Contact Us Privacy Policy About

enter search terms

search

Art Entertainment Environment News Photos Travel History Science-Technology Animals Health

Dolphins Inspired Scientists to Create New Kind of Underwater Sonar Device!!!

Nataly | November 18, 2010 | 0 Comments

A group of scientists at the University of Southampton have developed a new kind of underwater sonar device inspired by dolphins. The sonar can detect objects through bubble clouds, caused by breaking waves, that would blind standard sonar.



Standard sonar uses differences between emitted sound pulses and their echoes to identify targets such as reefs, wrecks, fish and submarines. When it comes to bubble clouds, created from breaking waves, the $conventional\ sonar\ devices'\ sound\ becomes\ scattered\ and\ the\ sonar\ image\ is\ blurred.$

 $\hbox{``Cold war sonar was developed mainly for use in deep water where bubbles are not much of a problem, but}$ $many\ of\ today's\ applications\ involve\ shallow\ waters.\ Better\ detection\ and\ classification\ of\ targets\ in\ bubbly$ waters are key goals of shallow-water sonar," said Professor Timothy Leighton, study leader from the $University\ of\ Southampton's\ Institute\ of\ Sound\ and\ Vibration\ Research\ (ISVR).$

Advertisement

Enter your email address below to receive updates each time we publish new content.

email address

submit

Privacy guaranteed. We never share your info.







Recently Popular



Cute Orphan Dolphin Saved



20 Most Amazing Microscope Shots Pictures



Leighton knows dolphins hunt fish with "bubble nets," and he said that that has occured to him "that either dolphins were blinding their sonar when making such nets, or else they have a better sonar system."

Leighton and his team created twin inverted pulse sonar (TWIPS), a new sonar concept, that dissects the way $bubbles\ pulsate\ in\ sound\ fields.\ This\ kind\ of\ sonar\ emits\ two\ pulses,\ one\ right\ after\ the\ other\ and\ one\ the$ $inverted \ form\ of\ the\ other.\ TWIPS\ concept\ was\ first\ tasted\ in\ a\ tank\ and\ then\ in\ the\ Southampton\ waters,$ where marine traffic generates many bubbles.

"TWIPS outperformed standard sonar in the wake of large vessels such as passenger ferries," said co-author Dr Justin Dix of the University of Southampton's School of Ocean and Earth Science.

WASSP Multibeam Sonar

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

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

Swim With Dolphins
Official Site - Start Relaxing Now. Check for Deals & Availability Here
www.NassauParadiseIsland.com

MCM Driving School

Big Discounts for Students at Your Local Driving School in Southampton www.mcmdrivingschool.com

AdChoices ▷

Did you like this? Share it:



成为你朋友中第一个赞这个的人吧!

 $\textbf{Tags:} \ animals, \ device, \ dolphins, \ ISVR, \ news, \ science, \ sonar, \ TWIPS$ Category: Animals, News

Subscribe

If you enjoyed this article, subscribe to receive more just like it.

subscribe via email

Privacy guaranteed. We never share your info.





Comments (o)

Trackback URL | Comments RSS Feed

There are no comments yet. Why not be the first to speak your mind.

Leave a Reply

Name (required)
Email (required; will not be published)

Advertisement

Recent **Posts**

30 Examples of Extraordinary Battles in Nature

10 Global Warming Jokes by Jay Leno

10 Most Polluted Places in The World in 2011

10 Best Environmental Photos for 2011

6 Global Warming Skeptical Organizations

Recent **Comments**

Anjan Chatterjee on 30 $Examples\ of$ Extraordinary Battles in Nature

risovic on 30 Examples of Extraordinary Battles in Nature

Claire on 10 Cutest Animals in The World

Michael L. Baird on 30 Examples of Extraordinary Battles

Jimbo on 20 Most Amazing Microscope Shots Pictures !!!!

