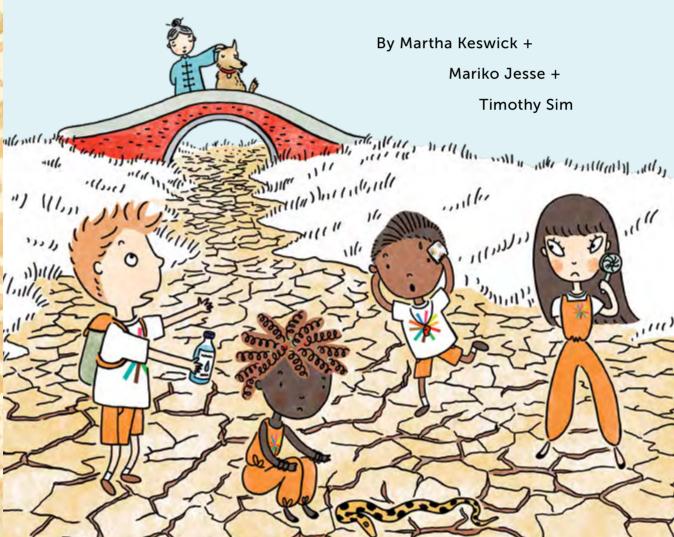




Be ready for disasters!

DROUGHTS



What are natural hazards ... and disasters?

Forces of nature that happen with little warning and occur all over the world, such as earthquakes, tsunamis, floods, landslides, tropical cyclones (and other storms), storm surges, heatwaves, wildfires, droughts and volcano eruptions. When these *natural hazards* pose a threat to humans or the environment they can lead to *disasters*, and cause destruction in a community.

What is a drought?

A continuous period of dry weather, when an area gets less than its normal amount of rain. Water levels drop in lakes and rivers, soil dries out, plants wilt and animals have trouble finding water to drink. Droughts can last weeks, months or even years. The longer the drought, the more harmful its effects on people.

The World Meteorological Organization helps countries to better forecast and manage droughts.

COPE will teach you how to be ready for droughts!







Be ready for disasters - Droughts

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AUTHOR Martha Keswick ILLUSTRATOR Mariko Jesse **EDITOR** Timothy Sim

DESIGNER Reita Wong

PROJECT MANAGER Christine Messervy

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SCIENTIFIC ADVISORS







DRGUGHTS

By Martha Keswick +

Mariko Jesse + Timothy Sim



Who is Grand Mistress Fu?

A famous Chinese martial arts teacher and founder of the Mount Emei Wushu School, Grand Mistress Fu, also known as Shifu, is disciplined and tough yet has an enormous heart. She narrowly escaped death as her school collapsed during the Wenchuan Earthquake in May 2008 and has since dedicated her life to Disaster Risk Reduction.



An international disaster hub, hidden in Sichuan Province, set up by Grand Mistress Fu. The COPE Squad - Candy, Ollie, Ping and Eddy are teenage orphans who were plucked out of their care homes to live at The COPE Academy and trained to be disaster risk reduction agents.



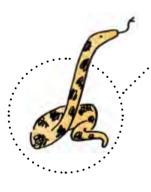
A beautiful 25-yearold python. Sense has a special gift for predicting disasters. Grand Mistress Fu feeds her mice every month.

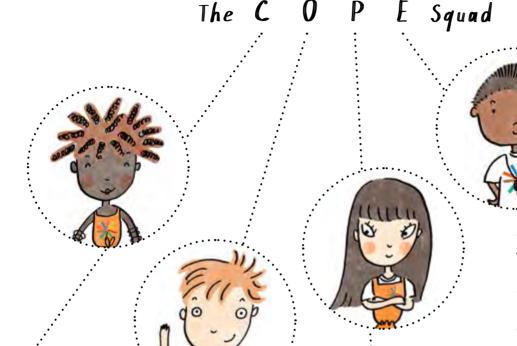
A huge 8-year-old Kunming Wolf Dog, Rescue tracks missing people. His favourite hobby is catching flies.

Rescue

THE DOG







12 years old from Kranshoek, South Africa, Candy is kind, strong, lively and loves playing drums and hula-hooping. Her role is to care for vulnerable groups affected by disasters such as children, elderly or disabled.

Candy

THE CARER

Disaster Experience: Wildfires

Ollie

THE SCIENTIST

13 years old from Christchurch, New Zealand, Ollie is clever, popular, sporty and loves astronomy and rugby. His role is to understand weather patterns, climates and ecology.

Disaster Experience: Earthquakes

Ping THE NETWORKER

12 years old from Hong Kong, Ping is practical, chatty, creative and loves cooking and Wushu. Ping is the networker and spokesperson within the COPE squad.

Disaster Experience: Floods

Eddy THE ENGINEER

12 years old from Bahia, Brazil. Eddy is curious, witty, chilled out and loves Lego and skateboarding. Eddy is a talented engineer focusing on the safety of buildings.

Disaster Experience: Landslides



COPE Signs

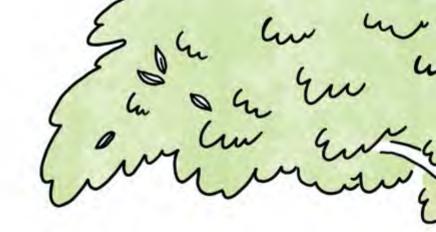
Since Eddy is hearing impaired, COPE sometimes chat using the Brazilian sign language, Libras. Can you spot the signs for **Droughts**, Mindful and Water?

