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Advocate Online Table of Contents	Technology blamed for fish decline Click here to login to your free email.	
<u>Agriculture</u>	April 7, 2002 E-mail Story to a Friend Printer Friendly Lottery Picks	
<u>Business &</u> <u>Technology</u>	BIJAL P. TRIVEDI National Geographic Today	
Local Business	Cold War are technology, such as some setallites and clobal positioning required	
<u>Column-Net</u> <u>Dispatch</u>	Cold War era technology - such as sonar, satellites and global positioning - now used by the commercial fishing industry may be accelerating what researchers call a dramatic decline in fish stocks around the world, according to an unpublished study by scientists at the University of British Columbia in Canada.	
<u>AP-Business &</u> <u>Financial</u>		
AP-Technology	"Fishermen can now drop nets into holes and crevices with astounding accuracy or	
Stock Tracker	hover precisely over sea mountains and essentially scoop out every last fish," said	
Comics/Crossword	Daniel Pauly, a professor of Global Fisheries at UBC's Fisheries Center in Vancouver, British Columbia.	
<u>Columnists</u>		
County by County	UBC scientists estimate that in the last century the amount of North Atlantic fish	
Entertainment	harvested for human consumption - or tablefish - has decreased by 85 percent, from about 76 million tons to 11 million tons.	
<u>Health</u>		
<u>History</u>	"And this decline is accelerating," said Pauly, who led the study.	
<u>Lifestyle</u>	Tablefish continue to decrease at more than 2 percent per year, and represent a	
Local/State	declining proportion of the total fish catch for the North Atlantic, said Villy	
Nation/World	Christensen, a research fellow at UBC.	
<u>Opinion</u>	The total fish catch for the North Atlantic peaked in the mid-1970s with close to 21	
Obituaries & Public <u>Records</u>	million tons, but tablefish accounted for less than 9 percent. Pauly's team believes that	
Religion	anecdotal evidence closely ties this rapid decline to the use of these new technologies	
<u>Seniors</u>	on an industrial scale.	
<u>Sports</u>	After the Cold War ended more than 10 years ago, the Navy declassified sonar-	
Weather	mapping technologies far superior to their civilian counterparts. The United States	
Youth	Geological Survey then used that technology to produce detailed three-dimensional maps of the ocean floor.	

These maps "reveal intricate details of underwater landscapes, which are then open to exploitation," said Callum Roberts, of the University of York in England, at a meeting of the American Association for the Advancement of Science last month in Boston.

During the Clinton administration, the military also declassified a more sensitive version of Global Positioning System technology than was previously available to civilians, said Roberts.

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• <u>Gushers and Dusters</u> • <u>Emergency shelters go</u> back to the basics	With sonar maps fishermen can identify the best regions to fish, while the improved GPS directs their ships precisely to that spot. Researchers point to the rapid depletion of orange roughy, which worsened during the period some of this enhanced technology was released.
• <u>Make changes so your</u> 2002 taxes will be easier •Sentiment versus	Trawling for orange roughy increased in the mid-1980 when aggregations were discovered around the sea mountains near New Zealand. On a good day a 20-minute trawl yielded 60 tons of roughy, according to Roberts. But by the mid 1990s these fish stocks had been reduced to 20 percent of their pre-fishing levels.
spending •Halliburton says it will appeal	Atlantic swordfish fleets have also come to rely on satellite pictures released by the National Oceanic and Atmospheric Administration that reveal sea-surface temperatures around fishing grounds.
• <u>Movers & Shakers</u> • <u>Get your business in The</u> <u>Advocate</u>	Large fish, such as swordfish and bluefin tuna, are attracted to fronts where cold and warm ocean waters meet. Satellite data can guide the fishermen to these fronts for large-scale fishing. In the lucrative bluefin tuna trade, one fish can fetch \$10,000 or more in Japanese markets.
• <u>Species of webworms</u> causing an uproar	Fish census
• <u>Car rental can be a</u> global act	Pauly and his colleagues tried to determine the impact of fishing on the world's marine ecosystem over the last century and paint a global picture of fish populations. The first phase of their study, funded by the Pew Charitable Trusts, focused on the North Atlantic.
• <u>SEC says no to Enron</u> bonuses	The researchers painstakingly collected thousands of reports on fish catches, called landings, from ports around the world for the last century.
• <u>Construction keeps</u> architectural history alive	"But the landings don't tell you where these fish come from, or where the fishing fleets have been," said Pauly's colleague Reg Watson, also a UBC researcher
•Couples should consider women's needs when retirement planning	Watson and Pauly used the composition of the catch to estimate where the fish originated.
• <u>Soybeans rise on</u> speculation	The researchers found that the total number fish hauled from the North Atlantic has almost doubled since the 1950s and increased fivefold from levels harvested in the early 1900s.
• <u>History hints at long wait</u> for Wall Street recovery	The result has been the collapse of fisheries in the North Atlantic and around the
• <u>High gas costs send</u> wholesale prices soaring	world, says Pauly. A study of more than 90 marine fish populations revealed that many species that
• <u>Airlines raising leisure</u> fares	suffered more than a decade of declines greater that 45 percent did not rebound, even after 15 years, said Jeffrey Hutchings, of Dalhousie University in Halifax, Nova Scotia.
• <u>Wabash closing auto</u> parts plant	Marine reserves
• <u>House bill adds worker</u> protections to pension	"We need to close at least 30 percent of the North Atlantic Ocean to fishing," said Pauly.
laws	The most effective method to stem the tablefish decline: create marine reserves where all fishing is prohibited and the habitat is protected, say the UBC scientists.

