Underwater Technology Discussion

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You will be researching different aspects to underwater technology for this discussion. Please select a specific technology within your assigned category (see below).

Assigned categories are as follows, if your Last name starts with:

- A-B: Scuba diving technology including the Newt Suit, and different gas mixtures.
- C-E: Research Vessels
- F-L: HOV/subs- Research only not military
- **N-M:** ROV
- **O-P:** Platforms, Buoys (i.e. DART) or oceanographic satellites
- S: AUV or gliders
- T-V: Probes and sensors (datasondes, hydrolabs, also see ocean observatories, CTD units, etc...)
- W-Z: Wave, current and/or tidal energy

Please claim your underwater technology, by posting it to the discussion board, so that everyone does something different within your assigned group (for instance each HOV has a name, i.e. Alvin, Johnson Sea link, etc...). Please post name of equipment and type of equipment on this discussion post by ______. Once the specific technology has been claimed you must choose something different- no 2 people can do the same piece of equipment. So Read thru the list of replies before posting!

You must include in-depth details of

- Name of underwater technology and what it is
- Who owns it, how and where it is used,
- The depth range at which it can be used,
- The type of data it can collect
- Pro's and con's of using that specific equipment
- Other interesting facts about the equipment

Remember to cite your sources parenthetically (within the text) using CSE Name-year method and in a sources section (full citation).

Reply to at least 2 other students posts that were assigned a different category and add to their information (remember to cite your sources).

While there is no specific word count to this discussion, you are expected to thoroughly research and describe the technology or equipment. DO NOT PLAGIARIZE information! You should write the discussion in your own words.

Here are some resources to get you started:

- NOAA: http://oceanexplorer.noaa.gov/technology/technology.html
- Ocean Observatories Rutgers University and University of Washington have local observatories

 http://oceanobservatories.org/instruments/
 - http://oceanobservatories.org/research-arrays/
 - http://www.interactiveoceans.washington.edu/
- National Undersea Research Program Aquarius underwater habitat: <u>http://oceanexplorer.noaa.gov/technology/diving/aquarius/aquarius.html</u>
- IODP: <u>https://www.iodp.org/</u>

Rubric for Underwater Technology Discussion:

Claimed U/W technology on Discussion Board	5.0 pts Claimed		pts med after someone e med it	0.0 pts Did not claim			5.0 pts	
Learning Outcome: Spelling and grammar	10.0 pts 1 or less errors	8.0 pts 2-4 errors	-		s nore errors	0.0 pts Reads as a draft		10.0 pts
Learning Outcome: Name of u/w technology and description	10.0 pts Includes name and detailed description of what the equipment is.	8.0 pts Includes name an a general description of equipment	6.0 pts nd name and defi only	name and definition nam		0.0 pts Not inclu	ded	10.0 pts
Learning Outcome: Who owns equipment, where and how it is used	10.0 pts Detailed description of who owns the equipment, how it is used and where it is used	8.0 pts Names who owns with a general description of ho and where equipment is use	with brief description of and where	d how used.	5.0 pts missing 1 of the l components of owner, how or w equipment is use	here	uded	10.0 pts
Learning Outcome: Depth	5.0 pts Depth included with o	detailed constraints	3.0 pts depth included l	3.0 pts depth included but no additional detai			ded	5.0 pts
Learning Outcome: Types of data	10.0 pts Detailed description of the types of data that can be collected with the equipment.	8.0 pts General descrip of types of data collected with equipment	6.0 pts tion Brief descriptypes of data can be collect lacking deta	a that cted, but	3.0 pts only a single data type without detail	0.0 pts not include	d	10.0 pts

Learning Outcome: Pro's and Con's	10.0 pts Includes detailed description of both the pro's and con's of using this u/w tech.	8.0 pts Includes a general description of both pro's and con's of using this u/w/ tech.	7.0 pts Includes a very brief description both pro's and con's of using this u/w/ tech.	descr	les ed iption her a	5.0 pts only inclu a brief pro- con but no both, mor details are required.	ides o o or s ot a re v	.0 pts nly a ingle pro nd con vithout etails.	0.0 pts Not included	10.0 pts
Learning Outcome: Other interesting facts	5.0 pts3.0 pts0.0 ptsIncluded with detailsincluded but lacking detailsnot included							5.0 pts		
Learning Outcome: Reply to 2 students	10.0 pts detailed response to 2 other students with added information	8.0 pts 2 replies w General informatio added - a k more detai needed	other son but lac bit adding	ed to 2 students eked g any onal	to 2single reply with some addedsingle was was informationyinformationor of information		was no	reply that t detailed not add ation	0.0 pts No replies	10.0 pts
Learning Outcome: Parenthetical Citations	10.0 pts proper in-text citations, that correlate to sources section	8.0 pts proper in citations only min , that cor sources s	n-textProvidewithcitalor errorsa foror errorsa foror errorstododo	extProper in-textinithcitation with onlycierrorsa few errors butnlate todo not correlate			3.0 pts0.0 ptsimproper in-textno in-text citations/citations using footPlagiarism!			
Learning Outcome: Sources Section/ Citations	correlate to couple o parenthetical errors a		es cited rly with only a e of minor s and correlate enthetical	y with only a properly of minor errors bu nd correlate correlate thetical parenthe		meth	rect on od or ple erro n	plagia	urces cited/	10.0 pts
Learning Outcome: Discussion post completed on time	5.0 pts0.0 ptsFull MarksNo Marks							5.0 pts		