

# Sub-hunting plane in search for flight 370

The U.S. Navy has deployed its newest patrol aircraft – the P-8A Poseidon – to use its high-tech sub-hunting equipment in the search for debris of Malaysian flight MH370

**Boeing P-8A Poseidon:** Can fly as low as 300m at 500km/h, with search time on site of around four hours. Crew of 9



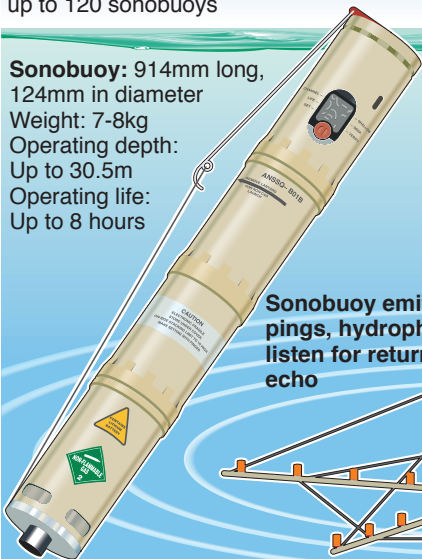
**AN/APY-10 radar:** Can locate small surface contacts such as aircraft debris

**Electro-optical/infrared unit:** Records digital video and infrared images

**Sonobuoys:** Can listen for "pings" from plane's black boxes. P-8A carries up to 120 sonobuoys

**MAD: Magnetic anomaly detection** can spot metallic objects on ocean bed by their disturbance to earth's magnetic field

**Sonobuoy:** 914mm long, 124mm in diameter  
Weight: 7-8kg  
Operating depth: Up to 30.5m  
Operating life: Up to 8 hours



**Sonobuoy emits pings, hydrophones listen for returning echo**

**1.** On impact with water, three main components of sonobuoy separate

Radio transmitter remains on surface

**2.** Cable unspools to pre-set depth of array

**3.** Array of hydrophones extends five telescopic arms – each with five hydrophones