Major book recycling through the artworks of Milice Tags Tags Categories Administration and a some a some and a some							wei	bsite		
Major book recycling through the artworks of Mike Tags Categories November 2011 November 201									7	
Animals November 2011 November 201										
Adapts book recycling through the artworks of Mike Two tree solutions of the state										
Adapts book recycling through the artworks of Mike Two tree solutions of the state										
Animals November 2011 November 201										
Animals November 2011 November 201										
Major book recycling through the artworks of Mike Tags Categories November 2011 November 201									de la companya de la	
Tags	Sub	mit	Ī							
Tags Categories November 2011			1							
Tags			ecy clin	g throu	ıgh the	artwor	ks of Mik	ce 5 Bizarre Animal Soun	ds »	
November 2011 M T W T F S S S China conservation creatures earth eco 1 2 3 4 5 6 friendly ecology endangered species 7 8 9 10 11 12 13 environment Environment 14 15 16 17 18 19 20 freatured food Global Warming 21 22 23 24 25 26 27 green history images insects Japan nature 28 29 30	illkey									
November 2011 M T W T F S S S China conservation creatures earth eco friendly ecology endangered species environment Environment environmental activist evolution featured food Global Warming 21 22 23 24 25 26 27 green history images insects Japan nature NewS odd photography photos planet world Science species strange study sustainability travel Water weird world November 2011										
November 2011 M T W T F S S S China conservation creatures earth eco friendly ecology endangered species environment Environment environmental activist evolution featured food Global Warming 21 22 23 24 25 26 27 green history images insects Japan nature NewS odd photography photos planet world Science species strange study sustainability travel Water weird world November 2011										
November 2011 M T W T F S S S China conservation creatures earth eco friendly ecology endangered species environment Environment environmental activist evolution featured food Global Warming 21 22 23 24 25 26 27 green history images insects Japan nature NewS odd photography photos planet world Science species strange study sustainability travel Water weird world November 2011										
November 2011 M T W T F S S S China conservation creatures earth eco 1 2 3 4 5 6 friendly ecology endangered species 7 8 9 10 11 12 13 environment Environment 14 15 16 17 18 19 20 freatured food Global Warming 21 22 23 24 25 26 27 green history images insects Japan nature 28 29 30										
November 2011 M T W T F S S S China conservation creatures earth eco 1 2 3 4 5 6 friendly ecology endangered species 7 8 9 10 11 12 13 environment Environment 14 15 16 17 18 19 20 freatured food Global Warming 21 22 23 24 25 26 27 green history images insects Japan nature 28 29 30										
November 2011 M T W T F S S S China conservation creatures earth eco 1 2 3 4 5 6 friendly ecology endangered species 7 8 9 10 11 12 13 environment Environment 14 15 16 17 18 19 20 freatured food Global Warming 21 22 23 24 25 26 27 green history images insects Japan nature 28 29 30										
November 2011 M T W T F S S S China conservation creatures earth eco friendly ecology endangered species environment Environment environmental activist evolution featured food Global Warming 21 22 23 24 25 26 27 green history images insects Japan nature NewS odd photography photos planet pollution science species strange study sustainability travel water weird world News Photos Science-Technology Travel										
November 2011 M T W T F S S S China conservation creatures earth eco friendly ecology endangered species environment Environment environment activist evolution featured food Global Warming green history images insects Japan nature November 2011 Animals Art Bizarre Design Entertainment Environment Featured Health Health NewS odd photography photos planet pollution science species strange study sustainability travel Water weird world News Photos Science-Technology Travel										
November 2011 M T W T F S S S China conservation creatures earth eco friendly ecology endangered species environment Environment environmental activist evolution featured food Global Warming 21 22 23 24 25 26 27 green history images insects Japan nature NewS odd photography photos planet world Science species strange study sustainability travel Water weird world November 2011										
