## Alaska Crime Scene Investigations



## Telemetry Device: Life History Transmitter

Alias: LHX tag

Location: Inside the body cavity of the Steller sea lion

**Color:** Pink and grey, it looks like a large capsule about the size of a soda can.

**Technology:** Archival Satellite Transmitter devices custom developed by Markus Horning in collaboration with Wildlife Computers specifically for research on the endangered Steller sea lion.

Uses:	Surgically placed inside Steller sea lions to monitor individual sea lions throughout their entire lives, no matter where they go, until they die. The transmitter monitors temperature, light and surrounding medium to detect life or death. This information is used to determine how animal may have died.	
Satellite:	Connects with the ARGOS system aboard NOAA low-orbiting weather satellites. The ARGOS system offers worldwide tracking and environmental monitoring services	
Size:	About 1 and a half inches in diameter and 5 inches in length	
Weight:	¼ pound in air	
Batteries:	Two Lithium Thionyl-chloride primary cells, lifespan >10 years	
Transmitter:	ARGOS compatible UHF transmitter	
Internal memory:	0.25 MB, non-volatile	
Sensors Detect: • • •	Temperature Light Surrounding medium Other specialized sensors	
Shell material:	Resin with micro-glass spheres	

## Pressure

rating:	Can withstand a 1,500m water-column depth
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