PASSAGE 3

GLOBAL WARMING—
THE LAGOON OF THE
VANISHING FISH
WHERE ARE YOU?

I CAN'T SEE A NIPPO-CHAN!!


FLAMMABLE

EXPLOSIVES
ENOUGH BROKEN-HEART THERAPY!

TIME FOR A WATER WORKOUT!
WOW! IT'S LIKE SWIMMING IN A FLOWER GARDEN!
DON'T TOUCH VENUS OR MARS.

WHERE NOT TO GO.
BUT WE NEVER TOLD ME WHERE TO GO.

I DON'T WANT TO HOLD HANDS.
I'M A BIG BOY.

BUT WE DON'T HAVE TIME FOR THIS.
THE SUNDERS ARE COMING.
WHERE ARE YOU!?
WHO WHERE
WHAT THOUGHT YOU KNEW, SCIENCE? I'M HERE TO FIND MY FAMILY.

WE'RE FROM WALKER VILLAGE, ON THE MAINLAND ARE YOUR PEOPLE FROM THERE?

MAYBE WE HAVE NEWS OF THEIR

WE HAVEN'T SEEN THEM IN YEARS...
The fish ain't been biting since the Westerners came to our island, but I might have beginner's luck.

THANKS...

ARE YOU A WESTERNER?

I came from west of some place, east of others, too. I guess, south of sun, and north.

SUN...

GOOD ANSWER.

SOME TIME AGO, IN THE LAKE, THERE WAS A YOUNG MAN... WHO MADE A VILLAGE COME TO FISH MY FAMILY, NOW THEY COME TO KEEP THE YOUTH ON THEIR SHANKS!

I DON'T KNOW WHERE THE FISH LIKE TO HIDE. WHICH MONTH OF THE YEAR, WHAT TIME OF DAY THE FISH LIKE TO BITE BEST?

AGH!!! YOU TALKED!

I KNEW AN OLD MAN COMES ON TO HAMANO, NONO, BUT WE JUST WERE IN THE FISH FOR A FEW MINUTES YESTERDAY.
Yes, from what I have learned, fish do breathe oxygen. They have structures called gills that filter oxygen out of the water. Actually, it's a bit more complex than that. Gills are adapted to extract oxygen from water, not air.

Besides, the water here is not as oxygen-rich as you might think. The fish have evolved to cope with it, but it takes a strong commitment from the microbes and other life forms in the lagoon to keep it healthy.

But it will take a lot of work to maintain it. We need to keep the water clean and the fish healthy. It won't be easy, but it can be done.

Still, I'm glad we're doing this. It's for the sake of the lagoon and the fish. We can do it, I'm sure.

Yes, we can. We've been through this before. We can do it again.

What a day! I'm so glad I got to spend it with you. And the fish, of course.

Lost some fishies, huh? Oh, well, it's not the end of the world. We'll just catch more.

This has been an exciting day, hasn't it? I've never seen so many fish in one place before.

But it's not over yet. We still have work to do. Let's get started!
One step by Browning Beach, the old army fish is planting trees in the place to save their scenic!

"Great!" said Mr. Smith. "We can fish here!"

"But wait... we're not sure..."

Mr. Smith explained the history of the area's previous vegetation, noting:

"No more fish will be found here..."

Mr. Smith knew the importance of saving the floras and faunas from contamination. The trees will help create a cleaner environment.

"No more fish will be found here!"

Mr. Smith was concerned about the contamination of the area, and the trees will help create a cleaner environment.

"The ones we're planting are only resistant!"

"We have to plant trees to save the fish!

"But wait..."

"No more fish will be found here!"
UNLIKE COAL AND OIL, WIND AND SOLAR ENERGY DON'T ADD TO GLOBAL WARMING.

A GUEST WHO NEVER SEEN ONE OF THEM BEFORE.

IT'S THE WEATHER, NOT THE HURRICANES, NOT THE TORNADOES, THAT'S DAMAGING THE圖片 PLANET'S ENVIRONMENT.

IT'S NOT JUST A LITTLE THING. IT'S THE HURRICANES, NOT THE TORNADOES, THAT'S DAMAGING THE PLANET'S ENVIRONMENT.

WE SHOULD SHARE WITH THE NEIGHBORS AND FACE THE CONSEQUENCES TOGETHER. IT'S NOT JUST A LITTLE THING. IT'S THE HURRICANES, NOT THE TORNADOES, THAT'S Damaging THE PLANET'S ENVIRONMENT.