6 C O P E

It was early April on Mount Emei.

Grand Mistress Fu was in her garden,
hoping rain would come soon.

Sense helped with weeding.
Rescue chased butterflies.

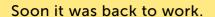






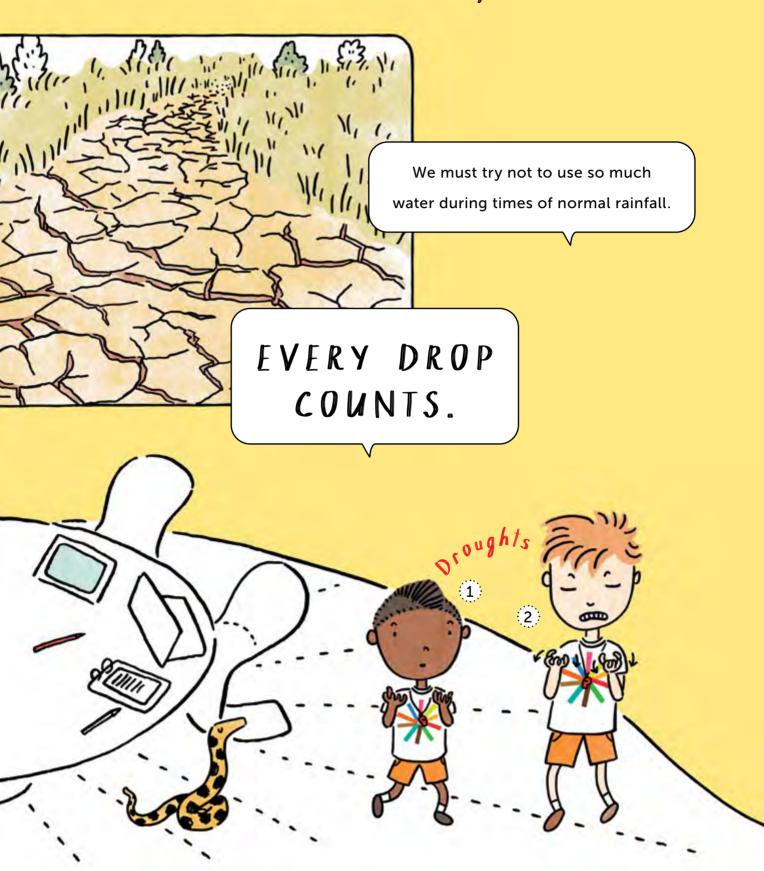






Now COPE, how can we





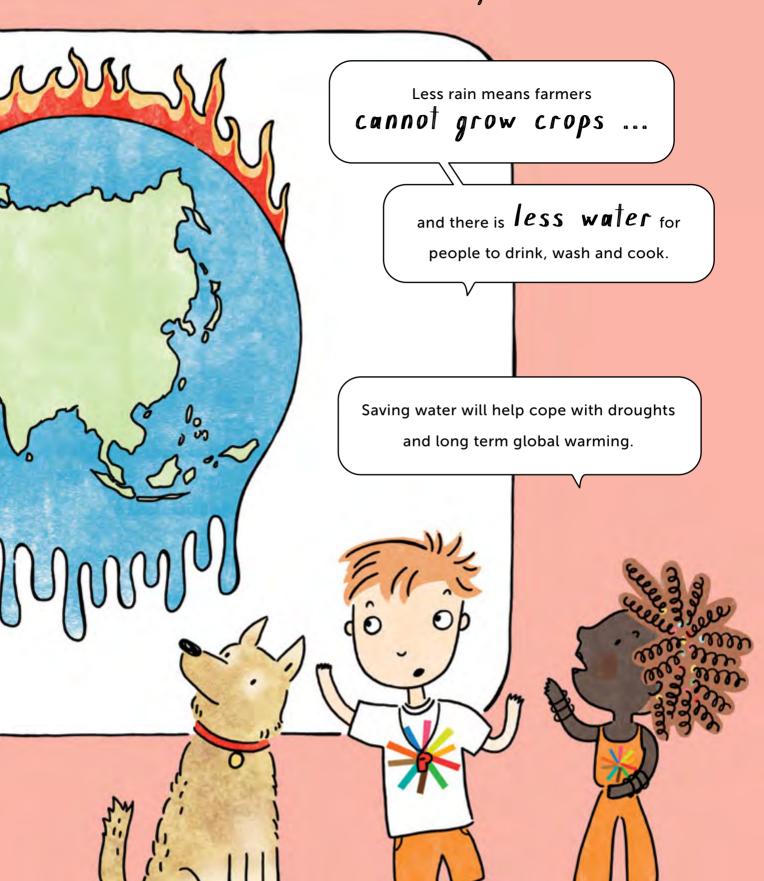
HOW ARE DROUGHTS MADE WORSE BY CLIMATE CHANGE?

Global warming is caused by more greenhouse gases in the atmosphere.

This has led to a rise in temperatures and sea level as well as a change in rainfall patterns.







Water is too precious.

How can we save it?





Take a short shower.

Turn off the water when brushing your teeth.



