

# NW warning system could avert disasters

BY TOM PAULSON  
P-I reporter

The 1,000-mile-long tsunami streamed across the Indian Ocean on Tuesday's computer screen, demonstrating a new tsunami forecasting system under study in Seattle that may soon be used to help prevent disasters like this weekend's immense loss of life in Asia.

"This computerized recreation, done hours after the event, is part of a scientific effort here aimed at better protecting coastal communities from these unpredictable sea monsters."

"Our goal is to have results (a tsunami prediction) in 15 minutes or less" after an earthquake, said Hiro, a mathematician and computer modeler who is working on tsunami forecasting among a small, elite group of tsunami researchers at the National Oceanic and Atmospheric Administration's Pacific Marine Environmental Laboratory in Seattle at Sand Point.

The Seattle lab pioneered the first real-time early-warning system for tsunamis in the Pacific Ocean and is also a leading player in the ambitious international effort to accurately and rapidly forecast the path of these massive waves that follow a major deep-sea quake.

"It's more complicated than you might imagine," said Dr. Eddie Bernard, director of the lab and an internationally recognized leader in tsunami research.

Hiro's digital tsunami forecasting is still experimental, likely to be tested within a year. But had the

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THE FEEL MUSIC FASHION PEOPLE

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**FOUR HOT BANDS TO HEAR IN '05**