YOU SHOULD SHARE WITH THE NEIGHBORS AND FACE THE CONSEQUENCES TOGETHER. IT'S NOT JUST A LITTLE THING. IT'S THE HURRICANES, NOT THE TORNADOES, THAT'S DAMAGING THE PLANET'S ENVIRONMENT.
Welcome to camp tonight. I'm going to make it a story one. You're going to love tonight with your friends.
HEY, KID! WHAT'RE YOU DOIN' HERE?

WHERE'S THAT BIRD... JOSU?

FORGET IT. PROBABLY JUST SOME RIDING FOR VISION.

LET'S GET THIS MOVE ON!

SOON HE'S ON THE AIR OR THIS LAND!

YOU DON'T OWN YOUR OWN TAXIFLITE! THAT'S THE WAY IT WORKS!

THEY'LL USE IT AS A MEANS OF TRANSPORTATION IN THE FUTURE!

AND THEY'LL THINK NOTHING OF IT!

SURE, WHAT HAVE YOU GOTTEN OUT OF IT?

THEY DON'T CARE. YOU'RE AT LEAST SIX MILES OUT!

WE DON'T CARE!

THEY DON'T CARE!

WE DON'T CARE!
WELL...WHAT WAS THAT? MY GOD! I THINK I'M LATE FOR SOMETHING!

WHAT DO YOU MEAN, "WHAT DO YOU MEAN"? I'M HERE TO EAT THE CAT FISH!

"OK?"

THE EARLY BIRD GETS THE WORM.

"WHAT WERE YOU DOING IN HERE BEFORE DINNER?"

"I WAS HOLDING THE CAT-FISH FOR YOU!"

"RESUME EATING, NOW!"

"HUH?"

SHA XTH
HADN'T BEEN HERE TO DISCERN A FEW TREES!
Actually, I've been asking questions about your friend.
I don't know if it's important, but when was the last time you went fishing?
I'm just saying, it seems to be a rather quiet place.

The old man, what about you?

Of course not, but something strange seems to be happening here. Something more than just the effects of natural phenomena.
And you're saying something about it?

But I don't know what it is. I'm just wondering.

Well, I'm not sure. It's a bit cloudy today.

Why do you think we should be looking for the Jason?

It's just a hunch. I think it might be worth checking.

Actually, it's been a while since I've been here. It's a bit overgrown.

I don't know. It's a bit strange.

You call yourself a scientist. I'm not sure if you believe in mysteries.

He's not involved in any plot against the government. He would never do something like that!
IT'S BEEN A WEEK AND WE HAVEN'T SEEN A THING OUT OF THE ORDINARY. YOU PROBABLY JUST SAW SOME TOURISTS JUST RIGHT NOW.

THEY WEREN'T TOURISTS, AND THEY WERE UP TO NO GOOD. I S'POSE!

DON'T YOUR FRIENDS KNOW WHERE YOU'RE AT?

IT'S PRETTY FAR FROM THE SHIP, RIGHT? WITH THE LOGS PULLED OVER...

IT'S AN IMPOSSIBLE SITUATION. WE HAVE TO CHECK THE AREA FOR TRACES.

IT'S IMPERATIVE TO MANUFACTURE MONSTER NO CLEANUP ATTRACTION PLACED BY INSPECTORS CAN NEVER FIND A TRACE OR SIGN OF THEIR WHITE PLANTS.

THEY BUOY A MANUFACTURING PLANT HERE BECAUSE THE AUTHORITIES DON'T WANT THE INVESTIGATORS TO SEE THE DAMAGE TO THE ENVIRONMENT. PROTECT THE CARS.

THEY INSPECTORS SSPON'T DISAPPEAR DURING THE INVESTIGATIONS. THEY'RE THERE!
"What's going on over there?"

"Look at those barrels...

"They must be..."

"...hazardous waste!"

"They're dumping it into the lagoon..."

"That's what's killing our fish!"

"What about me?"

"I'm afraid..."

"...I can't handle it anymore!"

"What if they see me?"

"They'll think I'm..."

"...spying on them."

"I don't know..."

"I can't stay here."

"Give me a ride into town?"

"I'm working..."

"...on my own, and this sun isn't too bright round here!"
I gave you the other night!

What is this?! You're from some environmental group on a government ship?

We'll give you all right. A one-way cruise on our luxury liner!
WHY ARE YOU DOING THAT!
WHAT WAS I SUPPOSED TO DO?

I GET YOUR BOSS MAKES
A LOT MORE MONEY THAN YOU DO.

I THOUGHT YOU
SAY YOU NIP A TWIN?

I THOUGHT YOU
SAY YOU WERE A MAN AND YOU WANTED TO BECOME A MAN.

YOU'RE NOT A WOMAN.
YOU'RE NOT A MAN.
YOU'RE SOMEONE IN BETWEEN.

I THOUGHT YOU
SAY YOU WANTED TO JOIN THE ARMY.