Use a washing up bowl, instead of the sink.

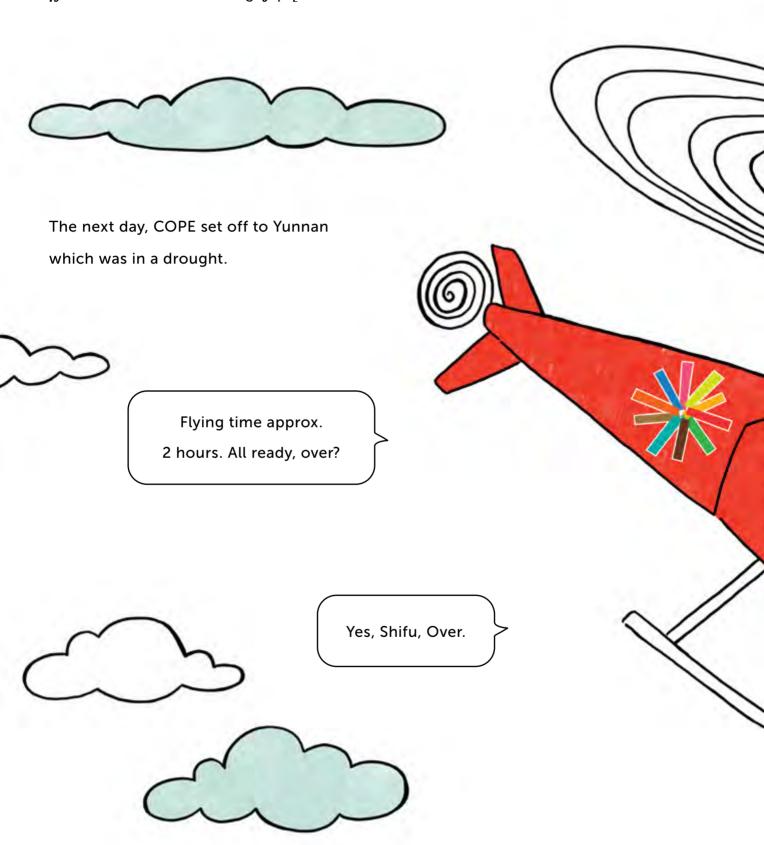


Wear clothes more than once before washing them.

