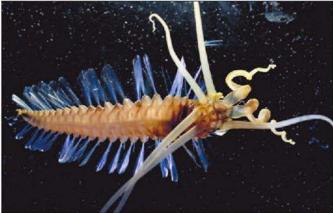
100 Iran moderates on trial: Critics call the mass indictment baseless. WORLD, A18

2 slain at gay teen center in Israel: Tel Aviv activists blame the ultra-Orthodox. world, A20



# A deep dive into the great mysteries of life

A sea catalog-in-progress has already upended scientists' views.

Bon Direction

The first comprehensive effort to identify and catalog every species in the world's oceans, from microbers to blue world's oceans, from microbers to blue whales, is a year from completion. But early discoveries have profoundly albered early discoveries and profoundly discoveries. The earliest of movement and infigurate between Los Angeles and Yokohamas, Japan; one Los Angeles and Yokohamas,

#### Justice is a trial for witnesses in Russia

Valery Kazakov was almost to the prosecutor's office when the killers caught him. He was shot as he cut through an alley-way, and when he stumbled bleeding into the street, a man bent down to stab the final breaths out of him.

It was a 'eticlek' in the afternoon, in the beart of the sleepy to the steepy to the steepy to the steep to the steepy to the steep to the st

husband, who ordered and paid for it.

"Maybe we'll find out, if the killer isn't killed before he starts talking." Kazakova pauses, staring down into her coffee cup. "Nothing is clean in Russia."

### The making of a message

her ian't killed before he tarts talking." Kazakova tuses, staring down into her free cup. "Nothing is clean in issia."
Issi at he "legal nibilism" [See Russia, Page A22]

He sat with his legs crossed in an armstarl in the Oval Of-fee, his brow Eurowed. Aides free cup. "Nothing is clean in issia."
Lustered on the couches around him. They could see black scratch marks all over their proposal for the most sen-

## Film workers claim illnesses rooted in soil

Dozens with health problems blame a Downey movie studio built on a former NASA site.

RICHARD VERRIER

In 34 years as a front root of the missed of aday of work. Now he can barely pull himself out of bed.

His medical records describe a daunting array of all-ments: chest pains, headaches, dizziness, memory loss, red blotches and pimple-like bumps. He says he has trouble breathing at night and wakes up with tremors.

Lumi Turces these symptoms to the three months he spent at Downey Studies in 3604 and 2000 building sets for the science-flict his purpose of the state of the science of the state of the set of the science of the set of th

about 500 keV consenses and the second second spacecraft for the Fat of the property was turned into a film production center early in this decade, after a cleanup intended to protect workers and the public from the toxic residue of years of aerospace research and manufacturing. The transformation was oelebrated as an example of how old industrial sites, often a burden on comminities, can be reclaimed for productive uses.

But carpenters, welders, electricians and other film production workers say they developed severe respiratory and other problems which working other and have severe respiratory and other problems which working other and have severe respiratory and other problems which working other and have severe respiratory and other problems which working other and have severe respiratory. The consequence of a symptoms—chronic congestion, beadaches and rashes. Some have even relaxed to work there, a rare phenomenon in the tough, blue-collar world of set construction.

At least 34 people have filed workers' compensation claims over illnesses they trace to the studio complex. The Times they have obtained detailed records on 18 of the [See Downey, Page A14]

#### **FAMOUS** CHURCH, BESIEGED PASTOR

As some seek to oust the head of L.A.'s First AME, he stands firm.

TERESA WATANABE

Nearly five years after replacing a legendary pastor in one of the nation's most promisent African American pulpita, the Rev. John J. Hunter counts his blessings.

Bince taking the helm of the First African Methodst Episcopal Church of Los Angeles in Cotober 2004, Hunter says, he has been privileged to bring 3,000 new souls to Jesus, the has been privileged to bring and helm of the same for children deprived of summer school by budget custs. His church shines with hardsome new pews and carpets, a repaired of particular to the same school by budget compositions are proposed to the church recently joined a \$50 million deal that Hunter says could help revitable the congregations were also successful to the church recently joined a \$50 million deal that Hunter says could help revitable the congregations were also successful to the church recently joined a \$50 million deal that Hunter says could help revitable the congregations were successful to the course of the proposed to the course of the previous the complete of the previous the composition of the previous the complete of the previous the course of the previous the previou

"It's amazing what we've ac-complished," said the 52-year-old pastor. "The overwhelming majority of people are pleased



#### EUROPE ON TWO WHEELS

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SEE-THROUGH: This transparent pink sea encumber, as its full (and fully visible) gut attests, has recently dired. It eats on the ocean floor and uses its wing-like collar to swim.



