

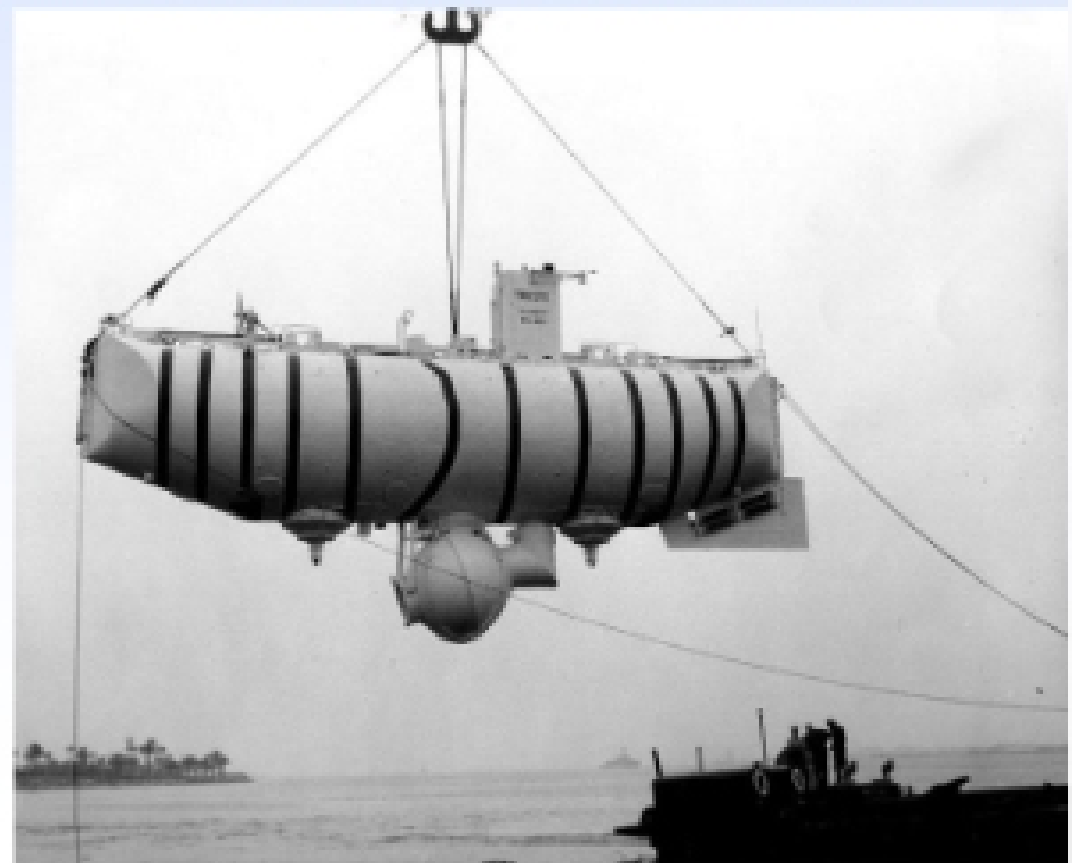
# Pelagic Deep-Sea MARS 3450

24 September, 2013

Bathyscaphe Trieste, 1960  
Jacques and Auguste Piccard



William Beebe and Otis Barton 1930



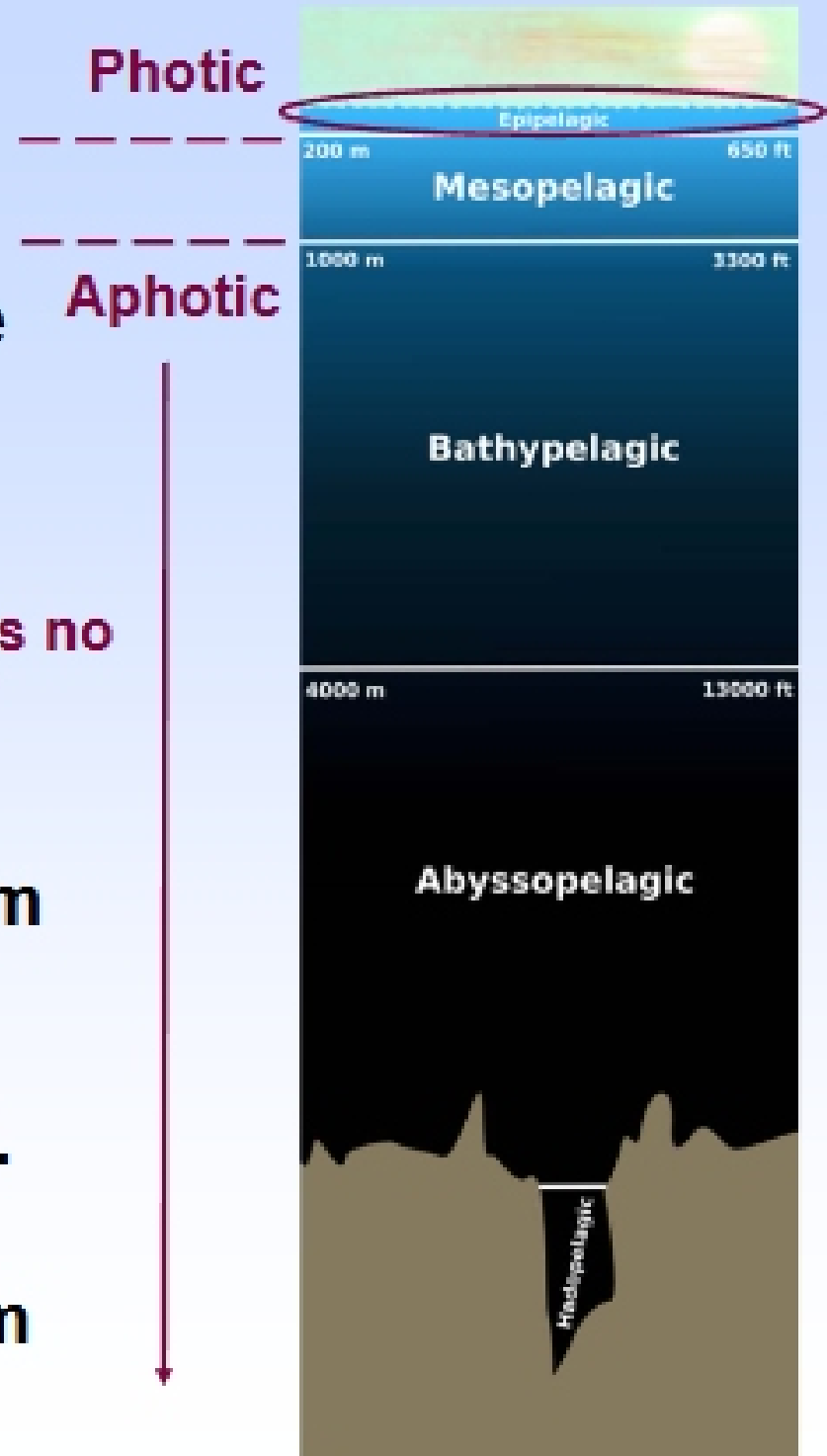
