

12 Nov 91

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15 Nov 91

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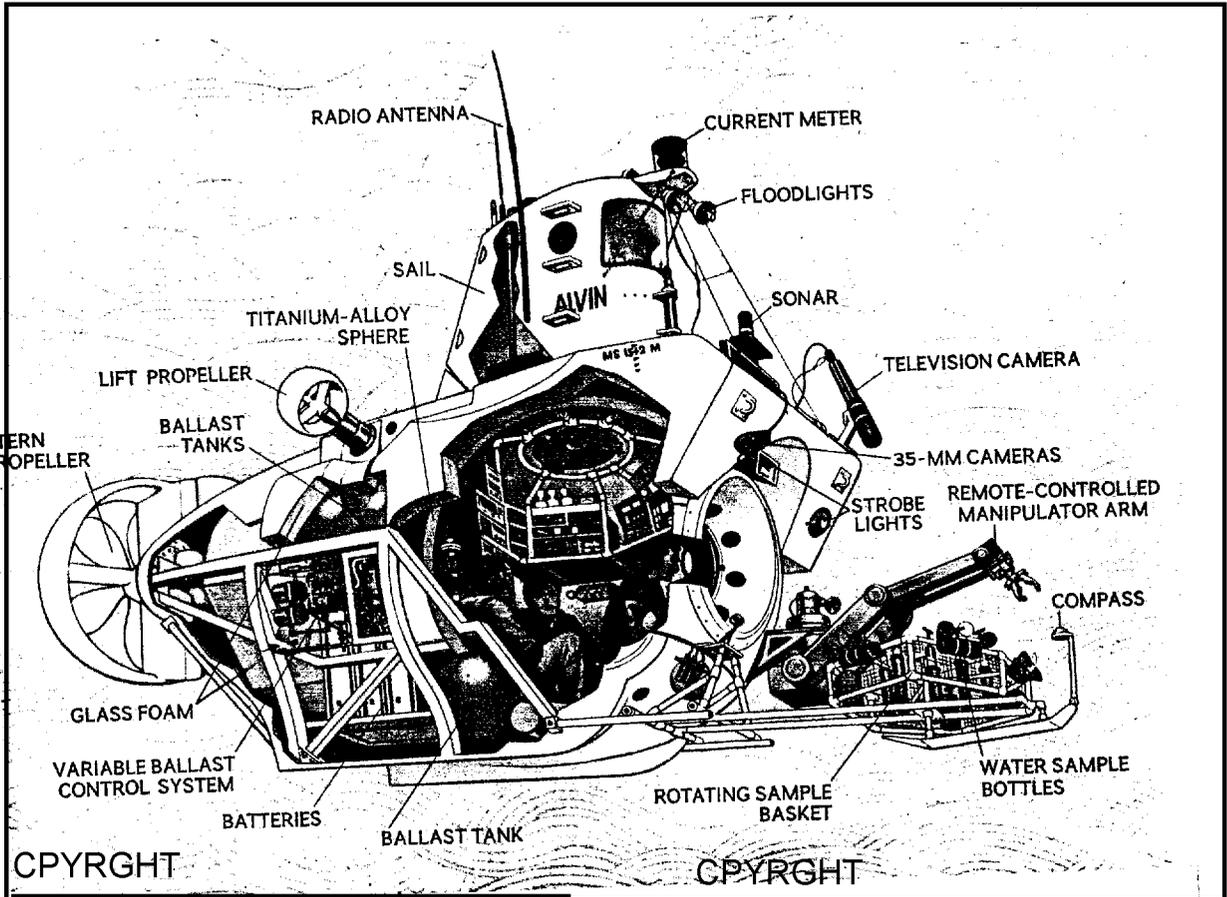
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CPYRGHT

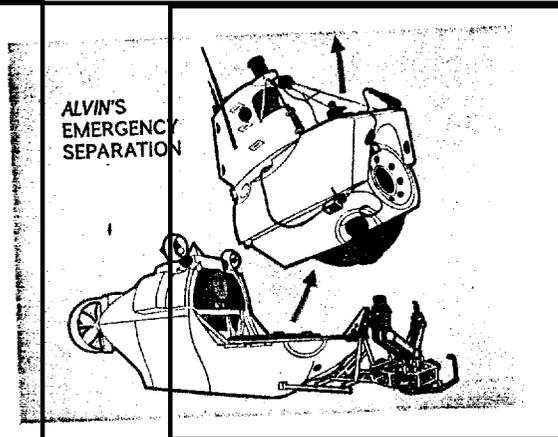


CPYRGHT

CPYRGHT

Safety comes first, not comfort, in the manned submersibles that took part in FAMOUS. Each houses its passengers in a sphere, the best shape for withstanding extreme water pressure.

Alvin's new titanium-alloy sphere, only two inches thick, is identical to another that withstood pressure to 22,500 feet when tested by the Navy. Her self-contained variable ballast system (above) depends on pumping water in and out. Should *Alvin* become entangled, her passenger capsule and conning tower, or sail, can disengage and float to the surface (right center).