VARIABLE: This squid, Histioteuthis sp., is about 6 inches long and is covered with spots, called chromatophores, that let it change color at will. Its eyes are different sizes.



GHOSTLY: This 1.2-inch-long isopod, a relative of the land-dwelling pill bug, was collected
1% miles down in the Celebes Sea, off Boraco, from a remotely operated vehicle.

DECEPTIVE: Scientists believe this transparent jellyfish has red pign
to keep bioluminescent prey from advertising its whereabouts to largest



# Finding strange new worlds

[Marine, from Page, A1]
track tash 90 tules news,
Census teams also embarked on
about, 400 shipboard expeditions.
They discovered life forms faster than
they could verify and name — more
than 5,000 suspected new species so
far, many from the bottest, coldests,
saltiest and deepest parts of the
occans.
They also found a very old species, as shrimp that textbooks said had been
extinct for 50 million years. The fivetinch specimen, with big eyes and red
spots, was found swimming a mile beneath the ocean off northeast Australia.

agons, was round swimming a mine of the characteristic control of

the pulses are erts.

The proof came when scientists used fine-mesh sieves to trawl nearly three miles down. To their surprise, they scooped up tens of thousands of swimming snalls, worms and other



VOYAGE: The Consus of Marine Life embarked on 400 shipboard ex-peditions. The study is seen as "the Rosetta Stone for the future."

The census, which will be released in October 2000, is cataloging even the smallest of organizator, such as bacteria and the single-celled microorganisms called unrehen. Scientists suspect they play a role in the carbon and utropen cycles, which are crucial to suscenting life.

We be to clearly groups underest.

sustaining life.
"We have clearly grossly underesti-

peditions. The study is seen as "the Roserta Stone for the future."

It improve the seen before.

"Probably the greatest diversity of let is in the deep sea," said Fred Grassie, director emeritus at the Institute of Marine and Coastal Sciences as Rutgers. University. In New Jersey.

The census, which will be released in October 200, is cataloging even the smallest of organisms, such as bacterian and the single-celled microorganisms called archives. Scientists suspect they play a role in the carbon and nitrogen cycles, which are crucial to usual training to the control of the specific proceedings of the supposite and of the single-celled microorganisms and the single-celled microorganisms and the single-celled microorganisms and the single-celled microorganisms. In addition, forensis historians sustaining like.

In addition, forensic historians present and future. mistake to crawl out onto working on the census examined ancient Greek texts, pre-linean pottery is to who work alone or in small groups. bob.drogtnel latimes.com

City Public Library in hopes of documenting man's impact on the world's
oceans.

In any page, they found Renaisman any sensitings of this inmakets
with seafood that no longer exists in
local waters. In North America, custoris records and captains' logbooks
indicated that fishermen in the Gulf of
Maine hooked 20 times more cod in
1890 than commercial fleets do today.

The bottom line: Overrishing had
considered the fisher of the control
1890 than commercial fleets do today.

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considered the control
1890 than commercial fleets do today.

What we're seeing is the loss

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What we're seeing is the loss

What we're seeing as the loss

What we're seeing at the University
Xill is fee places, 'asid Andrew Rosenberg, a professor at the University
Of New Hampshire: "We've never had
this kind of data."

Ausubed and Grassle hatched the
idea of surveying every species in the
see while working from a ramshackle
office at the Woods Mole institute in
July 1896. 'Almost everyone said it was
craxy,' asid Ausubed, a senior research
associates at Robeckeller University in
New York.

New York.

The Almost Person Foundation to provide funding. Governments
and other foundations later chipped

tion to provide funding. Governments and other foundations later chipped

The scientists set three goals. First, they would build a global registry of every marker life form, worms to walrasses, as a baseline for research and public policy. Second, they would many where each species lives and turvels to better understand its habitat. Lastly, they would assess the relative abundance of each organism — past, present and future. Most marker biologists are special-

The census has changed that. About 2,000 scientists in 80 countries have joined forces in the largest collaboration in the history of oocan science. "This was a field in need of a revolution," said Ann Bucklin, who heads the marine sciences department at the University of Connecticut. "It has opened up global oceanographic" of fort to compile a 'bar code of life' that uses DNA sequencing to defentify each marine species. Until now, eyeballing a crab, coral or cod was the only way to identify it. Tiny zooplankton were even tougher.

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