Local powers guide to a new wave at UConn

Portland-est: CBO has new energy get \$114,000 a month for life

## GOP wants vote data from King County

Party is likely sending bid to challenge Crist's victory

# Tsunami death toll soars in Southern Asia

IN HARD-HIT INDONESIA, 25,000 MIGHT BE DEAD



**IN THE BUSINESS**

**WORLD JUNCHES**

**NW warning system could avert disasters**

**WU chief mixes good**

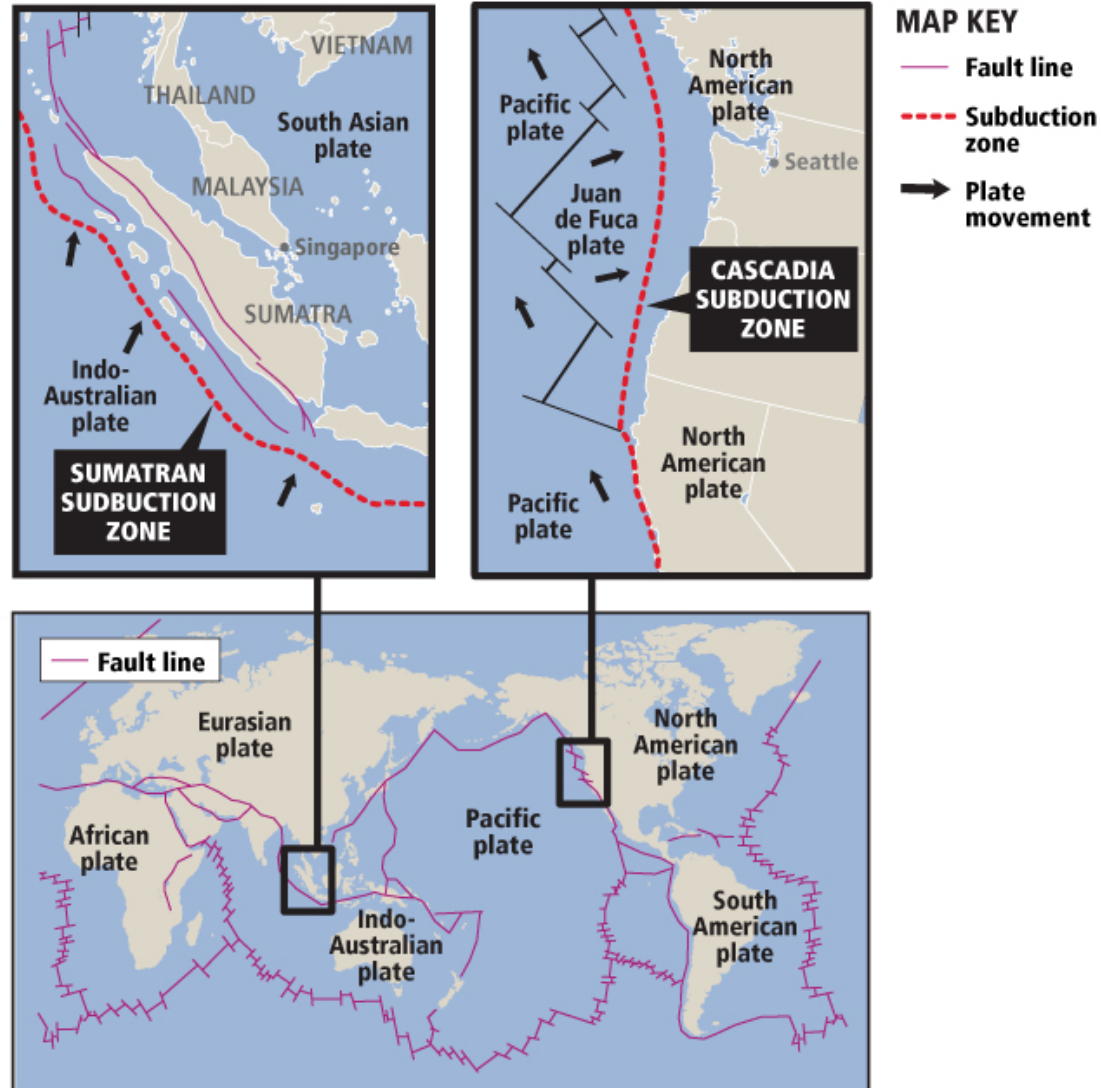
**LEAD**

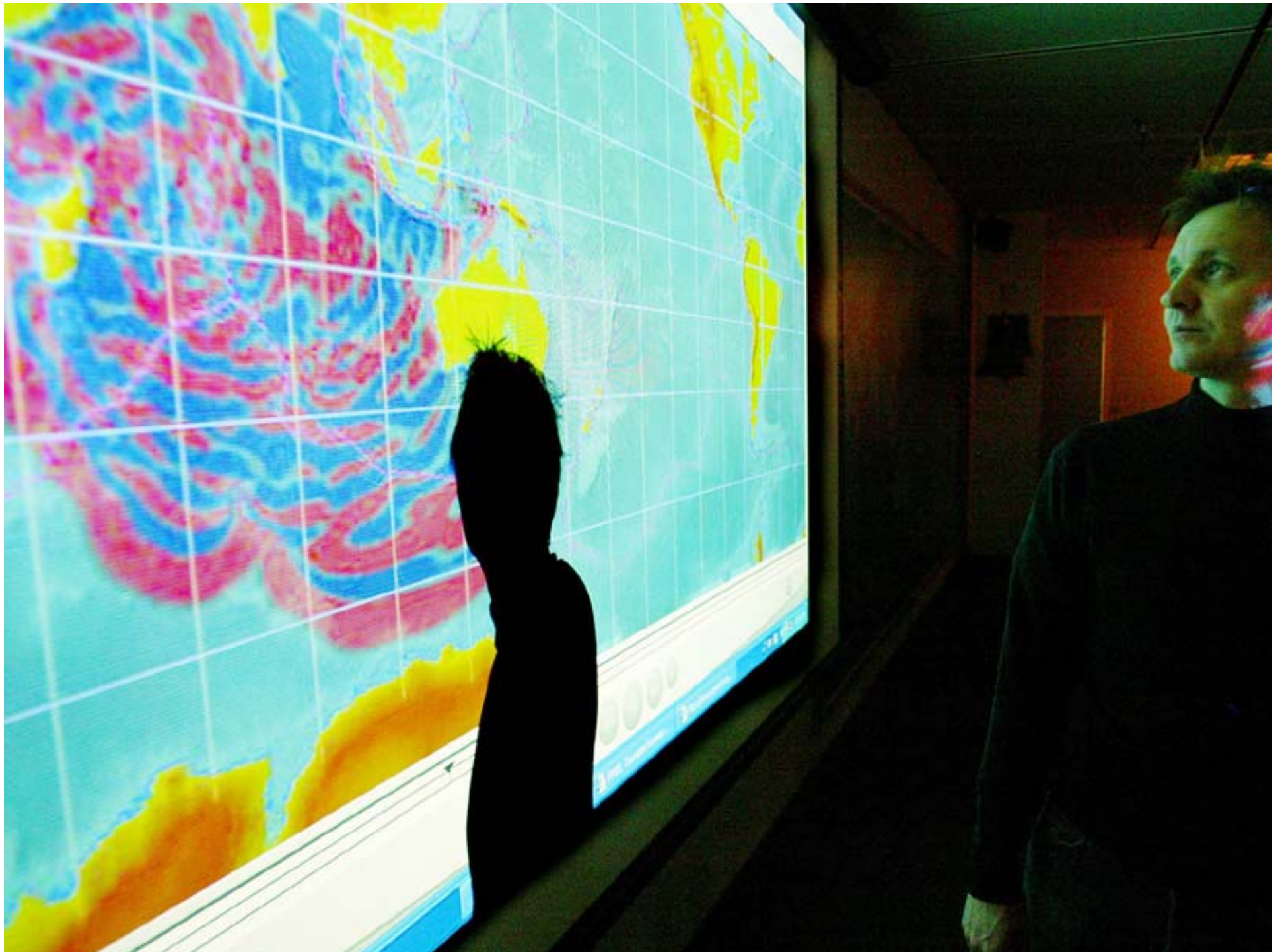
**Little ones were bigger victims**

**World junches a massive effort to help survivors**

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# Sumatra / Cascadia





# hunt for hidden clues

Scientists from U.S., around the world scramble into area

BY TOM PAULSON  
P-I reporter

While much of the world is focusing on how to help victims in tsunami-ravaged South Asia, scientists are starting to fan out in a search for clues.

Cornell University tsunami scientist Philip Liu is assembling his team in Sri Lanka, Oregon State's Harry Yeh's group is in India, a Japanese team has gone to Indonesia and various other scientists from Russia, Korea, Australia and elsewhere are on their way, hoping to unlock tsunami secrets that could lead to mini-

mal destruction the next time around. "Much of the tsunami evidence is ephemeral," said Bretwood Higman, a University of Washington tsunami researcher who is on Liu's team.

"I wish we could have gotten in sooner, but this is still an opportunity of a lifetime," said the 28-year-old Higman, whose specialty is in analyzing sediment deposits for a more precise look at tsunami behavior.

This is not just science for science's sake. A better understanding of tsunamis could lead to a variety of practical results in Washington and around the world, including faster, more accurate tsunami warning systems and ideas for how better to protect vulnerable coastal areas.

The scientists will do their work amid chaos and misery, a situation

SEE 5 SCIENTISTS, A7

IT'S OFFICIAL: PITT AND ANISTON HAVE SPLIT UP

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Age does matter in fertility treatments  
More women the harder it's working about time  
When women do bleed: Red Sea game hot?

### Microsoft to grow on its campus

Company will build 2.2 million sq ft of new office space

### Classes? Let 'em slide



### Rossi files suit for a new vote

Trying to nullify Oregonian, Republican files series of suits

### Military is stretched thin under the burdens of war

### Tsunami detectives hunt for hidden cities

Scientists search for clues to avoid the worst

Is his next 'Harry Potter'?

