PASSAGE 3

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

I CAN'T SEE A MOTHER** THING!

WHO AA AAAAA!!!
VIP
VIP

Enough broken-heart therapy!

Time for a water workout!
WOW! IT'S LIKE SWIMMING IN A FLOWER GARDEN!

DID WE MASTERS NOW? TURN INTO A FISH AGAIN?

WHAT DID WE TURN INTO A FISH AGAIN?

YOU TURNED INTO A FISH? THINK YOU COULD ONLY CHANGE INTO ANIMALS?

GASP
IN A ... MANLY WAY.

OF COURSE...
THAT'S ENOUGH EXERCISE FOR ME!
TIME FOR SOME RUN IN THE SUN!

OYCH!

ENOUGH BEACH RIDING!

IF YOU'D JUST TELL ME WHAT THE HELL I'M DOING...
Some training.

This is D... Where NOT to go.

I'll tell him where to go.

BUT NOT HERE.

No. Go.

WHERE TO GO!

I DON'T WANT TO HIDE ANYMORE.

I am a big boy...

BOOM! HHK.

HIT THE ROAD.

THE SOLDIERS ARE COMING!
WHERE ARE YOU!?
They ain't been bitin' since the westerners come to our island, but it might have beginner's luck.

Thank you.

Are you a westerner?

I come from west of some place, east of others, too. I quest south of sunny, and north.

Good answer.

Sorry to know there ain't more like the getters on my son's face. You know where the fish bite, which month of the year, what time of day they like to bite best?

Agh!!! You talked!

I know an old man comes on to ram his son. But we just left five minutes ago.
Actually, fish don't breathe water. They have structures called gills instead of lungs. That filter oxygen out of the...
ONE STEP IN BROWNING BEACH
THE OLD MAN'S FISH IS PLANTING TREES
HE SAYS DISAPPEARANCE WILL HAVE TO HAVE THEIR FAUNA.

"IT'S NOT ENOUGH," HE SAYS.
"IT'S NOT ENOUGH TO PLANT TREES."
Like that is where we manufacture renewable power for the island.

You may not have noticed, but the sun has an effect on the weather and the winds.

It's the wind and solar energy that powers the station.

There are a few things you can do to help.

You can reduce your energy consumption.

And you can support local businesses.

Because the renewable energy generated here is not only helping the community, it's also helping the planet.

It's a battle to save our planet from the effects of climate change.

But if we don't act now, the future will be much worse.

You can help by reducing your energy consumption.

And by supporting local businesses that use renewable energy.

You can also make a difference by spreading the word about the benefits of renewable energy.
We're going to stay at my place. It's a place like a storybook town.

[Insert character speaking]

[Insert character in bed]

[Insert character waking up]

[Insert character looking out window]

[Insert character running or waving]

[Insert character wearing a hat]
AREN'T YOU TIRED AFTER THIS??

AFTER WHAT?? WHITTLE AROUND NOT GETTING ANYWHERE FROM ALL DAY?

H-NEVER MIND. SHAMELESSLY KEEPING HANG OVERogie.

I DON'T SEE IT IN MY NEXT MUGG.

IS THIS GUY THE OLD MAN?

OR SIMPLY SCARE OUR ROBBERY!

AT LEAST THIS IS A MAN'S JOB FOR ONCE!

SOLVING A MYSTERY! BRINGING A CRIMINAL TO JUSTICE!

FINALLY I GET POINT!

H-HEEY!!! COME BACK HERE!

HAI, THE OLD DIGGER PUNCHED IT ANYWAY.

SWING SWING
I GUESS...

I THINK I'M A LITTLE DUMB.

HARLEY, WERE YOU PLAYING TREES?

ACTUALLY, I USE QUESTIONS ABOUT YOUR FRIENDS...

WELL, SURELY, IT'S PERSONAL, I MEAN, THE SPIT FISH KING... AND EVEN THE OTHER FISHERMEN PICK UP AND LEAVE. HE'LL BRING THE FISH BACK AND KEEP THEM FOR THEMSELVES.

YOU CALL YOURSELF A SCIENTIST...

OF COURSE, NOT ALL SCIENTISTS ARE NATURE LOVERS, IT SEEMS TO BE GOING ON HERE. SOMETHING MORE THAN JUST THE EFFECTS OF GLOBAL WARMING...

AND YOUR FRIEDN'S NOTHING ABOUT IT?

THE OLD MAN, DOES HE KNOW ANYTHING ABOUT ANYTHING?

HE'S NOT INVOLVED IN ANY PLAY AGAINST THE OTHER FISHERMEN.

HE WOULD NEVER DO SOMETHING LIKE THAT!

BUT I DON'T KNOW SOMETHING ABOUT WHAT'S HAPPENING TO THE JAGUAR...

REALLY?

HMM... A FEW NIGHTS AGO I SAW... SOMETHING IN THE JAGUAR...

IT'S NOT...

HE'S NOT... IT'S NOT...

IT'S BEEN EATING ME...

IT'S A PLACE TO BURY, AND AN EMBARRASSMENT.
IT'S BEEN A WEEK
AND WE HAVEN'T SEEN
A THING OUT OF
THE ORDINARY...

YOU PROBABLY
JUST SAW SOME TOURISTS
OUT NIGHT FISHING...