# Pelagic Deep Sea

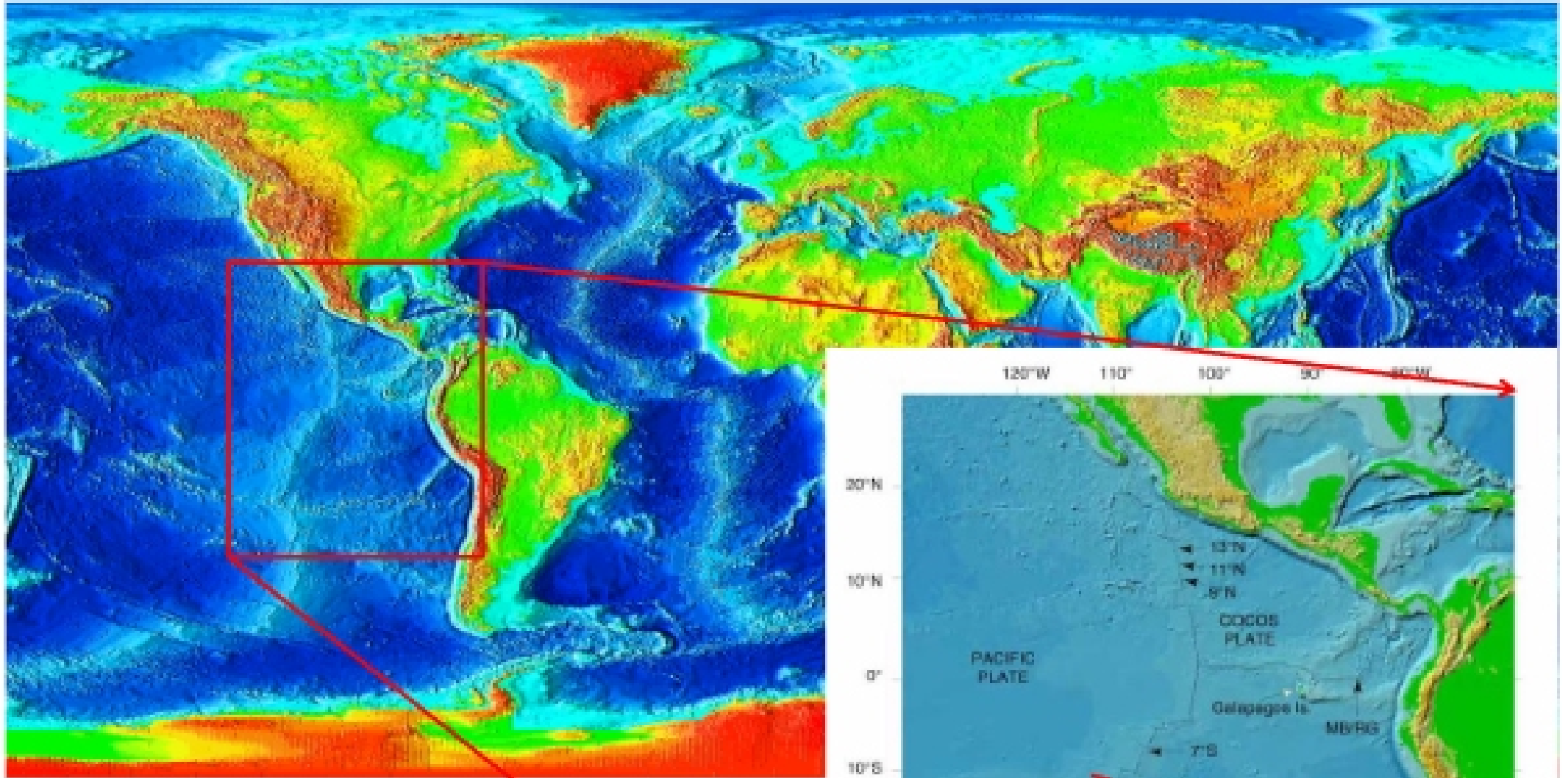
**Definition:** The marine environment that lies below the light level necessary for photosynthesis, exclusive of continental shelves

Begins where light is no longer sufficient for photosynthesis

- **Mesopelagic:** upper aphotic; light still present; 200-1000 m
- **Bathypelagic:** no light; 1000-4000 m
- **Abyssalpelagic:** no light; 4000-6000 m
- **Hadalpelagic:** no light; >6000 m

Trenches





Sea Floor Topography

Mid-ocean ridge  
 Transform Fault  
 Trench