You can help pick a winner

Daylight: Get insight

SEE 5 SCIENTISTS, A7

## Sri Lanka may hold more answers about tsunamis

BY TOM PAULSON  
P-I reporter

COLOMBO, Sri Lanka — Along the capital city's main waterfront boulevard, Gallo Face Green, the scientists looked but could find no evidence of the devastating tsunamis that have claimed more than 300,000 lives on this teardrop-shaped island nation.

But just a few miles to the south, in a section of the city known as Mount Lavinia, it was a completely different story. A massive brick wall had been shattered and thrown inland by a wall of water estimated to have been about 15 feet above sea level.

Tsunamis are complex, unpredictable. One place,

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### INSIDE

**USS Abraham Lincoln helicopter crashes while on relief operation in Indonesia**

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MICROSOFT TO WAKE UP ALARM CLOCK TECHNOLOGY

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**PEOPLE** Highline 'Wo'keeper' finally adjusts to oblivion

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New leader had backing of U.S., Israel

**Downtown tall and skinny as that latte?**  
Mayor wants to raise height limit to match other cities, top exec

**EPIC STORMS DUMP ON CALIFORNIA**



**U.S. troops kill 8 after convoy is hit by blast**  
Dozens of soldiers

**Sri Lanka may hold more answers about tsunamis**

**Parachutes out in public schools**

**Big year ahead for big screen**

**Tough for feminists**

SEARCH

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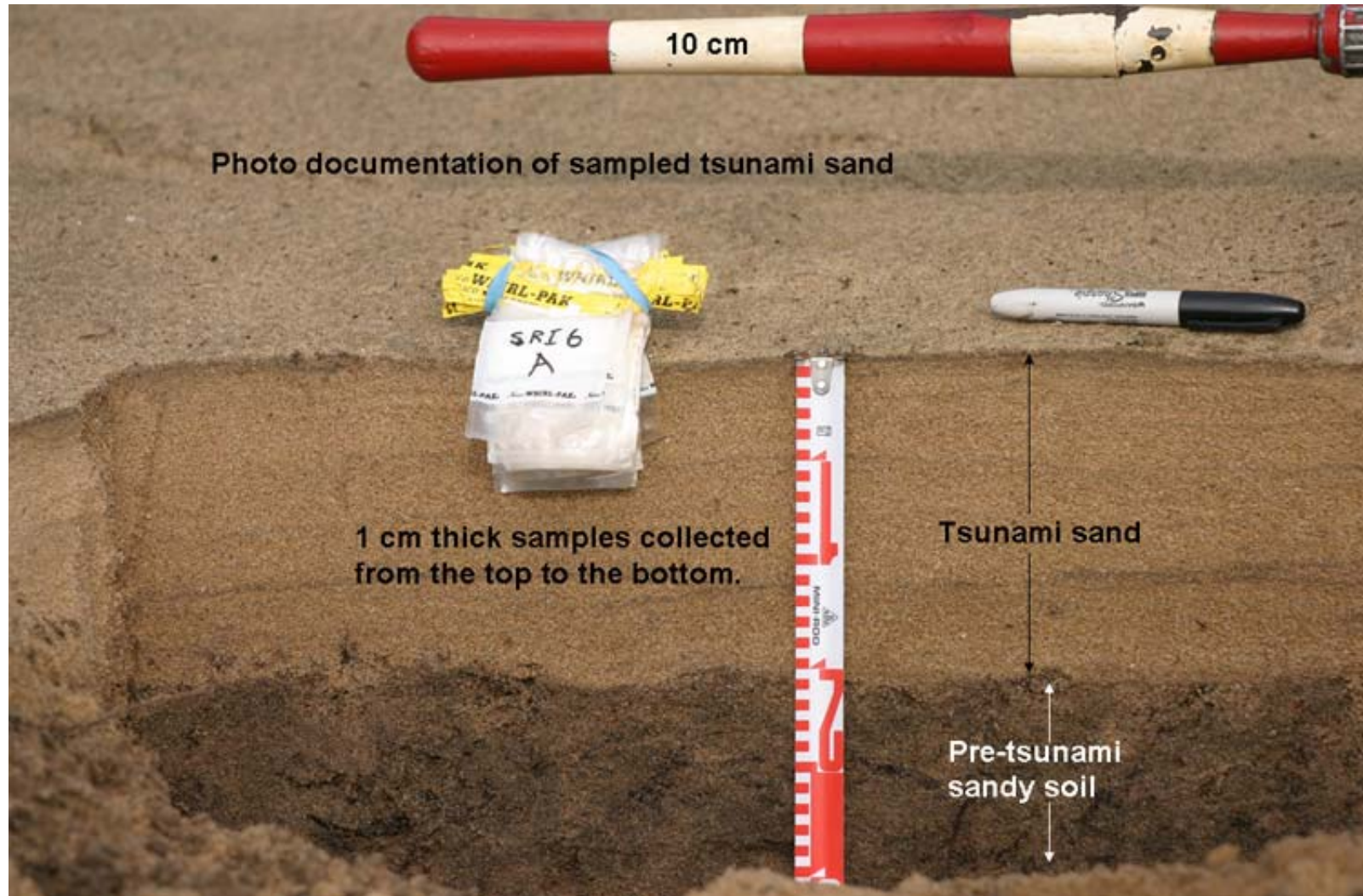
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# Tsunami Geology ...















# Tsunami experts examine waves' debris

Sri Lanka warns of land mines, kidnappers

BY TOM PAULSON  
Ft. Collins

TRINCOMALEE, Sri Lanka — Before they could get down to the business of why they came here from around the world — to try to unlock the mysteries of tsunamis — a group of scientists first got permission and advice from the Sri Lankan minister of defense on how to avoid land mines and kidnappers.

