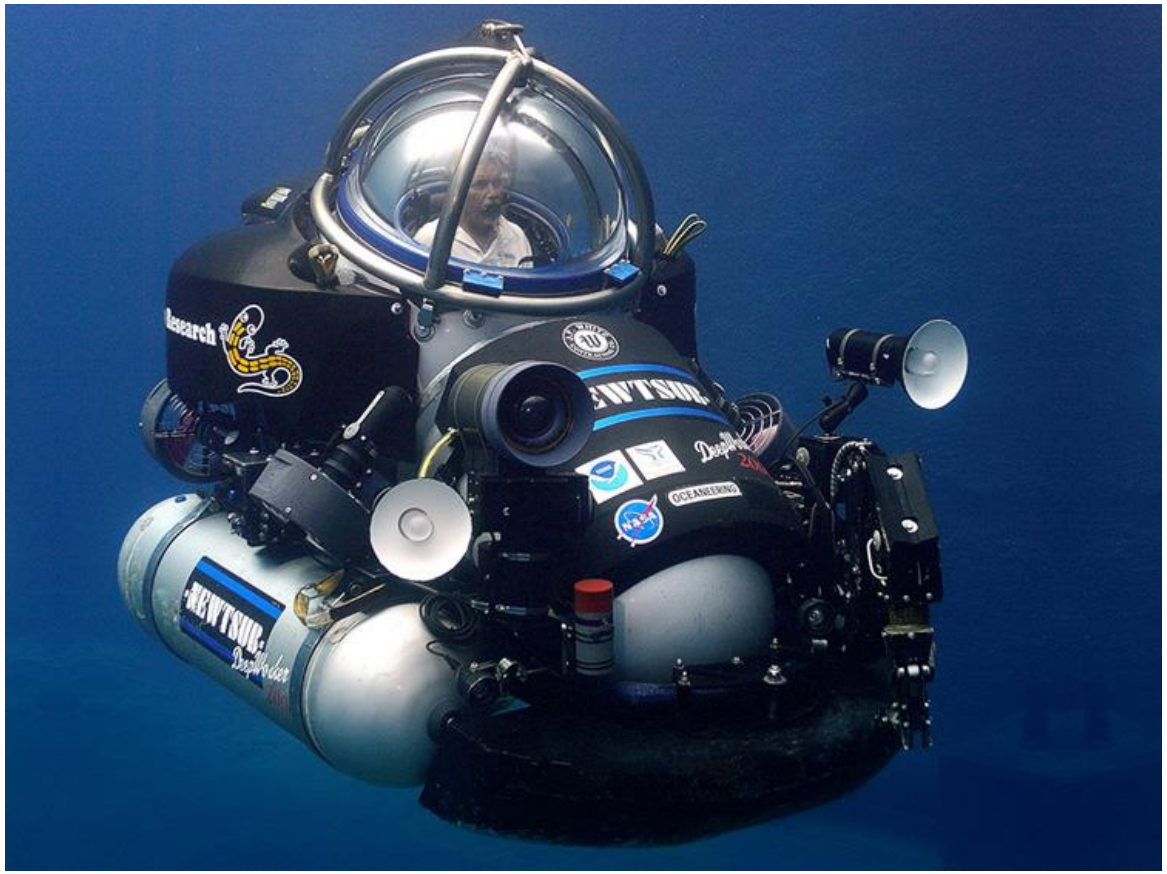
