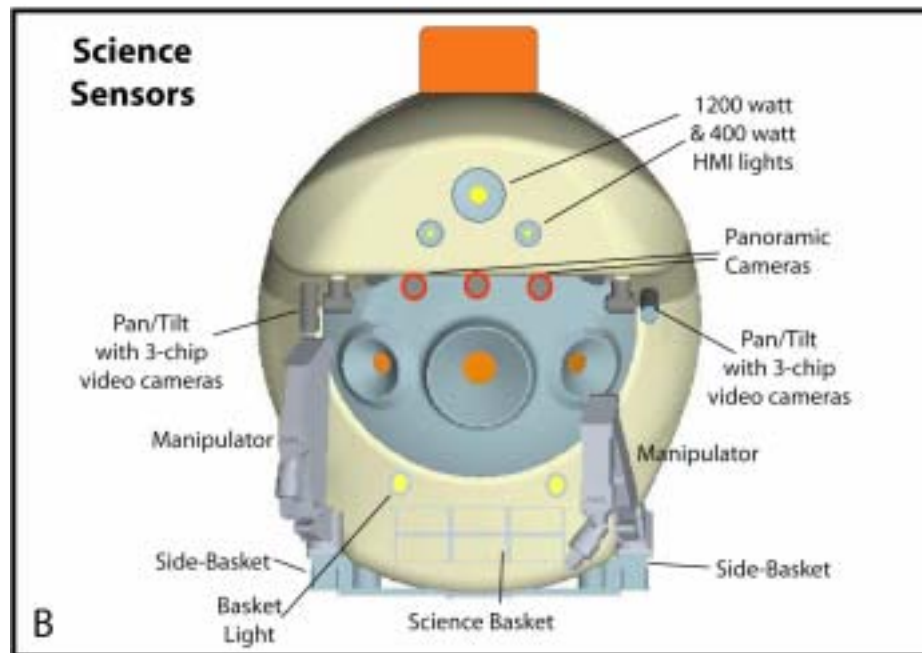
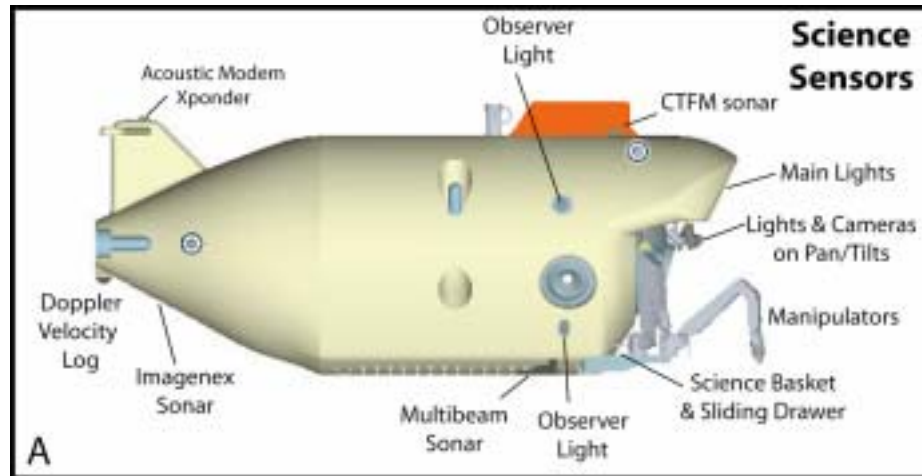