"He said the beach is fine, just don't go too far in to the woods," said Phil Liu, a tsunami expert from Cornell University, briefing a team sponsored by the National Science Foundation as they set out to rapidly collect this short-lived data.

**INSIDE**  
A once-scenic fishing village hit by the tsunami wants no part of the sea  
SEE A8

An Indonesian man sucked out to sea survives 15 days adrift

Along the hard-hit coast, where thousands were killed, the scientists exam-

THE UNWRITTEN RULES OF SPORTS — IN WRITING

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**HEALTH** New link between food and cancer

**FOOD** SQUID IS A CULINARY CATCH

**SACROWALL** Allen scores 21 to lead Sox in post-clippers

**TECH** Microsoft CEO quads Microsoft  
Apple offers a \$500 Mac

**Tsunami experts examine waves' debris**

### UW wants bioterrorism lab

New facility would research deadly pathogens

The University of Washington is planning a new \$100-million bioterrorism laboratory in the Rainier Valley area. The facility would be one of the most advanced in the world, designed to study deadly pathogens such as anthrax, botulinum toxin and smallpox. The lab would also be used for research on emerging infectious diseases and for the development of new vaccines and diagnostic tests.



**Sri Lanka warns of land mines, kidnappers**

TRINCOMALEE, Sri Lanka — Before they could get down to the business of why they came here from around the world — to try to unlock the mysteries of tsunamis — a group of scientists first got permission and advice from the Sri Lankan minister of defense on how to avoid land mines and kidnappers.



A CAPITOL DEFENSE

Pro-life demonstrators gathered at the U.S. Capitol in Washington, D.C., on Monday to protest the passage of a bill that would allow a woman to sue her doctor if she has a change of heart after an abortion. The demonstrators held signs and balloons, and some were seen shouting slogans.

### Bush kicks off push for Social Security proposal

Weather may hold up president

President George W. Bush on Monday kicked off a campaign to win support for his Social Security reform proposal. He made a surprise appearance at a town hall meeting in Washington, D.C., where he listened to questions from the public and defended his plan to privatize a portion of the Social Security trust funds. The president's appearance was the first of a series of events he will hold over the next few weeks to promote the proposal.

### Third mad cow case in Canada causes alarm

Canada's government on Monday announced a third case of mad cow disease, or bovine spongiform encephalitis, in the country. The case, which occurred in a cow in the province of Ontario, is the first since 2003. The discovery has caused concern among consumers and officials, as the disease can be transmitted to humans, where it causes variant Creutzfeldt-Jakob disease.



Lab for mad cow disease in Canada.

### U.S., EU to negotiate on Airbus, Boeing subsidies

The United States and the European Union are set to begin negotiations on subsidies for Airbus and Boeing aircraft. The U.S. has accused the EU of providing unfair subsidies to Airbus, while the EU has accused the U.S. of providing subsidies to Boeing. The negotiations are part of a long-standing trade dispute between the two nations.

**INSIDE**  
A once-scenic fishing village hit by the tsunami wants no part of the sea  
SEE A8

**FOOD** SQUID IS A CULINARY CATCH

**TECH** Microsoft CEO quads Microsoft  
Apple offers a \$500 Mac

**SPORTS** Allen scores 21 to lead Sox in post-clippers

**TRAVEL** Touring Hawaii safe for tourists

**ENVIRONMENT** Allow admits voting not safe

**ENTERTAINMENT** Touring Hawaii safe for tourists

Published by the Seattle Post-Intelligencer, Inc., 400 University Street, Seattle, WA 98101. Phone: (206) 464-1000. Fax: (206) 464-1001. Website: www.seattlepi.com



## 'Tsunami made the water . . . poison'

BY VIKI FARRIS

KONTOYA, Sri Lanka—In this poor but scenic fishing village south of the ocean, water is treasure. So, Radio shows two men in the boat while the husband, engineer and grandfather worked one piece of gear in his job morning by day.

Their boat is less than 100 feet from the broken shore. The 12-ft-tall, 10-ft-wide structure that was once the same height and width and length as the boat before, that sits on a way down on a rocky shore in the sea of the ocean.

Now, however, many show the respect of the sea as they do not go to the beach.

"I had a boat in the sea and it was my own. Now it's all gone," said Apollo. She said she had to see what was happening but had to be careful. A small boat was in the water and she had to be careful of the boat.

When Apollo, 3, was with Apollo, she was with Apollo. She was with Apollo. She was with Apollo.

"When the water came, my husband was with me. He was with me. He was with me. He was with me.



In Kontoyia, Sri Lanka, two young men clean up after a tsunami washed through their boat and out the back wall and roof. Both lost family.

skill. Both had members of the family who were supporting the boat. The boat was used for fishing and for other work.

And some people who had been with the boat were with the boat. They were with the boat. They were with the boat.

"When the water came, my husband was with me. He was with me. He was with me. He was with me.



MAP BY AP/WIDE WORLD

At least 100 people were killed in the area, and those who were left had their homes and other property destroyed.

"We have lost everything," said the woman. She said she had lost her home and her family.

More Sri Lankans are said to have been killed in the area. Some say they are still in the water.

"The tsunami made the water so dirty that it was impossible to drink. It was a real disaster."



SRI LANKA: Witnesses questioned.

Witnesses were questioned about the tsunami. They said they had seen the tsunami and that it was very powerful.

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SOURCE: AP / SEATTLE POST-INTELLIGENCER

## Studying the killer wave for clues that can save lives

BY TOM PAULSON  
Post-Intelligencer

BATTICALOA, Sri Lanka — Crammed into a humid army barracks for the night, a small group of American scientists — exhausted, dirty and excited — pulled out their laptops and launched into a verbal duel on "mudular boxes."

The tsunami survey team had been driving like mad, through territories held by the separatist Tamil Tigers and around the landmine warning signs, trying to trace some small, unimportant wanderers of this killer wave on the east coast of Sri Lanka.