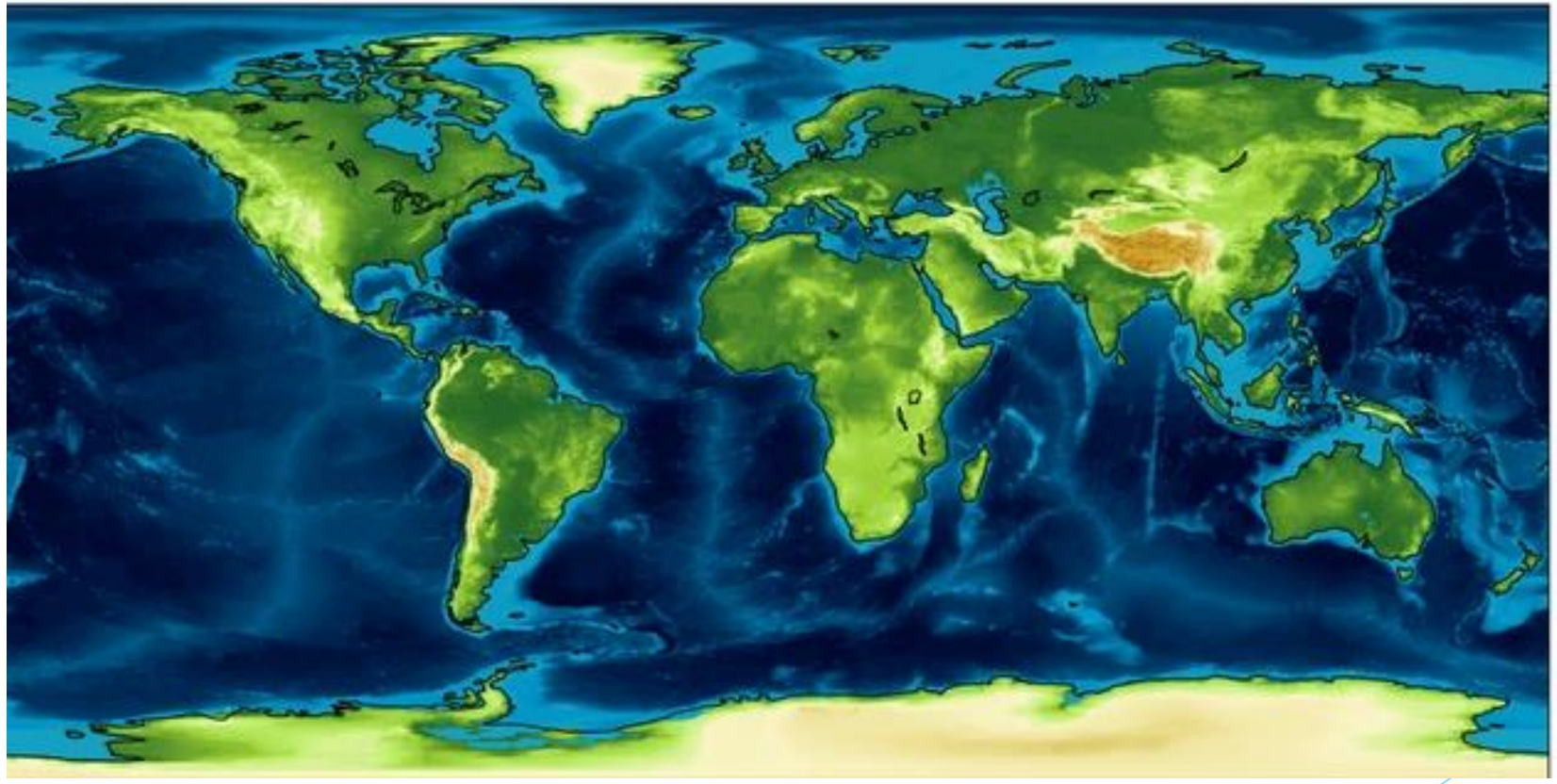