# Performance and Science Specifications

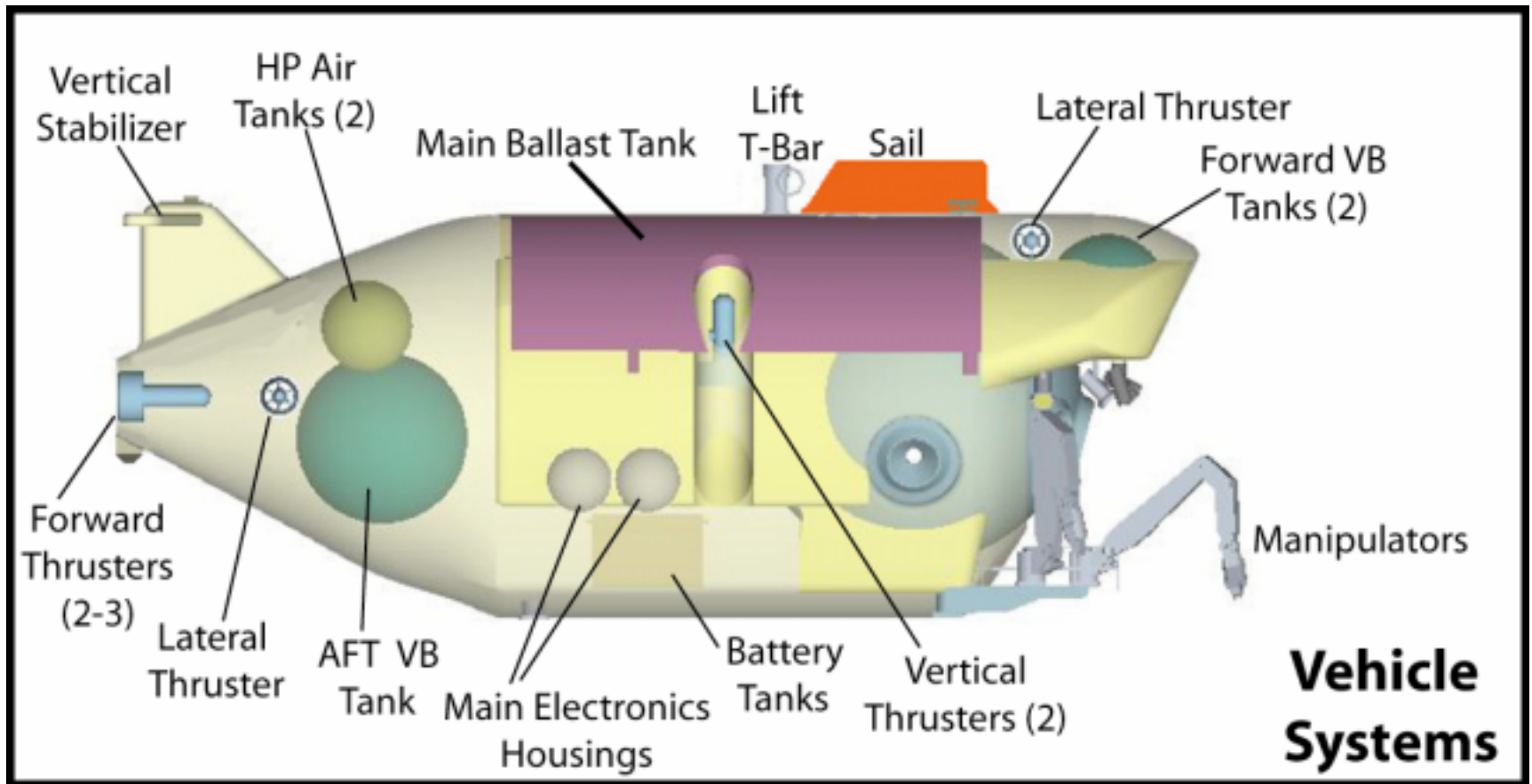
	<b>Current <i>Alvin</i></b>	<b>HOV Replacement</b>
<b>Depth</b>	4500 M	6500 m
<b>Sphere Volume</b>	144.2 cu. Ft.	170.8 cu. Ft.
<b>Science Payload (Ext)</b>	Typically 275 lbs	400 lbs
<b>Science Payload Volume (internal)</b>	6630 cu. in. of 19" rack space	12,300 cu. in. of 3U high 19" rack space
<b>Max speed forward</b>	2 kts	3 kts
<b>Max speed lateral</b>	Minimum lateral ability	0.5 kts
<b>Max speed vertical</b>	30 m/min	48 m/min
<b>Trim (fwd/aft)</b>	+/- 7.5 deg	+/- 15 deg
<b>Ascent/Descent Method</b>	Steel drop weights	Water ballast
<b>Positioning Control</b>	Manual w/ auto heading	Auto DP w/ auto heading and auto track following control