Finding no hotels available here after the destruction, they found shelter (through a Sri Lankan associate) among the soldiers.

The phenomenon they were debating, in which a single wave type known as a "bore" splits into

SEE WAVE, A6

IS PRESIDENT BUSH'S INAUGURAL TOO EXTRAVAGANT?

# Seattle Post-Intelligencer

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NEWS: Does help to keep M.L. King's wife alive  
WORKS: THEY'RE GOOD 'COMPANY' TO KEEP  
LEADERSHIP: Airbus gets a boost as Boeing is sidelined  
LIFESTYLE: UK opt to with Duke's No royal, warm fall

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## Boeing to shut down 717 jet line

Announcement today; fate of workers at Calif. plant uncertain

Boeing Co. announced today it will shut down production of its 717 jetliner at its plant in Everett, Wash., by the end of the year. The move is part of a restructuring plan to focus on larger aircraft. Boeing is expected to announce the fate of the 717 workers at its plant in Everett, Wash., by the end of the year.

---

## Child-killers walk free in wake of rulings

Rulings will be most difficult in cases involving infants, toddlers

A judge has ruled that a child-killer who was sentenced to life in prison for the murder of a 2-year-old child can walk free. The ruling is part of a series of decisions that have led to the release of several child-killers. The rulings will be most difficult in cases involving infants, toddlers.

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## Seattle bruised but wiser

Five years ago today was the beginning of the end of tech boom

Five years ago today was the beginning of the end of the tech boom. The dot-com era was in full swing, and Seattle was the epicenter. Today, the city is bruised but wiser. The tech boom has left a lasting impact on the city's economy and culture.

---

## Governor hits road to 'heal'

First day spent through that road for road

Governor Chris Gregoire has taken a road trip to promote a new initiative to improve road conditions in Washington state. The first day of the trip was spent traveling through some of the most scenic and challenging roadways in the state.

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## Studying the killer wave for clues that can save lives

BY TOM PAULSON  
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# Secrets of tsunamis not easily revealed

BY TOM PAULSON  
P-7 reporter

COLOMBO, Sri Lanka — Before an audience hungry for answers, a group of American tsunami scientists spoke of some tantalizing findings, but said they remain far away from understanding and explaining the massive Dec. 26 tsunamis that have killed more than 150,000 in Southern Asia.

"We still don't have all the data we need," cautioned Phil Liu, a tsunami expert from Cornell University and leader of the scientific team sponsored by the National Science Foundation.

The scientists presented their

findings over the weekend to Sri Lanka's minister of science and about 100 engineers, academics and other dignitaries after a hectic week of observation and analysis amid chaos and misery.

One location on the other side of the planet with a similar risk profile kept coming up in the discussion — the Pacific Northwest.

Costas Synolakis, a University of Southern California tsunami researcher who led studies on the southern coast of Sri Lanka last week, cited the network of deep-ocean tsunami detectors designed and built in Seattle at the Pacific Ma-

SEE TSUNAMIS, A9

HE DIDN'T EVEN KNOW HE HAD A NAIL IN HIS HEAD

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**SALESPERK!** Alien scores 27 as Soxies hold off Cavaliers for 27th win

**AWARDS!** **GOLDEN GLOBES** Tr. "Ice Cream," "UpTack," "Arrested" among the winners

**LIST** Free Internet's baby job now just a rag for some Queens

MONDAY, JANUARY 14, 2002

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### Hopes fade for crewman of crab boat

Dy to 5 feet from 2nd vessel in being for an opening log

Seattle resident... (text continues)

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### Upbeat, but wary of Bush

Toll says most Americans optimistic on 2nd term, but Iraq is top concern

WASHINGTON... (text continues)

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### PRAYERS FOR DISASTER VICTIMS



... (text continues)

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### King's dream lives in Seattle youths' volunteer spirit

... (text continues)

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### Secrets of tsunamis not easily revealed

... (text continues)

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### Toll passes 162,000; U.S. easing back relief

... (text continues)

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**FREE** **RECIPE** **COMMENTARY** **SPORTS** **OP-ED**

**A chilling entry on a 'kill list'**

**Tiny, fat, but are they safe?**

**Business protest cuts**

... (text continues)



# Tsunami expert

BY TOM PAULSON  
PA reporter

COLOMBO, Sri Lanka — All the tsunami detectives over here keep referring to a guy in Seattle named Brian Atwater.

Most Pacific Northwest residents likely have heard that a massive magnitude 9 earthquake, much like the Sumatran quake on Dec. 26, spawned a killer tsunami off the Washington and Oregon coast more than 300 years ago.

What might not be as well known is why we know this, and how recently it was that we didn't and were at risk of a similar deadly surprise.

"It really wasn't until Kenji Sa-

take's paper in 1996 that they all finally shut up about it," Atwater, a U.S. Geological Survey geologist and "paleoseismologist" at the University of Washington, said in an interview about his work in Seattle.

The normally mild-mannered Atwater still gets irked thinking about what he had to go through to get his ideas accepted.

"They" were the quake and tsunami experts who in the 1990s said that Atwater was just flat wrong about the risk from the Cascadia Subduction Zone.

It wasn't just a sleeping fault, most people said; it was dead.

Tsunamis? That's just a Japanese word. Everyone knew the Northwest

## Tsunami expert had tough case to prove

**BY TOM PAULSON**  
PA reporter

SEATTLE — Brian Atwater, a U.S. Geological Survey geologist and paleoseismologist at the University of Washington, has a tough case to prove. He's been saying for years that a massive earthquake and tsunami struck the Pacific Northwest coast more than 300 years ago. But many experts in the field have said he's just flat wrong.