NOAA

Exploring the Oceans

The darkest blue shows the deepest part of the ocean

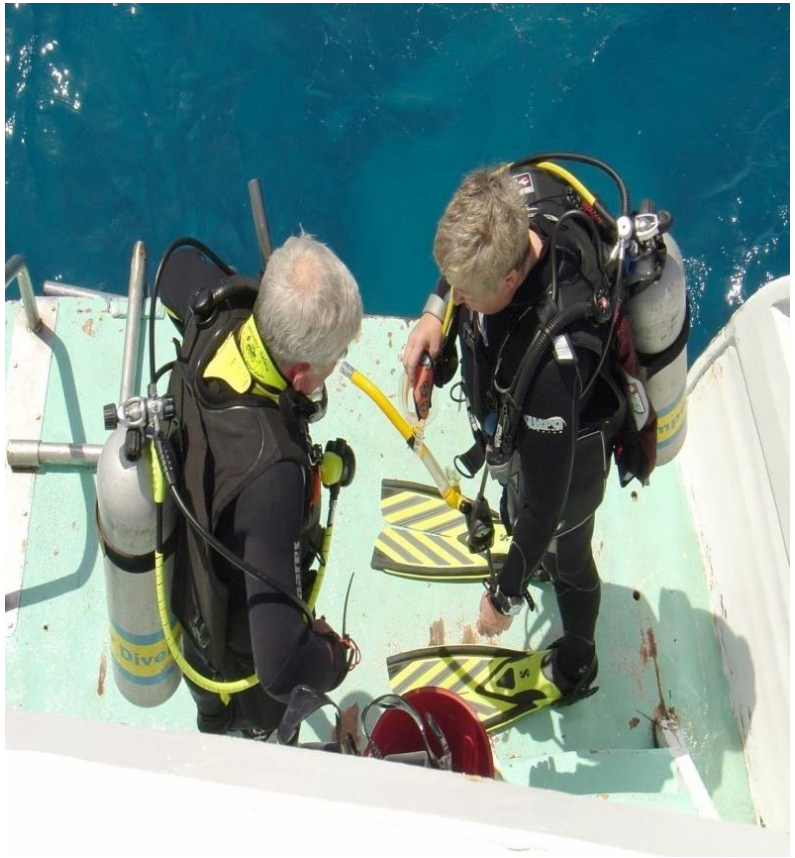


NOAA image

66% of the Earth is covered with water that is more than 100 m deep.

Why is this important?

Scuba divers need special equipment



- Fins
- Mask
- Weights
- Buoyancy aid
- Immersion suits
- Breathing apparatus

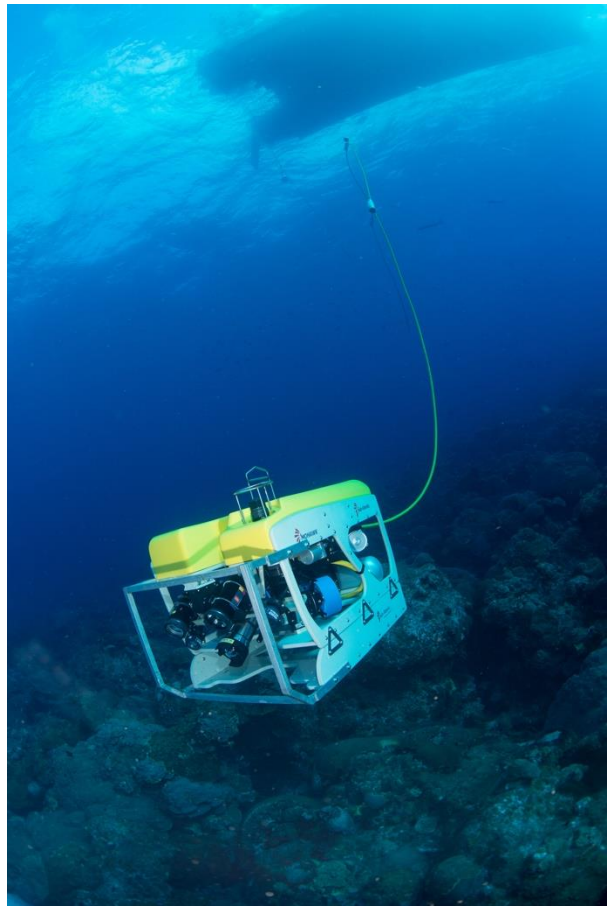
BUT

Divers can only dive safely to 30-40 metres

The Marine Environment

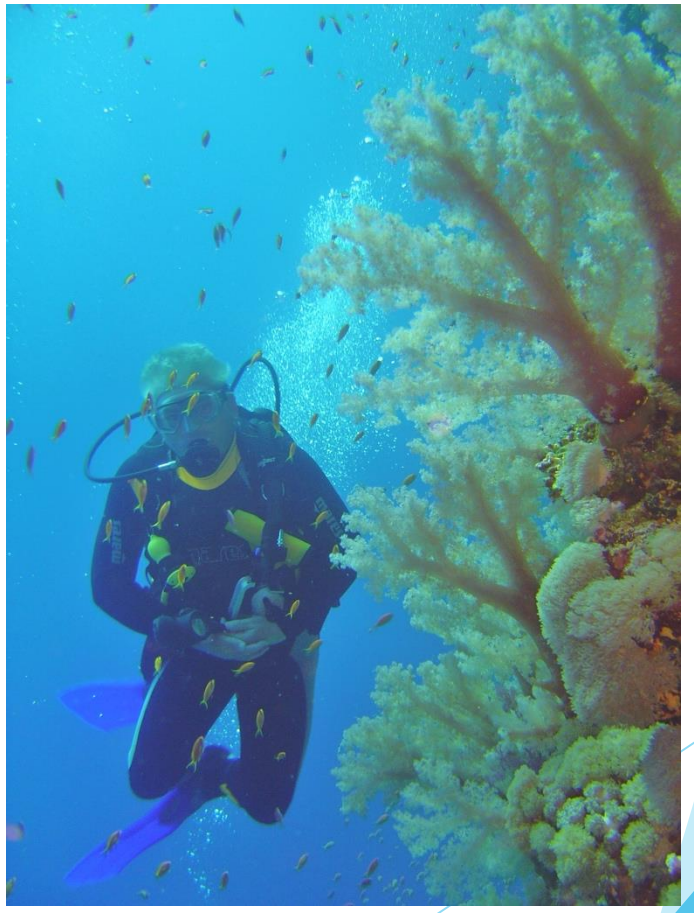
- Lacks oxygen
- Lacks light
- Has intense pressures
- Gets colder at depth
- Predators & prey live close together
- Dangerous creatures

