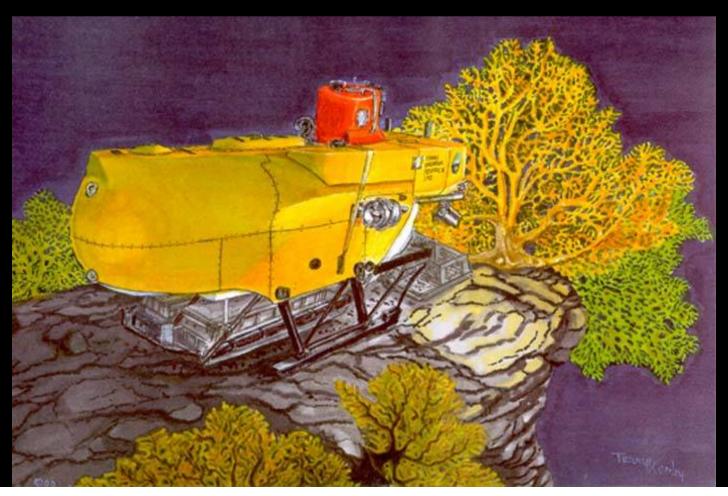
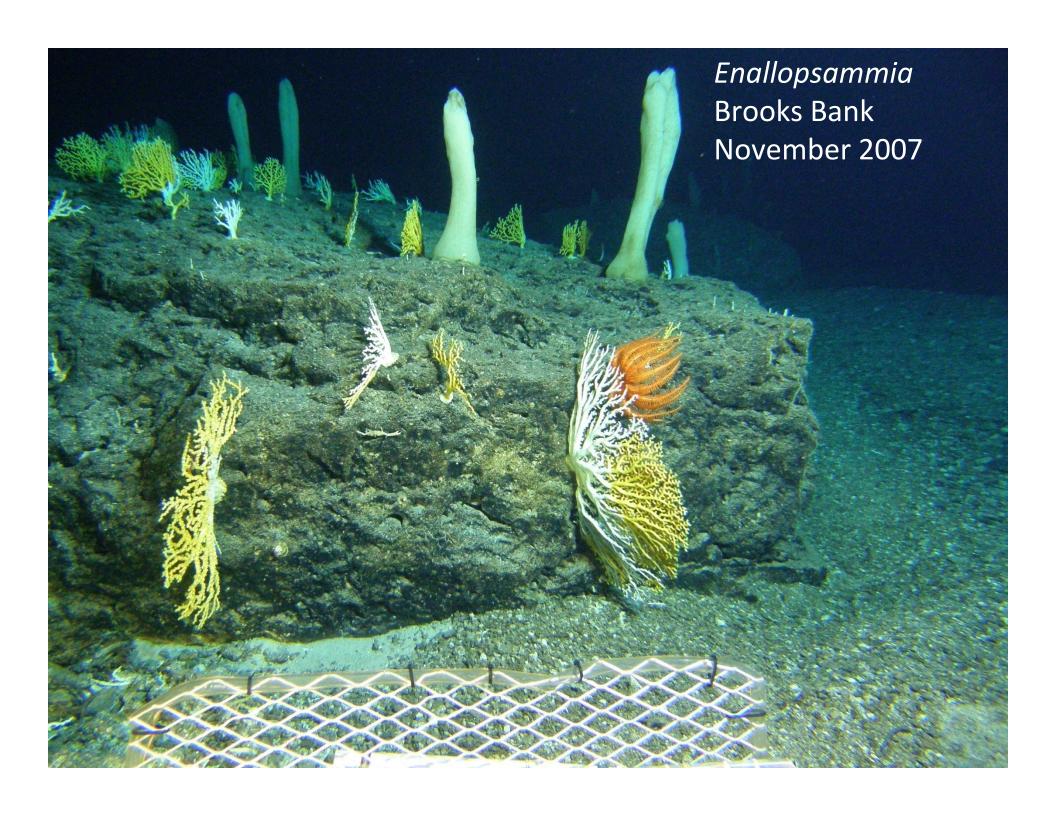


