

**BOEING'S YELLOW SUBMARINE**

The whale-shaped, 18-foot-long (5.6-meter) underwater drone Echo Ranger recently made its first autonomous dives off Catalina Island, Calif., surveying an area beneath the Pacific Ocean while sending telemetry to Boeing engineers in surface boats. Although Echo Ranger was developed to capture high-resolution images of seabeds for the oil and gas industry, Boeing is now showcasing its capabilities for underwater intelligence, surveillance and reconnaissance missions and patrol of harbors and waterways for security threats. Echo Ranger is capable of diving to 10,000 feet (3,000 meters). Rockwell International, a Boeing heritage company, pioneered deep-dive manned submersibles in the 1960s. PHOTO: RANDY JACKSON/BOEING