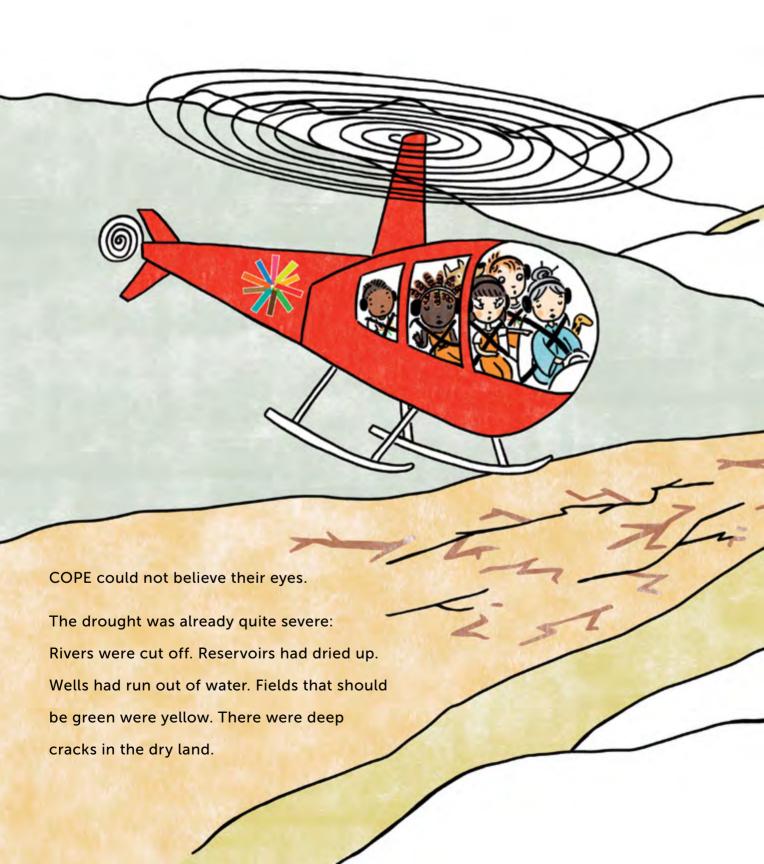


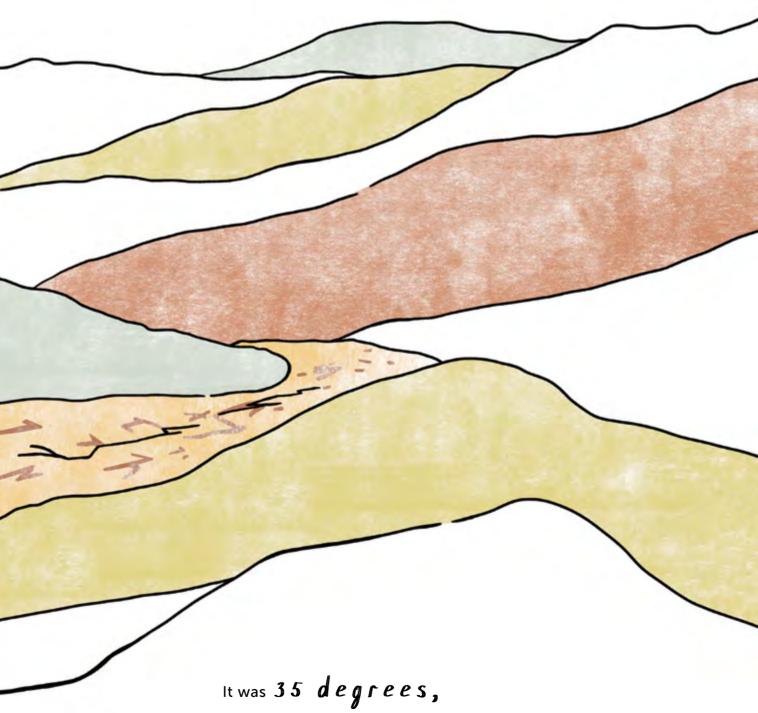
EVERY DROP COUNTS!











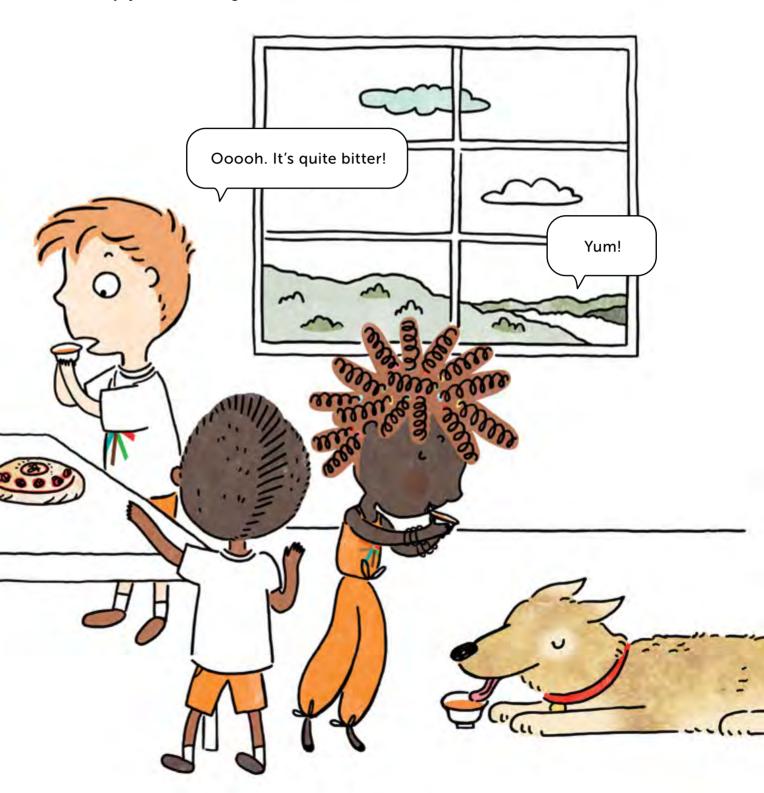
with weeks of intense heat and no rainfall.

COPE stayed on a tea plantation in Xishuangbanna, home of the famous Pu'er tea.

Yang was there to greet them. He belonged to the Aini ethnic minority, and was in charge of the plantation.



COPE enjoyed the tasting. Rescue drank some too!



Yang showed them the pu'er trees, growing in the cloud forests. Some are nearly 2,000 years old! The older the tree, the more valuable the leaves.



These trees need water and minerals ... and may not survive the drought. Our crops will be ruined.

Sooooo dry!



COPE set off on their mission to teach kids tips and tricks on how to \mathbf{Save} water.



EVERY DROP



Only flush the toilet when you have to.



COUNTS!





Turn taps off properly.

COPE trained up COPE Champions to help spread the word.

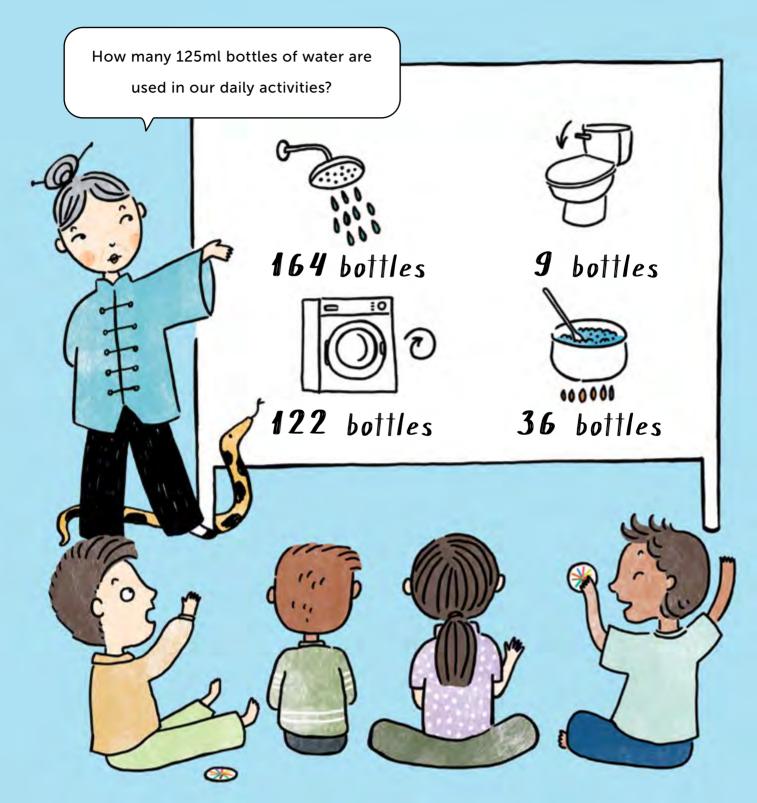
Remember to place a bucket in the shower to catch water.







