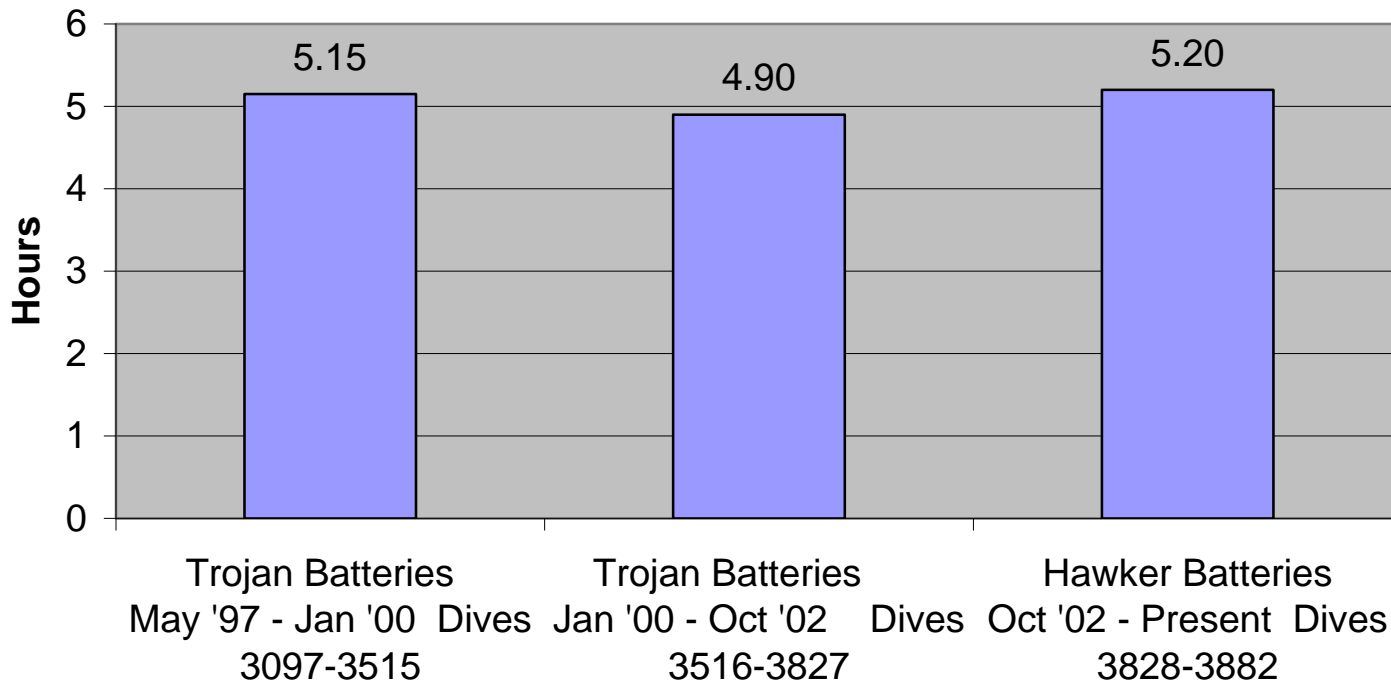


	5.15	4.90	5.20
Trojan Batteries	May '97 - Jan '00 Dives 3097-3515		
Trojan Batteries	Jan '00 - Oct '02 Dives 3516-3827		
Hawker Batteries	Oct '02 - Present Dives 3828-3882		

Average Bottom Time -- Last Three Generations of ALVIN Main Batteries





ALVIN Video Cameras



	Qty/Dive	Resolution	S/N	Optics	Sensitivity	Min. Illumination
Osprey SIT	1	300-600	20-40db	Fixed 12mm	F2.8 .001 Lux	.0001 Lux
Sony Single CCD Color	2	470	50db	Zoom 18x	N/A	3 Lux
Sony 3-CCD Color	1	800	62db	Zoom	F8 2000 Lux	4 Lux
Sony HDTV	Optional	1920x1080	62db	Zoom 10x	F8 2000 Lux	N/A

Note: SIT camera resolution and S/N decrease with the illumination level

Comparison of Video Recording Formats

Format	VHS	S-VHS	Hi-8	DVD	DV-DVCam
Horizontal Resolution	240	400	400	Variable	500+
Signal to Noise	35-45db	40-50db	40-50db		54bd
Recording System	Analog	Analog Y/C	Analog Y/C	Digital MPEG	Digital DV
Compression Type 1	Analog	Analog	Analog	60:1	5:1
Compression Scheme	Analog	Analog	Analog	Interframe	Intraframe
Digital Data Rate	N/A	N/A	N/A	3-8 mbits/sec	25 mbits/sec

Note: 2-hour streaming DVD (3-4 mbits/sec) cannot reproduce Hi-8 resolution