Atwater's theory is based on geological evidence that he and other researchers have gathered over the years. He says the evidence shows that a massive earthquake and tsunami struck the Pacific Northwest coast more than 300 years ago.

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**PAULSON** / Willowitz hopes U.S. aid will mean closer ties with Indonesia

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## TSUNAMIS: Undersea canyons implicated

Undersea canyons may have played a role in the massive tsunami that struck the Pacific Northwest coast more than 300 years ago, according to a new study by researchers from the University of Washington and the University of British Columbia.

The study, published in the journal *Geology*, suggests that the tsunami was triggered by a massive earthquake that caused a large section of the seafloor to slip. This slip caused a massive displacement of water, which then traveled across the ocean and struck the Pacific Northwest coast.

The study also suggests that undersea canyons may have acted as a natural amplifier for the tsunami, causing it to reach the coast with a much greater force than would otherwise be expected.

The researchers used a combination of geological data and computer modeling to reach their conclusions. They found that the presence of undersea canyons significantly increased the height and energy of the tsunami waves.

The findings have important implications for understanding the risk of future tsunamis in the Pacific Northwest. They suggest that the presence of undersea canyons could make the region more vulnerable to catastrophic tsunamis.

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Income Tax	98.99%
Capital Gains Tax	99.99%
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# A scientist toils as survivors

BY TOM PAULSON  
P-I reporter

ULLAI, Sri Lanka — Just over the hill from where Stan Fernando was taking sand samples and measuring how far the tsunami ran up on land was a fresh mass grave with about 250 bodies.

"We were lucky to escape," said Naush-

ad Ahmad, 42, who had owned a small beach hotel that was obliterated by the waves. "We knew it was not a normal wuvu."

Fernando, a Sri Lankan geologist, came to this tiny fishing and tourist village on the east coast of Sri Lanka, where a team of American tsunami experts had left off. Here in Arugam Bay, where about 700

M'S SIGN AARON SELE TO ONE-YEAR DEAL

# Seattle Post-Intelligencer

25¢

Are the new salary guidelines workable?

**STARS OF THE YEAR**  
A Denman led team to title  
A Moore died in a water polo

**DETAWAYS**  
Whelan's new ski run on a rock

## Viaduct funding 'impossible'

Sen. Murray says U.S. won't put up \$1 billion

**All dressed up, tightly locked down**

"It's the first time to freely choose... it's like a dream"



**To vote, U.S. Iraqis go the distance**

**A scientist toils as survivor**

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Mixing health plan

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Stylish warm-up

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'Disparate' this

**CRIMINAL**  
And the nomination goes to...



# In Sri Lanka, scientists feel post-tsunami wrath

BY TOM PAULSON  
P-I reporter

COCOMBO, Sri Lanka—In the aftermath of the tsunami that killed about 40,000 people in Sri Lanka, scientists here are defending themselves against allegations of homicidal incompetence or outright neglect for not sounding a warning.

"We had technical problems, and perhaps lack of competence, but claims that we could have acted to save anyone are based on a basic misunderstanding," said Chandra Jayasinghe, a geologist at the University of Peradeniya, Sri Lanka's largest university located hours inland and high up in the lush, green hill country.

"It's absurd," said P.G.R. Dharmaratne, chairman of the country's Geological Survey and Mines Bureau. "How could we have informed our people when the world's tsu-

SEE SRI LANKA, A7

## INSIDE

Indonesia, rebels agree to cease-fire talks

SEE A7

Senator's bill would provide better alert system for Pacific U.S.

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HUSKIES BEAT VISITING COUGS • SONICS BLOW OUT JAZZ

# Seattle Post-Intelligencer

**FOOTBALL** **EAGLES, PATS TO FACE OFF IN SUPER BOWL**

**COMMENTS** **NAACP leader Carl Mack is loving — here's why**

**SPORTS** **'Apartment' spurs frenzy in West alle and a burger**

JOHNNY CARSON: 1925 - 2003



**He tucked America in with a laugh and a grin**

JOHNNY CARSON, 77, died of a heart attack at his home in Los Angeles on Saturday. He was the most popular and longest-running host of the NBC television comedy show "The Tonight Show."

LIFE IN THE NORTHEAST — DIG IT



After a snowstorm, a person walks through a deep snowdrift in a city street in Washington, D.C., on Saturday. The snow was piled up by a snowplow that had cleared the street.

## U.S. vows efforts to protect Iraq vote

Beige comes as rebel leader declares 'war' on democracy

U.S. officials say they will do everything possible to ensure a free and fair election in Iraq. The U.S. is providing security for the election and will be monitoring the process. The U.S. is also providing training for the Iraqi security forces. The U.S. is also providing humanitarian aid to the Iraqi people.

## Taller, denser U District could be coming

A study of the U District in Seattle shows that the area is becoming more densely populated. The study found that the number of people living in the U District has increased significantly in recent years. The study also found that the U District is becoming more diverse in terms of race and ethnicity.

## In Sri Lanka, scientists feel post-tsunami wrath

Scientists in Sri Lanka are feeling the wrath of the public after the tsunami. They are being accused of incompetence and neglect for not sounding a warning. The scientists are defending themselves and saying that they did everything they could to save lives.

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**CENTRAL SEISMIC OBSERVATORY  
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**TECHNICAL COOPERATION BY THE  
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APRIL 2003**





# Lessons Learned?

- What does the Indian Ocean tsunami tell us about Cascadia?
- Are we ready for the same thing



# 'Tsunami on its way, gonna happen any day'

## Preparedness, resignation at coastal summit

BY TOM PAULSON  
P-I reporter

LONG BEACH – Not ready. That may best describe the basic consensus after a daylong "Coastal Tsunami Summit" in this community recognized as one of the most prepared in the nation for the kind of killer waves that rolled across the Indian Ocean Dec. 26.