COPE held special workshops.



This **adds** up to 331 bottles of water per day, per person.

Let's be mindful.

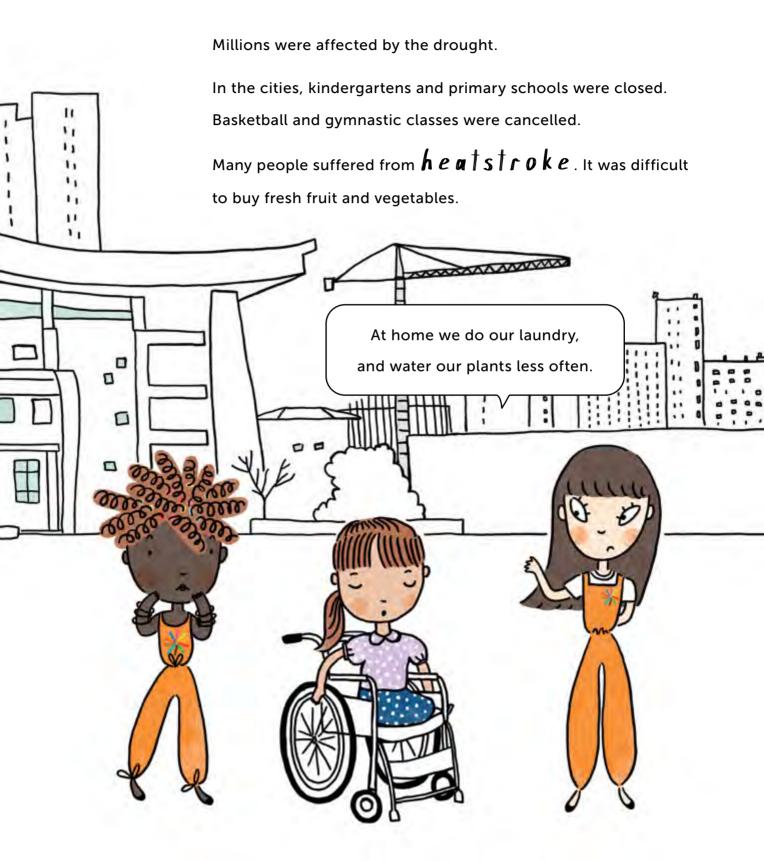
EVERY DROP COUNTS!

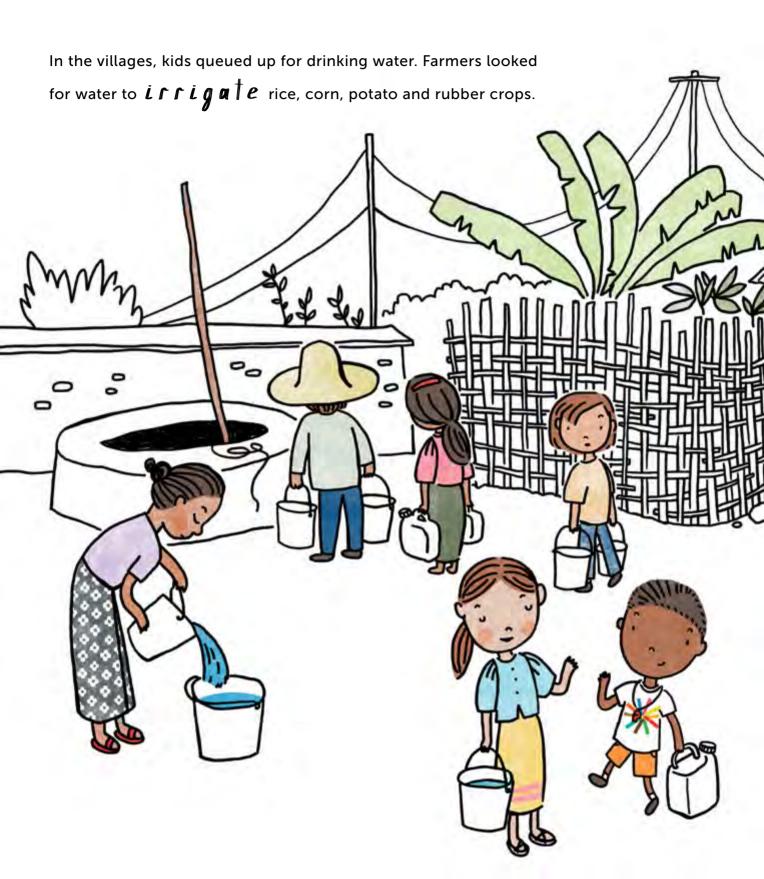


Weeks went by. The temperature rose. The sun was burning. Sense found it hard to keep cool.