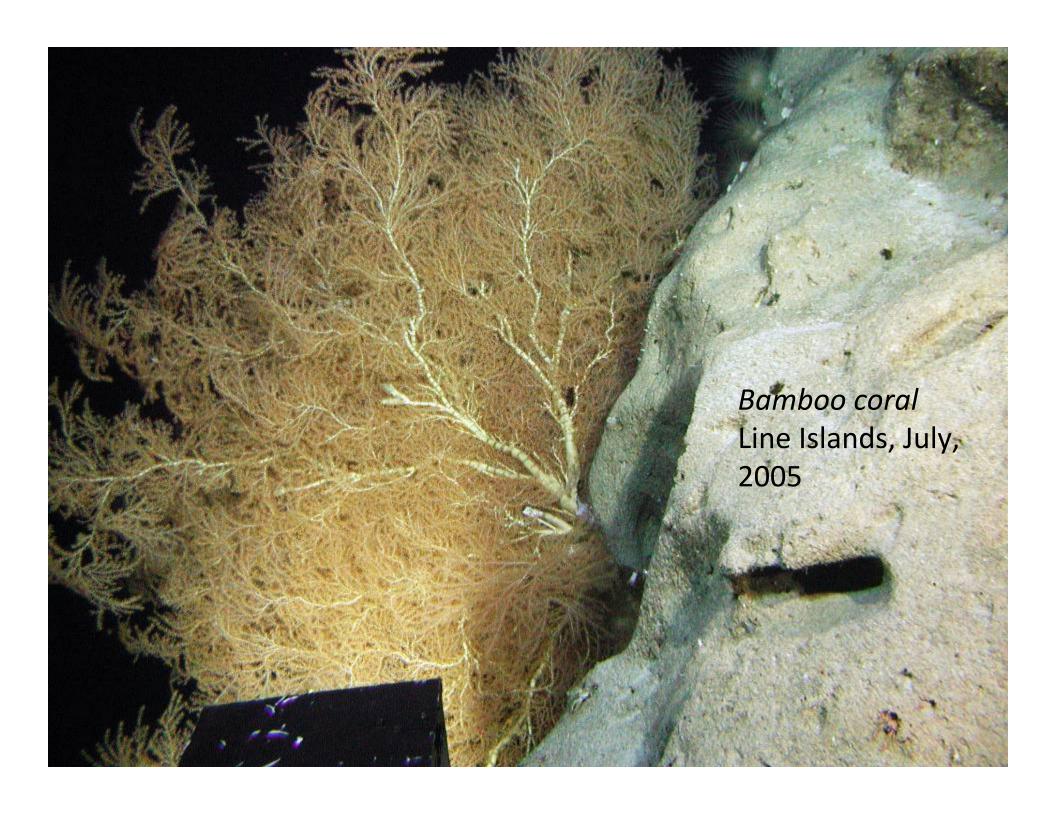
Deep Sea Corals

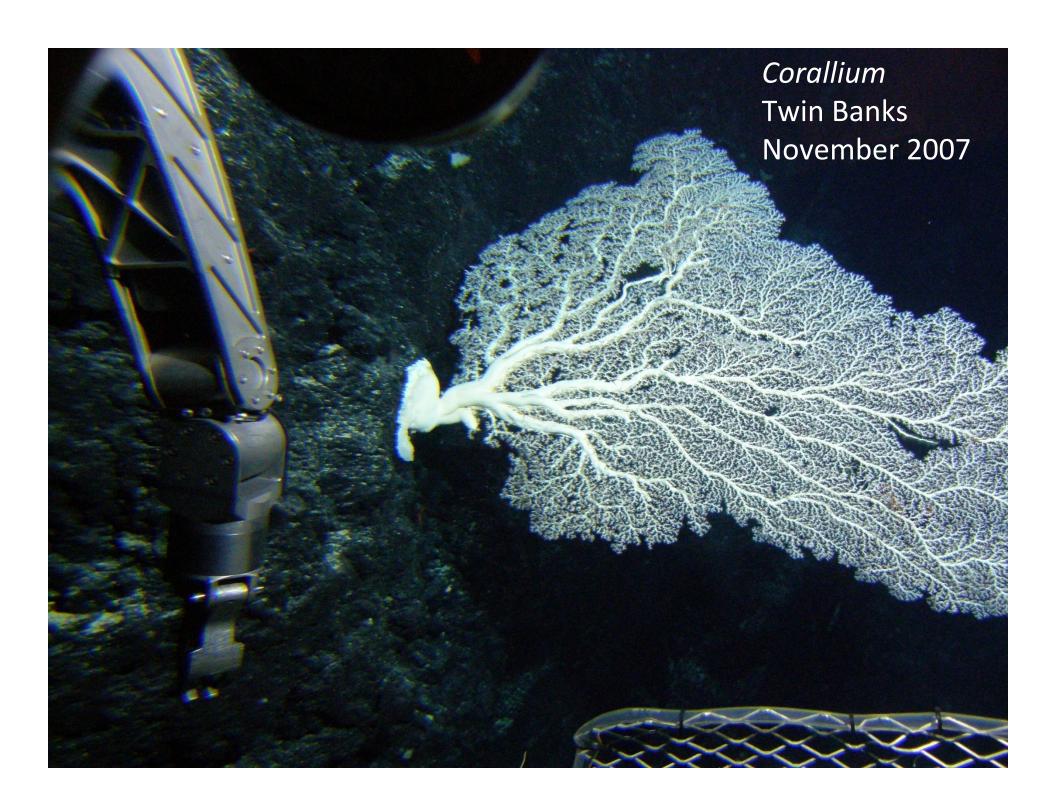
Abundant on hard substrates between 1300 and 300 m Extreme Longevity – colonies can be 1000's of year old Archives of Ocean Circulation, Ventilation, Productivity Life on vertical walls – recycling with upper ocean food webs