Stephanie Fritts, director of emergency management for Pacific County, has been trying for years to

convince residents here that they can – and should – plan to survive a tsunami. The Indian Ocean tragedy, she said, has gotten everyone's attention and also drawn attention to how much more needs to be done.

"There are things we can do to improve our chances," she said, even though Long Beach is among only about a dozen communities nationwide (along with Ocean Shores and the Quinalt Indian Reservation) to

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THE BEST OF THE BLOOMIN' FLOWER SHOW IN SEASIDE

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ENJOYING OUR OWN GREAT LAKE  
Eun Griffith: Dreaming of it is not only OK, it's a good idea

Culture clash: Jane Fonda meets Bettywood

THE OTHER VIEW FROM THE TOP  
Needle point is part of one's formidable army of working gear

Routine testing for HIV urged  
Researchers say new drugs are effective, but only treatment needed

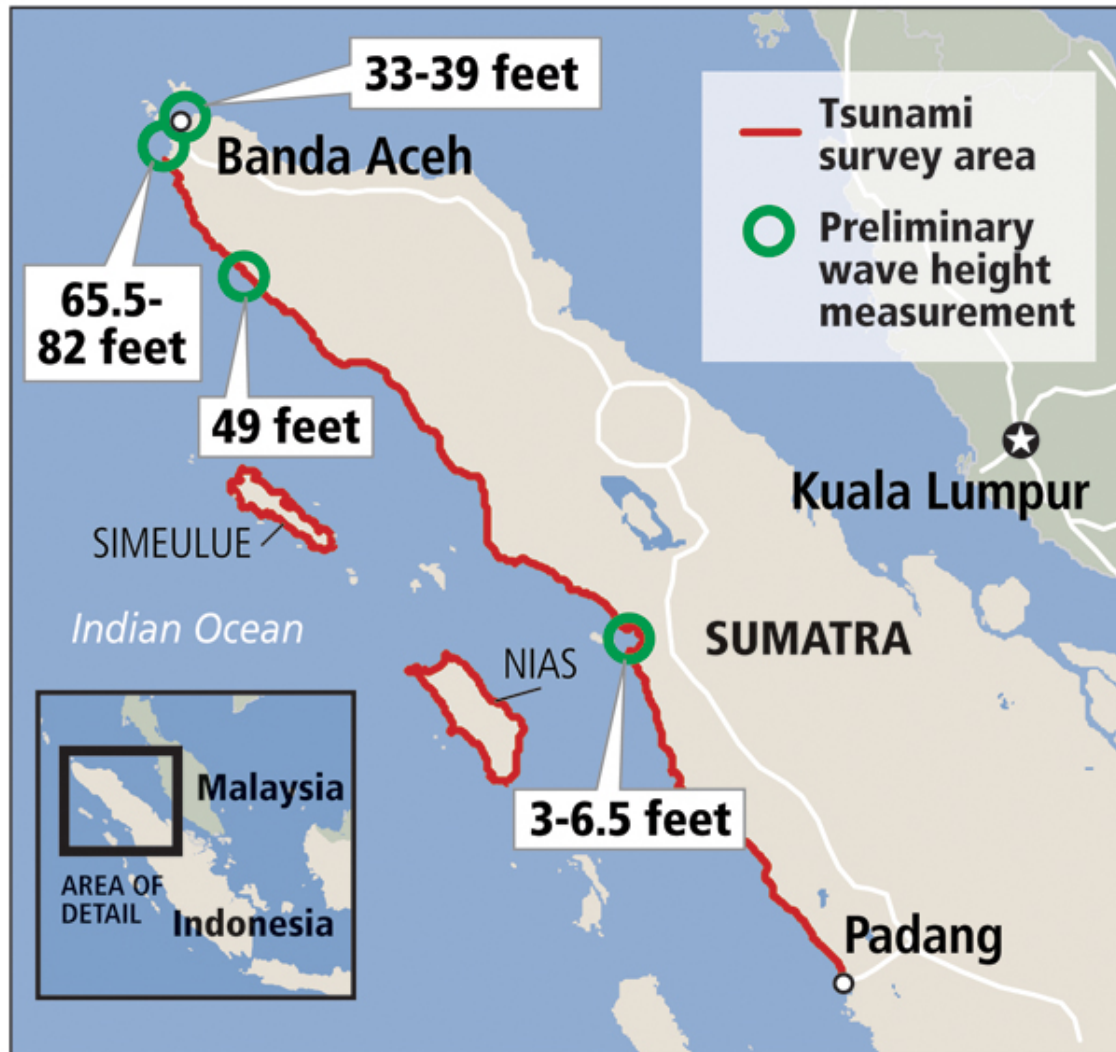
Urban youths create show's best garden

Tsunami on its way, gonna happen any day  
It's a matter of when, not if

Oh my, girl – Stylus is flying

Carly Fiorina is forced out at HP

hp



# 80-foot waves blasted Indonesia, scientists now say

BY TOM PAULSON  
P-I reporter

Scientists studying the Indian Ocean tsunami have discovered startling evidence that the killer waves, at least for one coastal area in northern Indonesia, were much larger than earlier believed.

The new findings, of keen interest worldwide to researchers seeking insights into the mechanics of this disaster, also mandate a disturbing suggestion that the experts have significantly underestimated the magnitude of the tsunami threat in the Pacific Northwest and perhaps to coastal communities around the Pacific Ocean.

"It's just staggering," said Andrew Moore, a scientist at Kent State University who was on a research team, led by Yoshinori Tsuji of the

University of Tokyo, that recently returned from studying the wave's trail of destruction on the west coast of Sumatra.

Moore, Tsuji and their colleagues found preliminary evidence the tsunami's trough along an extensive section of shoreline south of the city of Banda Aceh averaged about 80 feet above sea level, with "run-ups" on inland slopes often reaching well over 100 feet. They estimated the wave's average velocity on shore at 45 feet per second.

