

RSS for Posts

Subscribe by e-mail

Follow on Twitter

Connect on Facebook

Search



Investor Resources



Where is the stock market headed? If you have a £250,000 portfolio, you should download the latest report by Forbes columnist Ken Fisher's firm. It tells you where we think the stock market is headed and why. This must-read report includes analysis you won't find anywhere else. Don't miss it!

CLICK HERE to download

FISHER INVESTMENTS UK™

- Home Affairs Art Business Education Entertainment Environment Health Religion Technology Sports

Copyright & DMCA About Contact Privacy

# New sonar detects concealed underwater objects

November 19, 2010 | Science / Technology | Written by Vikas

0 赞 53 0

London, Nov 19 - Scientists have developed a new kind of underwater sonar that can detect objects like reefs and wrecks through bubble clouds that blind conventional sonar.

Just as ultrasound is used in medical imaging, conventional sonar 'sees' with sound. It uses differences between emitted sound pulses and their echoes to detect and identify targets.

These include submerged structures such as reefs and wrecks, and objects, including submarines and fish shoals.

Standard sonar does not cope well with bubble clouds resulting from breaking waves or other causes, which scatter sound and clutter the sonar image, according to a statement of the Institute of Sound and Vibration Research, UK.

Timothy Leighton from the Institute of Sound, who led the research, said: 'Better detection and classification of targets in bubbly waters are key goals of shallow-water sonar.'

Leighton and his colleagues have developed a new sonar concept called twin inverted pulse sonar (TWIPS). It uses trains of twinned pairs of sound. They set out to see whether TWIPS would work in practice.

Using a large testing tank, they showed experimentally that TWIPS outperformed standard sonar at detecting a small steel disc under bubbly conditions resembling those found under oceanic breaking waves.

Encouraged by their findings, they next conducted trials at sea aboard the University of Southampton's coastal research vessel the RV Bill Conway.

They compared the ability of TWIPS and standard sonar to discern the seabed in Southampton Water, which handles seven percent of Britain's entire seaborne trade. The seabed in this area varies in depth between 10 and 20 metres.

'TWIPS outperformed standard sonar in the wake of large vessels such as passenger ferries,' said co-author Justin Dix of the School of Ocean and Earth Science (SOES) based at the National Oceanography Centre, Southampton.

IANS

Stem Cell Preservation www.Cells4Life.co.uk Safeguard your Baby's Future Health With Umbilical Cord Blood Storage.

WASSP Multibeam Sonar www.oceanDTM.com Affordable Swath Bathymetry Is Here - 112 beams - 160 kHz - GBP 19200.

Acoustic Consultants www.easvacoustics.co.uk Acoustic Assessment - Noise Survey - Get a Quote Today!

Carpet Cleaning Service abbey-cleaning.net Check Out Our Services! Regular Carpet Cleaning Solutions.

AdChoices

## Related Headlines

- NASA's Fermi Telescope detects 1,873 new light sources in the universe
How bats stay on target despite the clutter
New invisibility cloak uses 'mirage effect' to make objects 'disappear'
Orca ear-inspired ultrasensitive underwater microphone developed
Whale Orca's ears inspire ultrasensitive mike
Bat's sonar more sophisticated than thought
Blind can develop bat-like sonar to see
California explorer to use side-scan sonar to locate Bin Laden's body in sea

0

赞

### Hydrographic Survey Tool

Small AUV, Operate from shore Low cost, easy to use, accurate www.iver-auv.com

### Drain Cleaning Service

Whatever Your Requirements. Drainage Service You Can Count On strongbeamconstruction-so19.co.uk

### 24/7 Fitness Fareham OPEN

Down End Road, Join Today! Only £17.95 a month, 01329 232321 www.247fitness.co

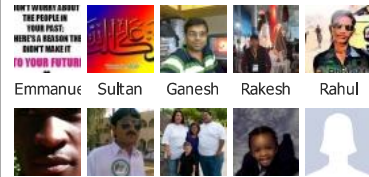
AdChoices

Posts Comments

- 1. India has provided enough documentation against Hafiz Saeed to Pak, says Mathai
2. India, Sri Lanka agree on JWG meeting to resolve fishermen issue
3. Emirati students promote Abu Dhabi in London
4. 20 dead in China coal mine gas leak
5. Iran to 'powerfully' respond to a US attack
6. Three held for robbery in west Delhi
7. Chinese president arrives in Hawaii for APEC meeting
8. Movie buff Buddhadeb skips Kolkata film fest opening
9. US jobless levels at 7-month low
10. India counters Pakistan, says enough info against Hafiz Saeed

Facebook上的 India Talkies

53 人赞 India Talkies



Facebook 社交插件

0

comment...

Comment

Facebook social plugin

Share

About



It has workforce strength of 20 correspondents, reporters and stringers spread all across the country. A motivated workforce of 25 personnel is associated with the company.

About Us

Search Archive

Select a date

Select Month

Select a category

Art / Books

Search with Google

Write keyword and hit return

Socialize



Searching for india talkies twips?