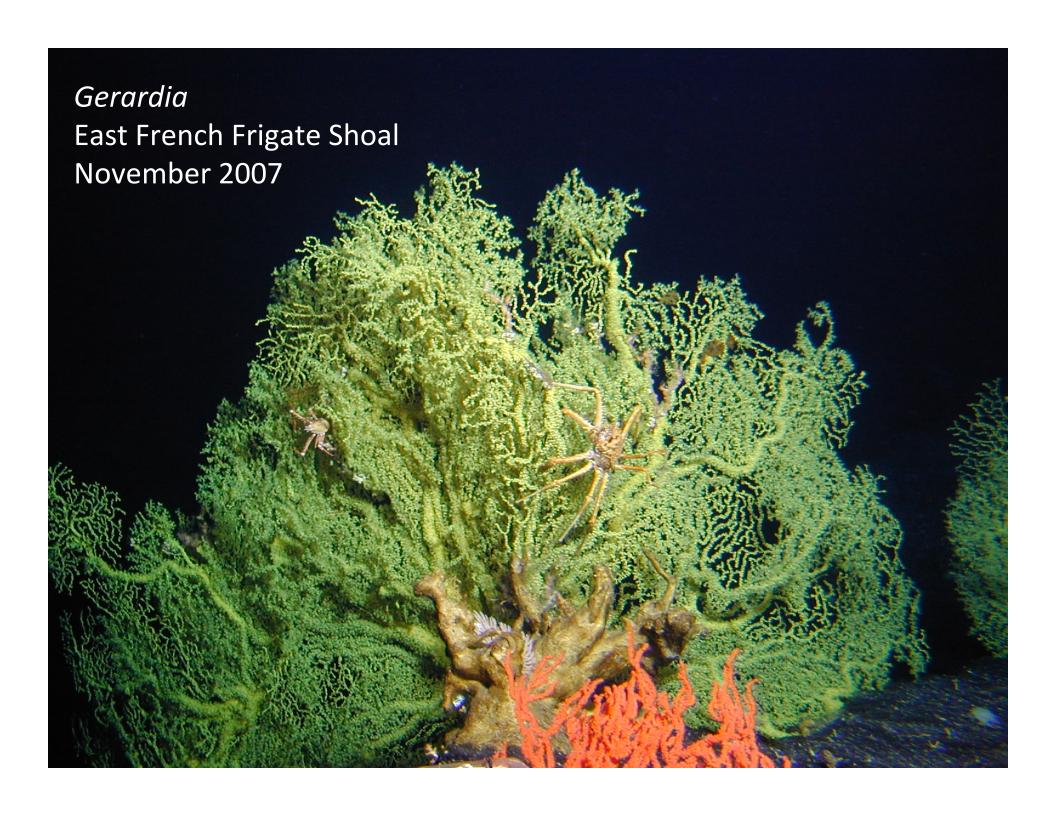


Pisces V
Painting by
Terry Kerby

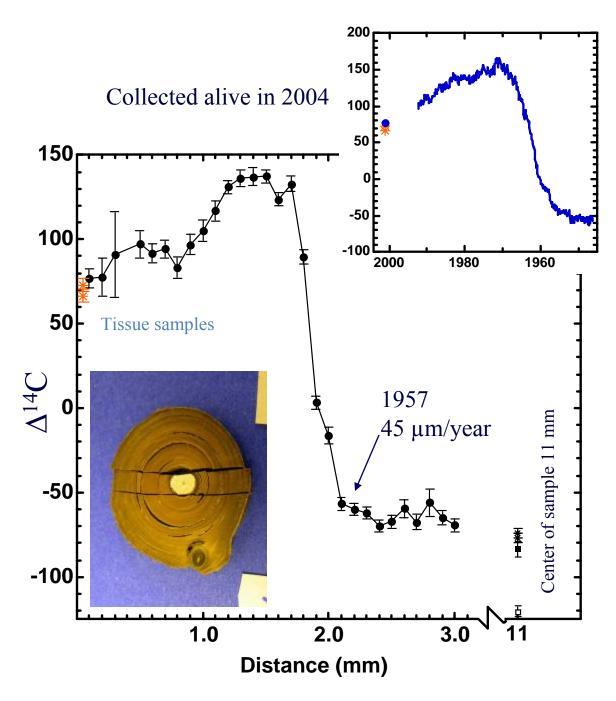




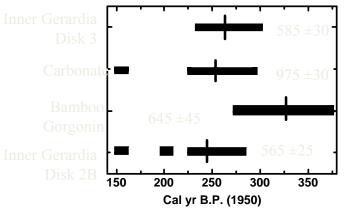








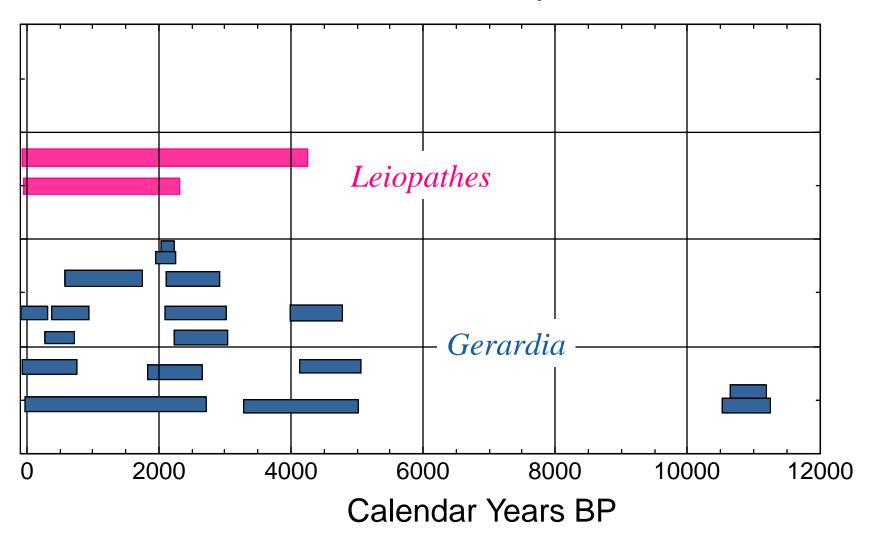




Inner *Gerardia* 585 ±30 ¹⁴C years 240-300 cal yr B.P. (1950) med. prob. 260

314 calendar years 35 µm/year

Twilight Zone Protinaceous Deep-Sea Corals Live Centuries to Millennia, not decades.



Deep Sea Corals

Collected live, subfossil and fossil corals

Some specimens may be in excess of 10,000 years old

Developing tracers of ocean ventilation (paired U/Th and ¹⁴C)

Also tracers of ocean temperature and C flux

Opens ocean interior to high resolution paleo studies

Tremendous interest by many research groups

The big unknown? South Pacific and Southern Ocean.....