<u>confirmed</u>

•Smart glass can help avoid waits for refills	A less controversial solution would be more Marine Protected Areas where only certain species of fish are protected. Such areas along the east coast and Gulf of Mexico have been credited with increasing the stock of scallops, haddock and yellowtail, said Steve Murawski, of the Northeast Fisheries Science Center in Woods
•Restaurant Reports	
• <u>Recall issued for infant</u> swing seats	Hole, Mass.
•Printers keeping pace with computers	But creating these protected areas in often a contentious process. Many New England fishermen support MPAs, and even marine reserves, but their
•Internet scams cost Americans millions	attitude is "not in my backyard," said policy analyst Michael Pentony, of the New England Fishery Management Council.
•Wary investors give Wall Street bad day	"There are many New England communities whose entire identity is tied to commercial fishing," said Pentony. "Along the North East Coast you can potentially wipe out a town if you close a fishery."
•Prosecution nearing end in Microsoft suit	
•Class action status requested in FVNB suit	
•Energy firms will swap properties	
•InverWorld sues Deloitte	
•IUnion sues Northwest Airlines	
• <u>Victoria Mall seeking</u> more new business	
•Issues in Daewoo sale settled	
•Corn, soybean prices decline	
• <u>Halliburton seeks new</u> accountant	
•Sprint eliminates 69 more jobs	
•Dow, Nasdaq fall as traders sell tech stocks	
•Soybean futures advance	
•El Paso acquisition	

•Andersen to lay off 7,000 workers

•<u>Wheat prices fall with</u> rain

•Disaster loan deadline extended

•<u>Treasury bill auction</u> sees interest rates fall

•Investors shake off IBM warning Monday; lower prices boost Nasdaq

•<u>Company consolidates</u> services under one COO

•<u>Obesity qualifies for a</u> tax deduction

•Boomer demands help reshape the adult care market

Gushers & Dusters

•OSHA recognizes Seadrift Coke's protection program

•MBA professors teaching real world skills

•<u>Retail job cuts this year</u> could be the worst in last 20 years

•<u>Store really means 'no</u> returns'

•<u>Technology blamed for</u> fish decline

•<u>Unrest in Middle East</u> causing uncertainty for <u>U.S. economy</u>

•Judge grants SEC request

•<u>Vignette announces</u> layoffs

http://www.texascrossroads.com/business/local/story/253677p-350057c.html (4 of 8) [4/27/2002 11:15:20 PM]

•Soybean prices recover

•<u>Court upholds</u> experiment

•Drop in stock prices brings buyers back

•<u>New shipping center</u> opened

•<u>Wind-generated power</u> now available

•Soybean futures register decline

Restaurant Reports

•Kaiser Aluminum Corp. delisted

•Markets post minor gains

•<u>Voluntary ergonomic</u> rules due today

•FCC orders 'two-dish' plan be eliminated

•FDA gives limited approval to sale of underskin chips

•Smart ID cards could tell all

•Judge delays decision on Halliburton claims

•Data sharing can be halted

•Weak exports hit soybeans

•Fears of high crude prices grip markets

•Judge asked to allow merger

•<u>GM recalling cars due to</u> fire threat

•<u>Aircraft maker asks</u> court for protection

Bonuses will be returned

•<u>Market suffers as</u> investors' caution rises

•Soybeans prices retreat again

•Soybeans slip; grains rise

•Stocks rise in Mexico

•<u>Oil prices highest in six</u> months

•Walter Hewlett is not chosen for HP board

•<u>Mideast worries weigh</u> on stocks

•Homeowners insurance rates skyrocket

•Panel urges steps to lower mold risk

•<u>Time to spring clean</u> mutual fund portfolio

•First-aid kits don't leave anything to chance

Movers & Shakers

Gushers & Dusters

•Feds open investigation of Baker Hughes Inc.

•<u>Victoria receives part of</u> grant marked for Web site development

•<u>Merger terminated with</u> Enron firm

•<u>California seeks Enron</u> documents

•Automatic privacy disclosure Some major Web sites meet labels with indifference

•<u>Veteran police officer</u> hired by energy company

•Blue chips fall, tech stocks rise as quarter ends

•<u>Researcher building</u> robot reporter for battlefield use

•Conoco CEO gets \$3.3 million bonus

Restaurant Reports

•Soybean prices advance

•Send an e-mail, go to jail

•<u>New Braunfels Smoker</u> Co. to close its plant

•Wheat rockets higher

•La Madeleine hires new CEO

•EDS signs \$1 billion in contracts

•<u>Stocks rise due to</u> <u>bargain hunting on</u> <u>Wednesday</u>

•Stocks down in Mexico

•<u>Mrs. Baird's Bread</u> Dallas bakery closes

•Soybeans climb on export hopes

•<u>Markets rise on</u> increases in confidence

•<u>Treasury bill auction</u> produces mixed rates

•Corn hits contract lows again

•<u>Hanover to correct</u> figures

•Playboy seeking Enron pictorial

•<u>Stocks fall sharply; Dow</u> gives back most of March rally



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