M T W T F S S S China conservation creatures earth eco friendly ecology endangered species environment Environment environmental activist evolution featured food Global Warming 21 22 23 24 25 26 27 green history images insects Japan nature News odd photography photos planet world Science species strange study sustainability travel Water weird world Animals Ant Animals Art Art Design Entertainment Environment Featured Health Health History Nature News Photos Science-Technology Travel										
M T W T F S S S China conservation creatures earth eco friendly ecology endangered species environment Environment environmental activist evolution featured food Global Warming 21 22 23 24 25 26 27 green history images insects Japan nature News odd photography photos planet world Science species strange study sustainability travel Water weird world Animals Ant Animals Art Art Design Entertainment Environment Featured Health Health History Nature News Photos Science-Technology Travel										
M T W T F S S S China conservation creatures earth eco friendly ecology endangered species environment Environment environmental activist evolution featured food Global Warming 21 22 23 24 25 26 27 green history images insects Japan nature News odd photography photos planet world Science species strange study sustainability travel Water weird world Animals Ant Animals Art Art Design Entertainment Environment Featured Health Health History Nature News Photos Science-Technology Travel										
M T W T F S S S China conservation creatures earth eco friendly ecology endangered species environment Environment environmental activist evolution featured food Global Warming 21 22 23 24 25 26 27 green history images insects Japan nature News odd photography photos planet world Science species strange study sustainability travel Water weird world Animals Ant Animals Art Art Design Entertainment Environment Featured Health Health History Nature News Photos Science-Technology Travel										
November 2011 M T W T F S S S China conservation creatures earth eco friendly ecology endangered species environment Environment environmental activist evolution featured food Global Warming 21 22 23 24 25 26 27 green history images insects Japan nature NewS odd photography photos planet world Science species strange study sustainability travel Water weird world November 2011										
M T W T F S S S China conservation creatures earth eco Bizarre 1 2 3 4 5 6 friendly ecology endangered species Design 7 8 9 10 11 12 13 environment Environment environment Environment 14 15 16 17 18 19 20 Featured food Global Warming 21 22 23 24 25 26 27 green history images insects Japan nature 8 29 30 Featured food photography photos planet pollution science species strange study sustainability travel Water Weird world News Photos Science-Technology Travel										
China conservation creatures earth eco 1								Tags	Categories	
1 2 3 4 5 6 friendly ecology endangered species 7 8 9 10 11 12 13 Entertainment Environment Environment Environment Environment Environment Environment Environment Featured Featured Featured Food Global Warming green history images insects Japan nature NeWS odd photography photos planet pollution Science species strange study sustainability travel Water weird world News Photos Science-Technology Travel			Nove	mber	2011			adaptation Africa animal animal behaviour		
environmental activist evolution featured food Global Warming required food Global Warming green history images insects Japan nature news odd photography photos planet w Oct w Oct w Oct w Oct w Oct news odd photography photos planet pollution science species strange study sustainability travel water weird world news Nature News Photos Science-Technology Travel	M					s	s	adaptation Africa animal animal behaviour animals art Asia beauty Birds bizzare	Animals Art	
environmental activist eVolution featured food Global Warming 21 22 23 24 25 26 27 green history images insects Japan nature NeWS odd photography photos planet Featured Health History Nature Noews Photos Science-Technology Travel	M	T	w	Т	F			adaptation Africa animal animal behaviour animals art Asia beauty Birds bizzare China conservation creatures earth eco	Animals Art Bizarre	
reatured food Global Warming green history images insects Japan nature newS odd photography photos planet world world world reatured green history images insects Japan nature newS odd photography photos planet pollution science species strange study sustainability travel water weird world News Photos Science-Technology Travel		T 1	W	T 3	F	5	6	adaptation Africa animal animal behaviour animals art Asia beauty Birds bizzare China conservation creatures earth eco friendly ecology endangered species environment Environment	Animals Art Bizarre Design	