I THOUGHT YOU
SAY YOU WANTED TO BECOME A MAN.

WHAT WILL
LET A TRANSITION
TAKEN FURTHER?
Another nice thing about those rounders...

Hah! Haw!

I heard when they eat that evidence, you can't be guilty of murder.
"Hey! Thanks for saving me."

"Well, I was just doing my job."
SAVEd HEROES OF FISH AND VILLAGE'S FISHING INDUSTRY AND THE LAKE'S MARINE ECOSYSTEM IN...

CAN'T YOU ADMIT YOU'RE PROUD OF ME FOR ONCE?

I'M NOT IN THAT KIND OF TROUBLE, YOU N. OLD MAN!

YOU ARE, MY FRIEND! BOTH OF YOU ARE! AND THAT'S AN ACCIDENT, GC! I'LL TOUCH YOUR BACK IF YOU WANT TO WIN OVER ME... WHICH I THINK YOU DO! BECAUSE YOU REALLY DON'T EVEN LIKE SOMEONE WHO CAN'T DO THAT!

I'M REALLY SORRY, OLD MAN. THIS IS PART OF MY TRAINING IN THE DISCIPLINE OF THE MARTIAL ARTS.

I WANT TO BE HONEST. INTEGRITY AND SENTIMENTAL ATTACHMENT...

Because my master... 

WHY WOULDN'T I KILL THE BODY, I MEAN, MISTER?
GLOBAL WARMING AND GREENHOUSE GASES

The majority of scientific experts agree that the earth's average temperature is rising as a result of human activities—driving vehicles, manufacturing, heating, electricity generation, and so on. A warmer earth can disrupt rainfall patterns, causing a rise in sea levels and leading to a host of other harmful effects on plants, animals, and humans. According to experts, average global temperatures are predicted to rise between 1.4 and 5.8 degrees Celsius over the next 100 years, a rate of warming higher than any that has occurred over the past 10,000 years! What is the cause of this warming of the earth's climate? Over the past 50 years, the culprit has been greenhouse gas emissions. Since the industrial revolution, economic growth has depended on the consumption of fossil fuels—coal, oil, and natural gas that are burned by factories, electric power plants, cars, and households. The resulting carbon dioxide ($CO_2$) emissions are the largest source of the problem: greenhouse gases. These gases trap the infrared radiation (heat) from the earth within its oxygen atmosphere and create global warming.

To learn more, check out:
- http://www.carbonbrief.org/
- http://www.ipcc.ch/
- http://climatechange.unep.net/
- www.climate.org

EFFECTS OF CLIMATE CHANGE

Changes in the earth's climate are harmful to the environment, people, and animals in a number of ways. Climate change can:

- Decrease water supplies and make water unsafe to drink in arid and semiarid regions
- Increase the risk of floods and droughts in many other regions
- Cause outbreaks of diseases like malaria, dengue, and cholera, especially in the tropics and subtropics
- Kill off the last of already vulnerable species forever (extinction)
- Harm the delicate ecosystems (balance of nature) in coral reefs, forests, grasslands, and high-mountain areas
- Trigger natural disasters, such as storms, hurricanes, and tornadoes
- Reduce farmers' ability to grow food and other plants they rely on to make a living in the tropics and sub-tropics
- Raise sea levels so that tens of millions of people living in low-lying areas are permanently flooded out of their homes and land
- Threaten the very existence of small low-lying island states

WHY THE POOR SUFFER THE MOST

Climate change poses extreme risks to developing countries because its effect on water, agriculture, forests, and fisheries has a direct impact on people's health and livelihoods. The Intergovernmental Panel on Climate Change (IPCC) has concluded that poor people living in developing countries are the most vulnerable to the effects of climate change. The IPCC estimates that a 3 degree Celsius increase in global temperatures could lead to a loss of gross domestic product (GDP) in developing countries of 2 to 9 percent per year. This loss of income and money would have a devastating impact on their population's health and welfare.
Why? Because it is developing countries that rely the most heavily on industries like agriculture, forestry, and fisheries, which are the most sensitive to changes in the climate. These countries also lack the technology, governmental institutions, and money to cope with changes in weather patterns. And the regions that are predicted to experience the greatest changes in climate—the tropics and sub-tropics—are where the majority of the world’s poor live.

Sadly, most of the greenhouse gas emissions that cause these devastating climate changes come from wealthy industrialized countries. Emissions per person in a rich country are five times higher than that of a person in a poor country. With only 15 percent of the world’s population, rich countries are responsible for more than 75 percent of global carbon dioxide emissions! The United States is the greatest contributor to global warming, although it is home to just 4 percent of the world’s population. It produces almost a quarter of global CO2 emissions. Unfortunately, developing countries are catching up—within 30 to 50 years, emissions from these countries—especially middle-income ones such as China, India, Brazil, Mexico, and South Africa—are expected to surpass those of rich countries.