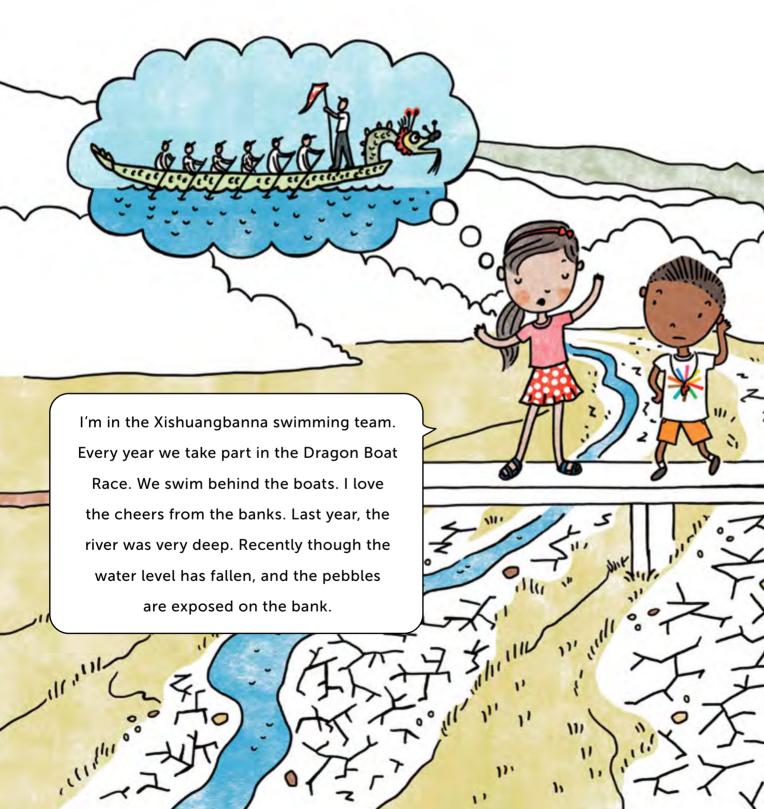


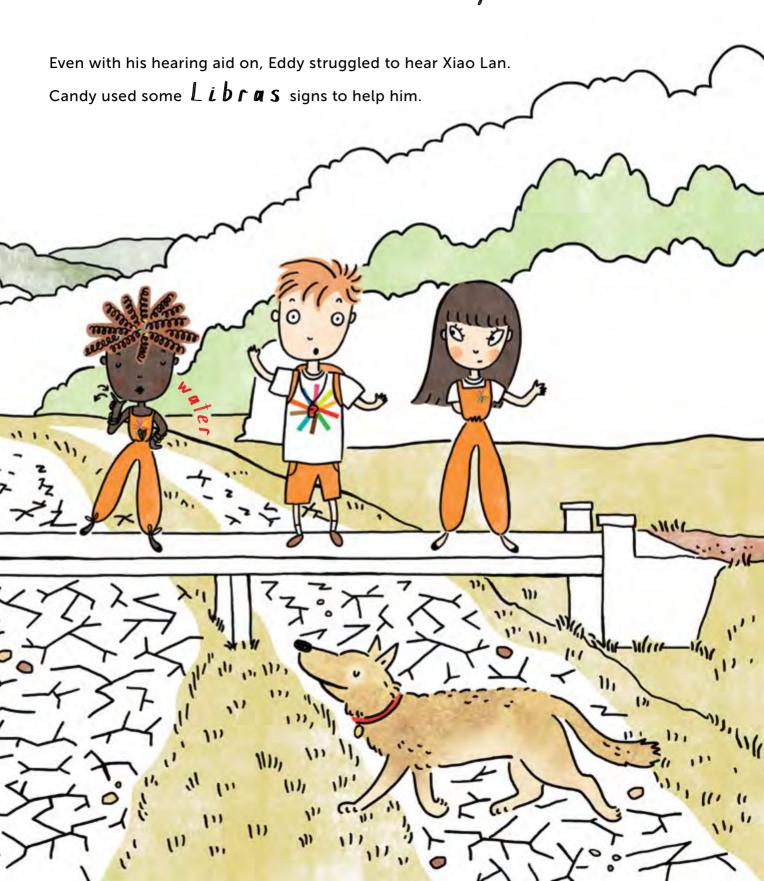




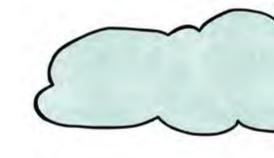


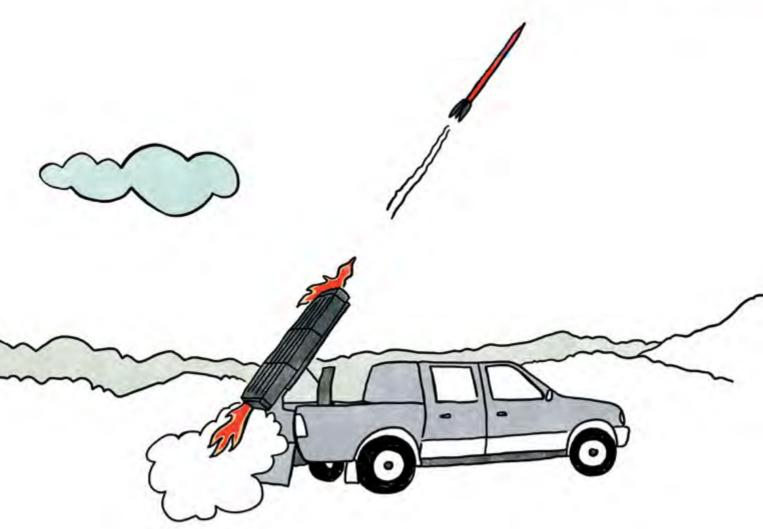
Meanwhile, the annual Water Sprinkling Festival was called off.