"It's mind-boggling to think about," said Vasily Iliou, a mathematician and tsunami computer modeler at the Pacific Marine Environmental Laboratory in Seattle. The lab, operated by the National Oceanic and Atmospheric Administration, is part of some of the

SEE WAVES, A6

THE SCARIEST COMPUTER BUGS ARE KEYBOARD GERMS

# Seattle Post-Intelligencer

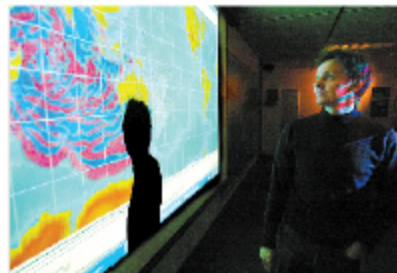
WEDNESDAY, FEBRUARY 1, 2002

**TECH** Plugging into a private universe

**SPORTS** VICTORY DOWN PAT How the Seattle Seahawks have become the perfect team

**HEALTH** Juice can increase fat risk for kids

## 'This has serious implications for all of the West Coast' Supersizing our tsunami threat



80-foot waves blasted Indonesia, scientists now say

Scientists studying the Indian Ocean tsunami have discovered startling evidence that the killer waves, at least for one coastal area in northern Indonesia, were much larger than earlier believed.

## Canada's radical plan for social costs of heroin use

Canada's radical plan for social costs of heroin use involves a \$2.5-billion program to reduce the damage caused by the drug.

## Insurgents unleash a new burst of violence

22 Iraqi troops reported killed; four Egyptians kidnapped

Complaints of election flaws cloud official vote count

## Bush budget targets 150 federal programs

Bush budget targets 150 federal programs for elimination or reduction.

**TECH** **VOYAGE** **SPECIAL REPORT** **COMING UP** **WORLD**

**hard work, hard times**

**Rediscovering our great lake**

**Miss makes peace pact**

# Tsunami scare exposes glitches in warning system

The coastal communities of Washington never get the automated emergency radio tsunami alert issued by the National Weather Service.

BY TOM PALSON  
Staff reporter

It was the seventh inning and the Mariners were up by two over the Phillies when California stadium administrator Ernie Kelsey, sitting with a group of colleagues overhead, heard the words: "Quake ... tsunami warning ... Pacific."

The Humboldt University professor quickly borrowed a cell phone from a colleague to call his geologist wife at their home six miles away from Bodega, Calif. — 80 miles

from an offshore earthquake that, at first, he thought was likely estimated as magnitude 7.9 and considered capable of generating a dangerous tsunami.

"We haven't had a tsunami warning on the California coast in many years," said Kelsey, who rescued his wife and babies (initially he thought the babies were dead). They were able to elude long enough for him to confirm she was OK and to ascertain that, because of the location of the earthquake, a significant tsunami

SEE TSUNAMI, A3

TIME TO JUMP INTO SUMMER BOOKS FOR CHILDREN

## Seattle Post-Intelligencer

50¢

**REALITY** Doctors debate of child to donor

**TRAVEL** OREGON'S SEASIDE SENSATIONS

**BASEBALL** Solo gets his own book by M's pitcher over Phillies

**POETRY** No job: The state may have your cash

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### Tsunami scare exposes glitches in warning system

THE SCARE ...

... was the seventh inning and the Mariners were up by two over the Phillies when California stadium administrator Ernie Kelsey, sitting with a group of colleagues overhead, heard the words: "Quake ... tsunami warning ... Pacific."

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SEE TSUNAMI, A3

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### House acts to roll back powers of Patriot Act

Resident would make records of "franks, bookstore off-limits"

... The House of Representatives today passed a bill that would roll back some of the powers of the Patriot Act, which was passed last year in the wake of the Sept. 11 terrorist attacks. The bill, known as the USA Freedom Act, would limit the government's ability to collect and analyze the communications of U.S. citizens and to monitor the activities of U.S. citizens who are suspected of being involved in terrorism.

... The bill would also require the government to provide more oversight and transparency in its surveillance activities. It would require the government to provide more information about the scope and nature of its surveillance activities, and to provide more information about the results of those activities.

---

### Crusader begins fiercest fight

Animal activist Ben White never expected a cancer battle

... Ben White, a 62-year-old animal activist from Seattle, is in the middle of a fierce fight with cancer. He was diagnosed with prostate cancer last year, and has since undergone several rounds of chemotherapy and hormone therapy. Despite his illness, White remains active in his work as an animal activist, and is currently fighting to get a bill passed that would ban the use of animals in medical research.

... White's fight is not just for himself, but for all animals. He believes that animals should be treated as individuals, and that they should not be used as mere tools for human progress. He is currently leading a campaign to get a bill passed that would ban the use of animals in medical research, and is hoping to see it passed in the next few months.

---

### Starbucks adjusts its formula in China

Moves old food and some new to suit culture but doesn't take its coffee to us

... Starbucks is adjusting its menu in China to better suit the local culture. The company has introduced a variety of new products, including traditional Chinese pastries and teas, and has also modified its coffee offerings to better suit the tastes of Chinese consumers. However, Starbucks has not introduced its signature coffee drinks to the Chinese market, which has led to some criticism from coffee enthusiasts.

... Starbucks CEO Howard Schultz said that the company is committed to providing a high-quality coffee experience in all markets, and that it is excited to see how its products are received in China. He also said that the company is committed to supporting local businesses and communities in the region.

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**MARKETS** Stocks rise as investors bet on economic recovery

**ACROSS THE COUNTRY** Basing ahead in race for orders

**COMING UP** BAM! The new museum works

**SPORTS** Mariners' new pitcher gets his own book