Which one is safer? Why?



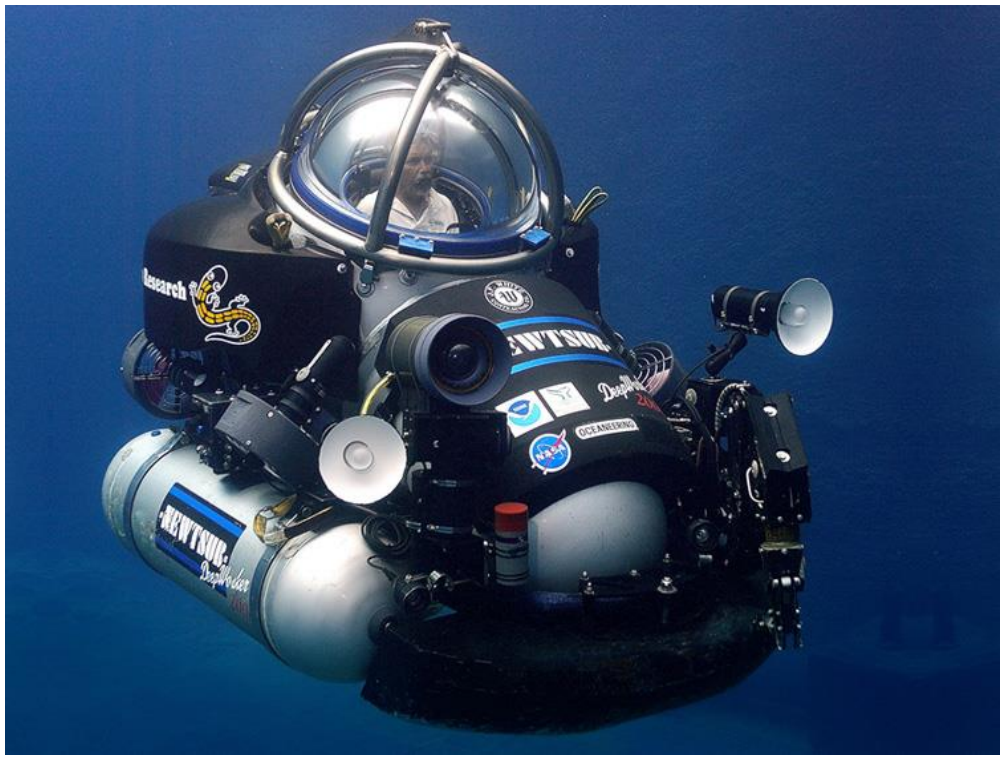
NOAA

500 metres down



25 metres down

Submersibles



NOAA

What will you want to look at?

Wreck

Turtle

What's it like underwater?

Near the surface?	Deep in the Ocean?
➢ Dim Light ➢ Warm	➢ Dark ➢ Cold

What's it like underwater?

Near the surface?	Deep in the Ocean?
➢ Dim Light ➢ Warm	➢ Dark ➢ Cold

What do you need to take with you?

What's it like underwater?

Near the surface?	Deep in the Ocean?
➢ Dim Light ➢ Warm	➢ Dark ➢ Cold

What do you need to take with you?

Air to breathe, food, water, warm clothing, camera, tools, collection boxes

What is a Robotic Arm?

- What could you collect?
- How difficult is it to use a Robotic Arm?
- Imagine collecting a very weird animal … you mustn't harm it, or take it out of the water. How could you tell the people on the surface what it looks like?
- Describe it to your 'buddy' on the surface.
- Can they draw it from your description.
- Does their drawing look like your weird animal?

Design your own Submersible …..

- How will it move?
- What controls will it have?
- Will you take photographs and video or will you collect things? How?
- Imagine your journey
- Write up your log
- How would you describe your journey?

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