A Grade I *emergency* response was declared in Yunnan Province. The government set up projects to make rain, such as *rockets* fired into the clouds.

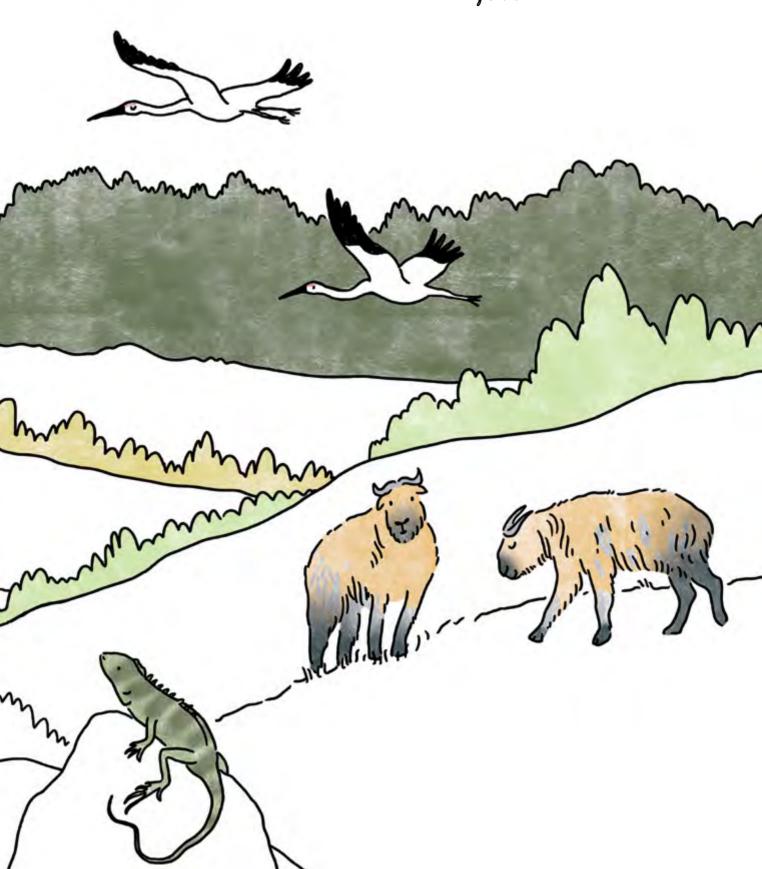




In the villages, deeper wells were dug. In the cities, drinking water was supplied at $\lim_{t\to 0} i d$ times of the day.



Cranes migrated. Elephants moved on to new territories. Takins travelled further to find water. Lizards were the most vulnerable. Let's help them. Ssssssssss.



Finally ... at the end of June, there was rain!

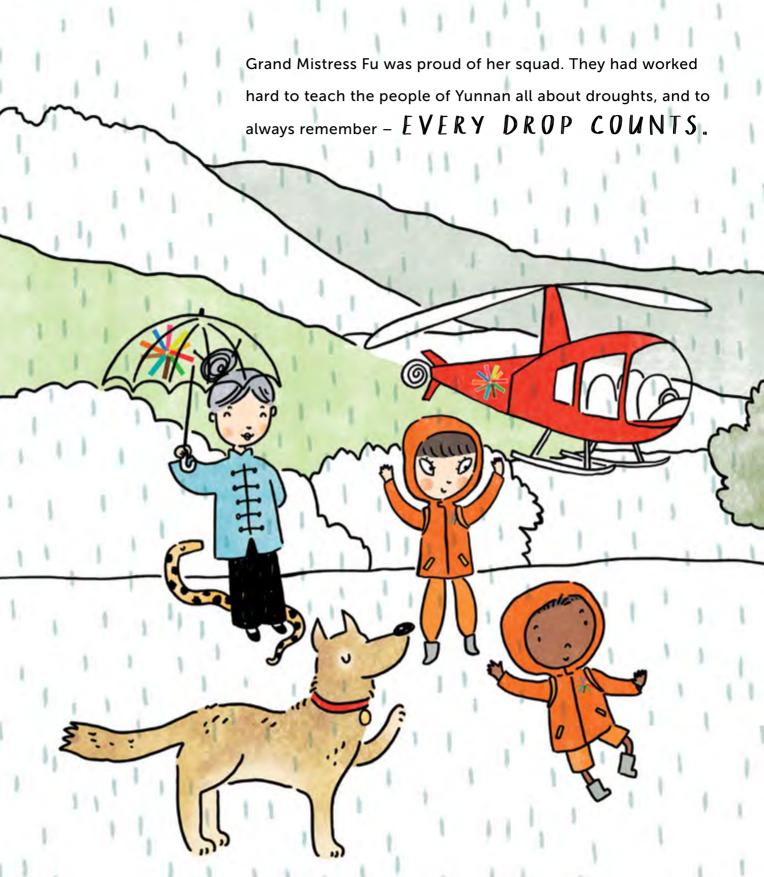


The rainstorms kept coming.

