



Getting Started Underwater Photography For Beginners

Learn More Improve your underwater photography

Ready to Compete Got what it takes?

SEARCH DIVEPHOTOGUIDE.COM Search...

Home > News > Navy Seals? More like Navy Dolphins - New Sonar Technology Developed from Dolphins



Navy Seals? More like Navy Dolphins - New Sonar Technology Developed from Dolphins

By Joe Tepper, December 10, 2010 @ 01:15 PM (EST)

Source: Tech News Daily

TAGS:

Dolphins, sardine run, sonar, navy

All News

Photo

Video

Diving

Ocean

DPG News

Event Coverage

With more concern for dolphin conservation building in the marine community, it seems as if these marvelous mammals have decided to give a little back.

Researchers have developed brand-new Sonar technology based on the marine mammal's echolocation system. The existing Sound Navigation And Ranging - more commonly known as Sonar- has been used by the Navy since before the first World War, but even this seemingly standard technology has a kryptonite: bubbles!

Bubbles, such as those formed in the more shallow coastal water, actually scatter the sound of the Sonar devices, in turn effectively leaving the user blind. The new Sonar, named twin inverted pulse sonar (TWIPS), was developed by researchers at the University of Southampton who were inspired by the more sophisticated echolocation used by dolphins while hunting.

"Cold War sonar was developed mainly for use in deep waters where bubbles are not much of a problem, but many of today's applications involve shallow water," explains physics professor Timothy Leighton of the University at Southampton, "Better detection and classification of targets in bubbly waters are key goals of shallow-water sonar." Initial tests have shown that TWIPS does indeed out perform standard Sonar in such conditions.

So, what inspired this amazing new technology?

Actually, it was the "bubble nets" formed by dolphins to trap their prey, such as those seen in South Africa during the Sardine Run, which led the researchers to believe that a more advanced Sonar was possible.



赞 有 1 个人对这说“赞”。快成为你的朋友中，第一位

Sponsors Advertise



Dive Industry News

DiverWire Profile: Meet Jack Gittings - underwater imaging pioneer

HOLLIS Gear acquires rebreather design from VR Technology

Diver reunited with his AERIS F.10 scuba watch

Dive Friends Bonaire re-opens newly renovated Retail Store

Grove Scuba in Coconut Grove hosts Marine Festival this weekend

What's New



DAN is Dive Safety

Membership

Emergency Hotline

Insurance

MedEvac

Travel Assistance



WWW.DAN.ORG

230,000 divers dive with DAN

Do you?

1.800.446.2671

BOOKMARK f t g ...

Comments

Be the first to add a comment to this article.

You must be logged in to comment.

Related Content



September 1, 2011, 7:00AM Sardine Run...in the Philippines? Dense shoals of sardines run through Philippines every year [more](#)



January 29, 2010, 6:17PM Acoustic Engineer Creates Stunning Visual Representations Of Cetacean Songs Acoustic Engineer makes scientific art out of whale and dolphin songs [more](#)



December 3, 2009, 3:07PM

Blue Whales Are Singing A New Song

A new study has found that blue whales are singing deeper songs, but scientists aren't sure why. [more](#)



July 13, 2009, 1:33PM

Sardine Run 2009 - First Images

Underwater photography from the 2009 Sardine Run in South Africa [more](#)



June 25, 2009, 2:08PM

Timor Seeks Help To Protect Whale, Dolphin Hotspot

The government of East Timor says it plans to establish a national park to protect a bounty of dolphins and whales [more](#)

Our Partners



[About Us](#) | [Contact Us](#) | [Advertise](#)

[Dive Operator Registration](#)

DPG is a comprehensive [underwater photography](#) website and community for underwater photographers. Learn [underwater photography techniques](#) for popular digital cameras and specialized professional [underwater equipment](#) (wide angle, macro, super macro, lighting and work flow). Read latest news, explore [travel destinations](#) for underwater photography. Galleries of professional and amateur underwater photography including wrecks, coral reefs, undersea creatures, fashion and surfing photography.



© 2010. All Rights Reserved. [DivePhotoGuide.com](#), Underwater Holdings, LLC. | [Privacy Policy](#) | [Terms of Service](#)