28 29 30 news odd photography photos planet History **Oct pollution Science species strange study sustainability travel Water weird world **News Photos Science-Technology Travel	7	T 1 8	W 2 9	T 3 10	F 4 11	5 12	6	adaptation Africa animal animal behaviour animals art Asia beauty Birds bizzare China conservation creatures earth eco friendly ecology endangered species environment Environment environmental activist evolution	Animals Art Bizarre Design Entertainment	
« Oct pollution Science species strange study sustainability travel water weird world News Photos Science-Technology Travel	7 14	T 1 8 15	W 2 9 16	T 3 10	F 4 11 18	5 12 19	6 13 20	adaptation Africa animal animal behaviour animals art Asia beauty Birds bizzare China conservation creatures earth eco friendly ecology endangered species enviornment Environment environmental activist evolution featured food Global Warming	Animals Art Bizarre Design Entertainment Environment Featured	
sustainability travel Water weird world News Photos Science-Technology Travel	7 14 21	T 1 8 15 22	W 2 9 16 23	T 3 10	F 4 11 18	5 12 19	6 13 20	adaptation Africa animal animal behaviour animals art Asia beauty Birds bizzare China conservation creatures earth eco friendly ecology endangered species enviornment Environment environmental activist evolution featured food Global Warming green history images insects Japan nature	Animals Art Bizarre Design Entertainment Environment Featured Health	
Photos Science-Technology Travel	7 14 21 28	T 1 8 15 22 29	W 2 9 16 23	T 3 10	F 4 11 18	5 12 19	6 13 20	adaptation Africa animal animal behaviour animals art Asia beauty Birds bizzare China conservation creatures earth eco friendly ecology endangered species enviornment Environment environmental activist evolution featured food Global Warming green history images insects Japan nature news odd photography photos planet	Animals Art Bizarre Design Entertainment Environment Featured Health History	
Science-Technology Travel	7 14 21 28	T 1 8 15 22 29	W 2 9 16 23	T 3 10	F 4 11 18	5 12 19	6 13 20	adaptation Africa animal animal behaviour animals art Asia beauty Birds bizzare China conservation creatures earth eco friendly ecology endangered species enviornment Environment environmental activist evolution featured food Global Warming green history images insects Japan nature newS odd photography photos planet pollution science species strange study	Animals Art Bizarre Design Entertainment Environment Featured Health History Nature	
Travel	7 14 21 28	T 1 8 15 22 29	W 2 9 16 23	T 3 10	F 4 11 18	5 12 19	6 13 20	adaptation Africa animal animal behaviour animals art Asia beauty Birds bizzare China conservation creatures earth eco friendly ecology endangered species enviornment Environment environmental activist evolution featured food Global Warming green history images insects Japan nature newS odd photography photos planet pollution science species strange study	Animals Art Bizarre Design Entertainment Environment Featured Health History Nature News	
Uncategorized	7 14 21 28	T 1 8 15 22 29	W 2 9 16 23	T 3 10	F 4 11 18	5 12 19	6 13 20	adaptation Africa animal animal behaviour animals art Asia beauty Birds bizzare China conservation creatures earth eco friendly ecology endangered species enviornment Environment environmental activist evolution featured food Global Warming green history images insects Japan nature newS odd photography photos planet pollution science species strange study	Animals Art Bizarre Design Entertainment Environment Featured Health History Nature News Photos	
	7 14 21 28	T 1 8 15 22 29	W 2 9 16 23	T 3 10	F 4 11 18	5 12 19	6 13 20	adaptation Africa animal animal behaviour animals art Asia beauty Birds bizzare China conservation creatures earth eco friendly ecology endangered species enviornment Environment environmental activist evolution featured food Global Warming green history images insects Japan nature newS odd photography photos planet pollution science species strange study	Animals Art Bizarre Design Entertainment Environment Featured Health History Nature News Photos Science-Technology	
	7 14 21 28	T 1 8 15 22 29	W 2 9 16 23	T 3 10	F 4 11 18	5 12 19	6 13 20	adaptation Africa animal animal behaviour animals art Asia beauty Birds bizzare China conservation creatures earth eco friendly ecology endangered species enviornment Environment environmental activist evolution featured food Global Warming green history images insects Japan nature newS odd photography photos planet pollution science species strange study	Animals Art Bizarre Design Entertainment Environment Featured Health History Nature News Photos Science-Technology Travel	

Powered By BloggerHigh Have you ever tried autoblogging - try it for free