# HOV Replacement Science Overview

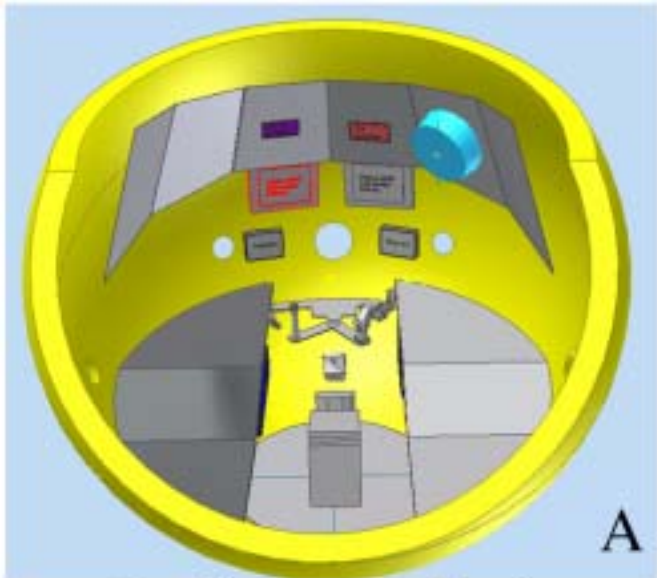




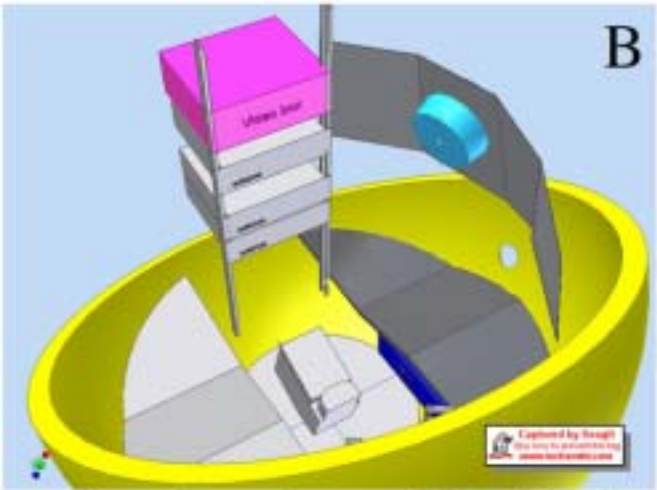
# HOV Replacement Vehicle Overview



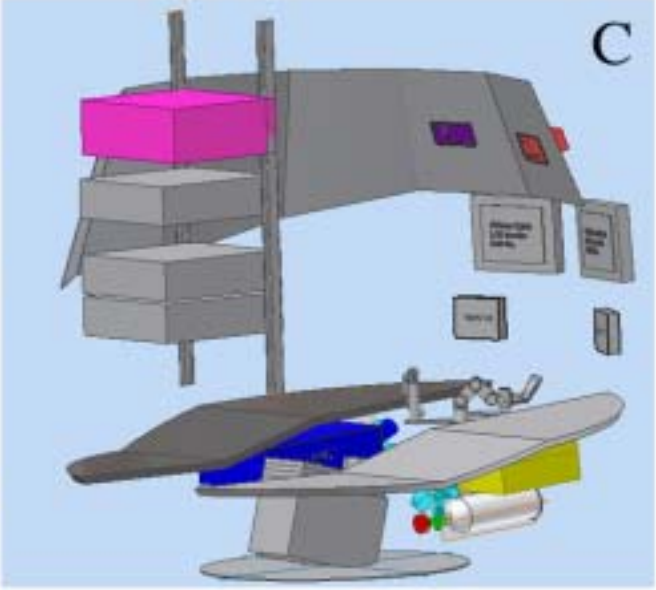
# Interior Basics



view from rear of sub.



view from front-stbd. of sub.



interior cut-away from starboard-aft side