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

COME ON!
YOUR FRIENDS
WANTS US HERE AT
THIS HOUR!

IT'S A TRICK FROM THE
INDIAN FACTORY WITH THE LOUD
PRAIRIES OVER.

TODAY'S SOFT DRINKS ARE FREE. A WINNER GETS A COMBITION!

IT'S IMPOSSIBLE TO MANUFACTURE PRODUCE WITHOUT ATTACHING PRODUCTION TO THE BALL.

THE INSPECTORS DIDN'T DISAPPEAR DURING THE INSPECTIONS, YET...
"Night-riding tourists?" Hmmm... Looks like they're dumping something. Those barrels must be leaking hazardous waste into the lagoon...

"What if they see the old man? They'll think he's camping on them!"

"I don't know... pray they won't..."

"Hey!" (Suddenly)

"Guys, can I give me a ride into town? I'm workin' on my tan, and the sun ain't too bright round here!"

"Don't worry about me, I can handle myself!"
WE: 'I,1.
GIVE YOU
A RIllE
RIGHT •••
A ON6~WAY
CRJIS6
ON OUR
UXIJR'
J.JN6RI

I SAW
YOU HERE
THE
OTHER
NIGHT!

WHAT IS
RUNE?

YOU'RE FROM
SOME
ENVIRONMENTAL
GROUP
IN A GOVERNMENT?

NO ONE HAS
GONE
LUXURY
LINERS!
They say these waters are polluted, but I see the bikini girls keep their hair clean. Why are you doing this? What's wrong with you?
I hear when they eat the evidence. You can't be doing murder.
SAVED MIRACLES OF FISH AND VILLAGE'S FISHING INDUSTRY AND THE LAKE'S MARINE ECOSYSTEM AND...

CAN'T YOU ADMIT YOU'RE PROUD OR ARE YOU LOST ONCE?

I'M SORRY BUT I'M NOT TELLING YOU, OLD MAN.

YOU SEE, I THOUGHT YOU MIGHT BE ABLE TO HELP ME WITH WHAT HAPPENED.

AND KILLING PEOPLE... OR BEING LARGE... IT'S FUNNY, RIGHT?

YOU'RE RIGHT. YOU NEED TO FORGET ABOUT IT.

AND WHEN I WAS AN ACCIDENT... I LOST MY FRIENDS

I THINK YOU NEED TO REALIZE YOUR CIRCUMSTANCE IS DIFFERENT. SOMETIMES IT'S...

OFFICIAL, ARREST THIS MAN!

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

INTEGRITY SAVES SENTIMENTAL ATTACHMENTS.

I WANT TO EXPRESS SORROW.

BECAUSE MY MASTER SAYS EVERYTHING IS NOT OKAY.
WHAT'S THIS FOOD? BUT... TALKING ABOUT, WHAT IS "SOMETHING" OR "SUDDENLY"?

I THINK... HE'S "SOMETHING"...

"SUDDENLY"...

YOU KILLED YOUR WIFE?!

IT'S OVER NOW. YOUR WIFE IS NOT CHAINING YOU...

DIES NOW..... AND HER WIFE WAS SUFFERING...

I DONT KNOW IF SHE'S FROM HER INHERITANCE. BUT...

I DON'T KNOW. I'M IN THE MIDST OF EVERYTHING!

WE SOLVED THE CRIME OF THE EMPTY "LADDER"!

NOW THE FISH WILL COME BACK AND WIND. IF YOU CAN CATCH THEM AGAIN AND...

NO WAY I'M LEAVING NOW...

GET MY FISH!...

... IT'S NOT THE SAME...

... AFTER THE TIMES...

NOW THEY'RE GONE A LOT OF GOOD...

BUT IN THE "LADDER" FISH ARE "SOMETHING"!

"WARMING... WARMING...

FISHES WILL BE "SOMETHING"...

... IT'S JUST A MATTER OF TIME...

BUT I'M AFRID IT'S A Job... FOR FISHERMAN. FROM "WARMING... WARMING... WARMING...

A GLOBAL... A TRUE BATTLE REMINDERS... TREATIES AND LONG-TERM AGREEMENTS...

... "WARMING...

WE SAVED THEM FROM WARMING GLOVES!

... "WARMING...

... "WARMING... IT'S JUST A MATTER OF TIME...

... "WARMING... IT'S JUST A MATTER OF TIME..."
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 (CO2) 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:
• www.youthbank.worldbank.org/issues/environment
• http://www.ipcc.ch/
• http://climatechange.unep.net/
• www.climate.wri.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 such as 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 tornados
• Decrease farmers’ ability to grow food and other plants they rely on to make a living in the tropics and subtropics
• 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 8 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 20 to 30 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, 165 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, 55 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 helps reduce 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. Without thinking about their impact on the environment, here are a few things you can do to reduce those harmful emissions:

- Get smart! Learn more about the environment. You can begin by reading the Worldwatch Institute’s essay 'Beyond the Bubble' at www.worldwatch.org/subs/beyond.html. The rich country's government can earn 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 helps reduce 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.

**Coming Next Issue**

It's no day at the beach for Rei 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 Rei be able to escape, let alone lead his fellow child soldiers to freedom?

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

**1 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*

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

Preventing Global Warming!

Rei never knows what animal he's going to turn into next!