Lakes and rivers slowly filled up. The soil started recharging. Plants grew.

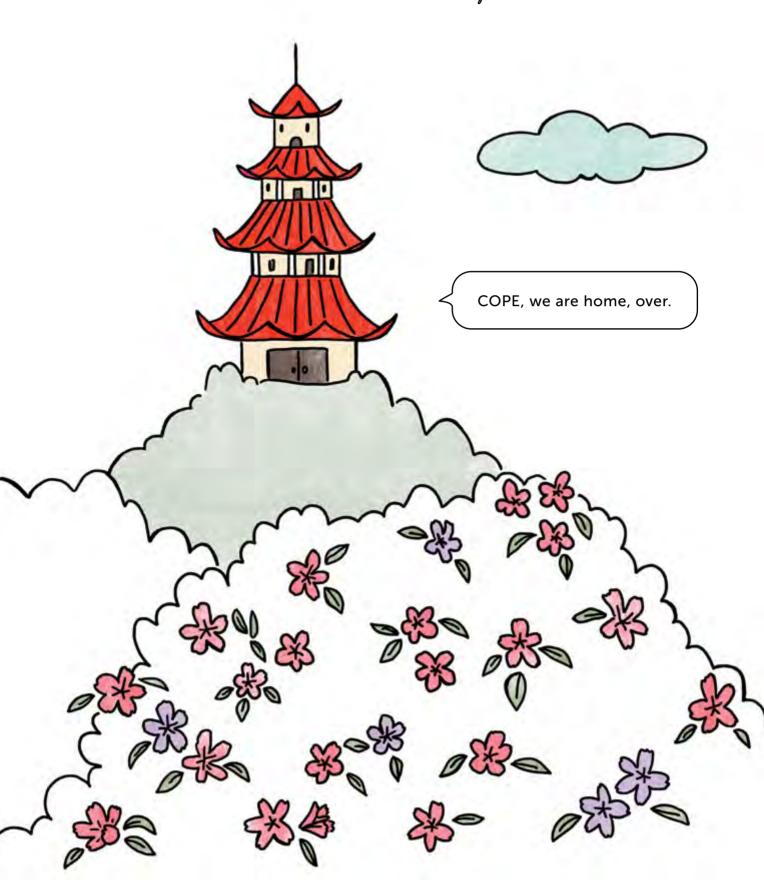
There was hope in sight.











THE COPE CONTRIBUTORS





Martha Keswick COPE

Martha Keswick is the author of the popular bilingual Max and Mei picture book series, the factual Zhongguo Mingren Series about famous people of China and the action-packed Pangu comic book series. Martha's work for the Keswick Foundation often supports disaster related projects in China.

Martha lives in Hong Kong with her husband, their four children and two dogs.

Mariko Jesse COPE ILLUSTRATOR

Mariko Jesse studied at Central St Martins, where she went on to be an Associate Lecturer. She is an acclaimed freelance illustrator, working on a variety of projects around the world from picture books to ceramics.

Mariko lives in Tokyo where she is always in a state of preparedness for earthquakes.

Timothy Sim COPE EDITOR

Dr Timothy Sim started out as a social worker specializing in family therapy. His focus on disaster risk reduction stemmed from his work with the children, families, schools and communities who were affected by the horrific Wenchuan earthquake in 2008. He has written many books in Chinese and English on the subject.

Tim is currently an Associate Professor at the Singapore University of Social Sciences



In a time when children are increasingly aware of climate change and the impact weather can have on their lives, this COPE Droughts book is an excellent way to understand water conservation and being prepared for periods without rainfall.

DR WENJIAN ZHANG Assistant Secretary General, World Meteorological Organisation

Drought, water scarcity and heatwaves are some of the serious and complex challenges affecting many countries in Asia-Pacific due to climate change. We thank the COPE contributors for putting together this booklet to help children better understand these issues and empower them to make a difference.

MR. MARCO TOSCANO RIVALTA
 Chief, UNDRR Regional office for Asia and the Pacific

The COPE book series can be a knowledge hub and source to increase children's awareness, capacity, and resilience to disasters worldwide.

PROFESSOR ZIQIANG HAN
 School of Political Science and Public Administration,
 Shandong University

The future we are leaving our children is tenuous. The threat of disaster from a changing world is already upon them. Our children are being forced to deal with these extreme, hostile environments and need the tools that will help them COPE in emergency situations.

CRAIG LEESON
 Filmmaker and Broadcaster

COPE Academy, Sichuan Province.

Under Grand Mistress Fu, the COPE squad receive intensive training on disasters and how to be prepared. Join their epic droughts mission to Yunnan, China where they have to put their disaster risk reduction skills into action.



www.cope-disaster-champions.com

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- **Earthquakes**
- Floods
- : Cyclones
- Storm Surges
- :: Landslides
- :: Wildfires
- Droughts
- : Tsunamis
- :: Heatwaves
- :: Volcanoes



Make the Difference.

Be Ready!