INTERNATIONAL RESPONSES

At the 1992 Earth Summit in Rio de Janeiro, Brazil, many developed nations agreed to work toward stabilizing their greenhouse gas emissions at 1990 levels by the year 2000. In 1997, 185 nations gathered in Kyoto, Japan, for the United Nations Conference on Climate Change, where they developed the Kyoto Protocol, a legally binding document that calls on industrialized nations—which are responsible for the majority of emissions—to cut their greenhouse gas emissions by an average of 5.2 percent, with the goal of reaching levels below 1990 by 2012. As of February 26, 2005, when the Protocol went into force, 50 countries had ratified the Protocol.

To learn more, check out: http://unfccc.int/

WHAT CAN WE DO?

Our global community must reduce pollution from fossil fuels in ways that don’t destroy economies and are fair to those countries that bear little responsibility for harmful CO2 emissions. Our leaders, businesses, and communities should promote sustainable development—modernization that doesn’t deplete or pollute resources—by supporting efforts to do the following:

- Switch to renewable energy sources such as wind, solar, and biofuels (fuels made from plant materials such as wood, farm waste, and ethanol) to provide our electricity
- Improve nature’s ability to soak up carbon dioxide in the air by planting new forests and using new methods to encourage soil to absorb carbon
- Provide incentives for industries to be more fuel efficient by implementing national and international systems of buying and selling carbon emissions trading permits. (The box below shows how this works.)
- Encourage businesses to engage in projects in developing countries that use innovative climate-friendly technologies
- Conserve energy and improve energy efficiency by making power stations and factories run more efficiently, driving more fuel-efficient cars or using mass transportation, and better insulating buildings and homes
Imagine you are a company in a developing country that wants to build windmills to generate electricity, but making electricity this way is costlier than burning coal. A rich country’s government gives you money to build a “wind farm” to create clean, non-polluting electricity. In return, the rich country’s government earns a credit for the amount of CO₂ emissions reduced by using wind rather than burning coal—a credit it can apply toward its emissions reduction target. This transaction adds no additional emissions to the environment, helping the rich country contribute to world-emissions reduction targets, while creating a clean-energy project in a country that creates local jobs and promotes energy independence.

**WHAT CAN I DO?**

Many greenhouse gases come from activities we do every day. By thinking about their impact on the environment, here are a few things you can do to reduce these harmful emissions:

3. Use public transportation, bike, or walk to school or work; if you drive, opt for a fuel-efficient car or carpool.
4. Conserve energy—turn off the lights, stereo, TV, computers, and other electrical appliances when they’re not in use.
5. Plant trees, which absorb carbon dioxide.
7. Become an activist for your earth! Start by exploring WorldWatch’s “Good Stuff” at www.worldwatch.org/day/goodstuff! Read the screens for the products we use on a daily basis. Then make it a point to buy “good stuff,” like using energy.

**Coming Next Issue**

It’s no day at the beach for our next issue when he faces his most dangerous training challenge yet. Mercenaries kidnap our hero and force him to fight in an illegal army side by side with other children who have been ripped from their homes and families. Struggling just to survive from one day to the next, will he be able to escape, let alone lead his fellow child soldiers to freedom?

**DID YOU MISS THE LAST TWO ISSUES OF 1 WORLD MANGA?**

**I WORLD MANGA:**

Passage 1: POVERTY—A Ray of Light

The stakes rise when Rei meets a young woman fighting just to survive! Can Rei vanquish the specter of poverty?

Passage 2: HIV/AIDS—First Love

Are the heads for the big city and falls for a feisty young cocktail waitress! But the woman he loves is hiding a terrible family secret...

Email your suggestions and comments to worldmanga@viz.com!
Fifteen-year-old orphan Rei survives by his wits and guts on the mean streets of the world. His fortunes seem to look up when he meets a mysterious stranger who offers to help him achieve his dream of becoming the greatest martial artist in the world. But Rei's trainer is more interested in developing his mind, spirit, and—ugh—heart than his thrashing, raging, fighting moves! And Rei's master turns out to be a real animal! In fact, Rei never knows what animal he's going to turn into next!

Rei's latest training mission takes him to an island paradise complete with coral reefs, fluorescent fish, and pristine beaches! There he befriends an aged fisherman with nothing to catch... What is the secret behind the Lagoon of the Vanishing Fish? And can Rei stop the unseen forces threatening to swallow up this tropical sanctuary forever? Plus, SHARK ATTACK!