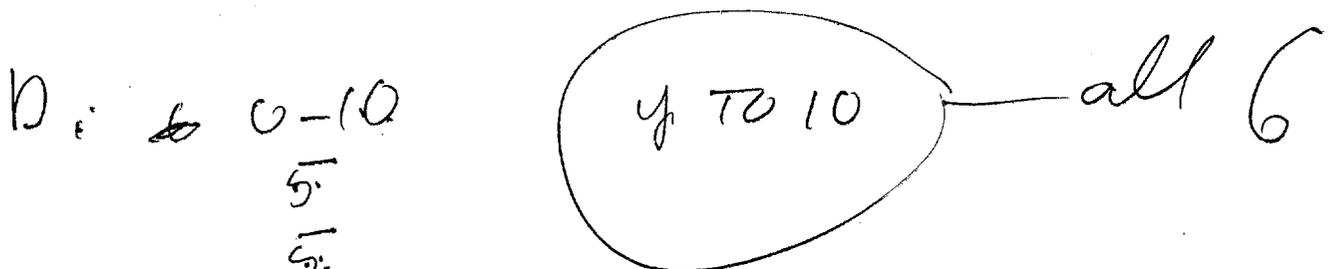
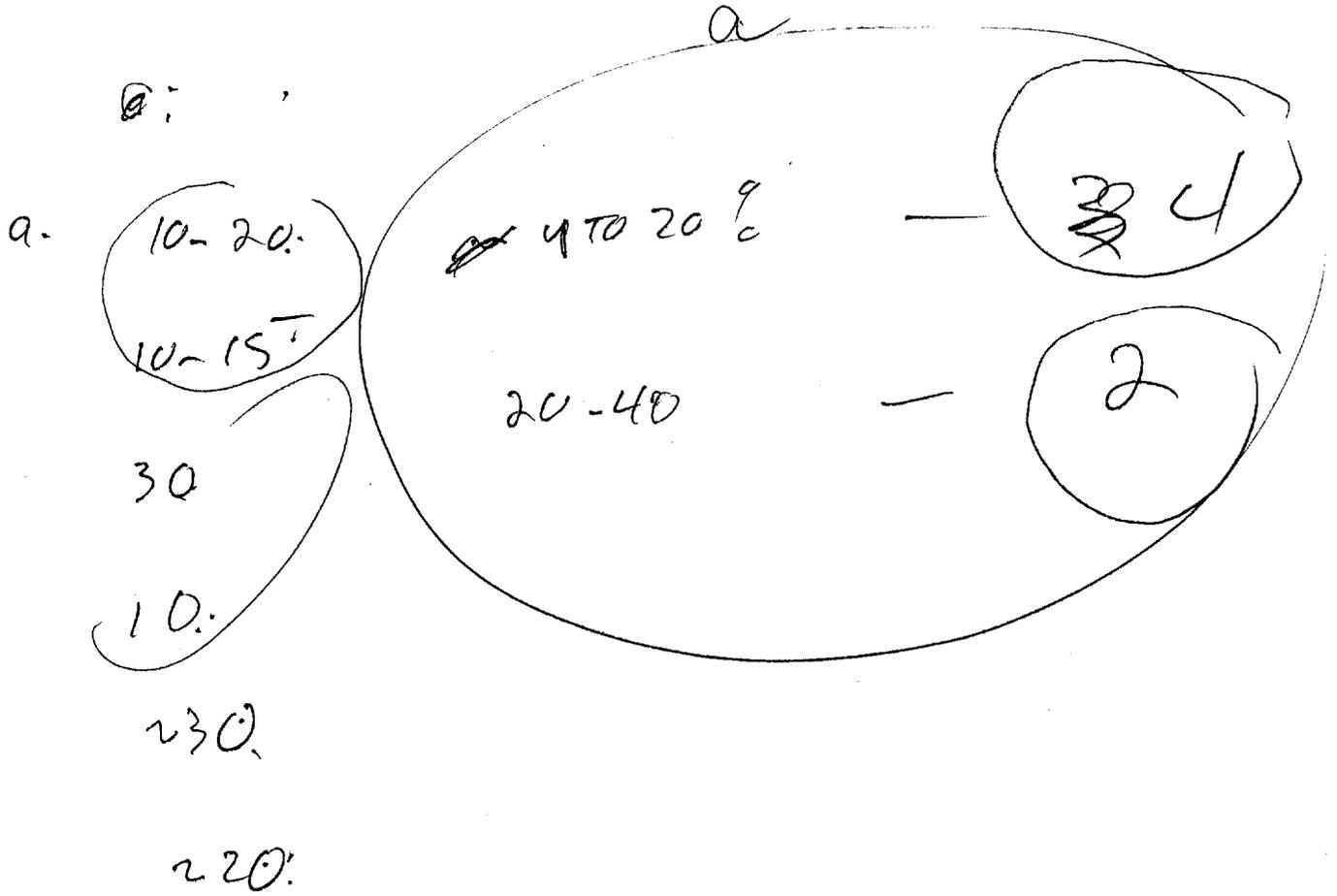
Concepts Generic
Key Elements Value

- o Water
- o Object / Structure
- o Spherical
- o Motion / Propulsion
- o Hard metal

— Analytical Labels

- o Submersible / Submarine
- o Underwater
- o Propulsion
- o Crew

o Phenetics 'ALVIN'



049

a. 10-20

b. 0-10 (5)

18 a. 10
- b. 10

079

a. 10-15

b. 0-2 (5)

002

a. 25-30
b. 5-10

052

a. (30)

b. (<5)

025

a. ~~20~~ 10-20

b. (10) ~~5-10~~ 5-

5-10?