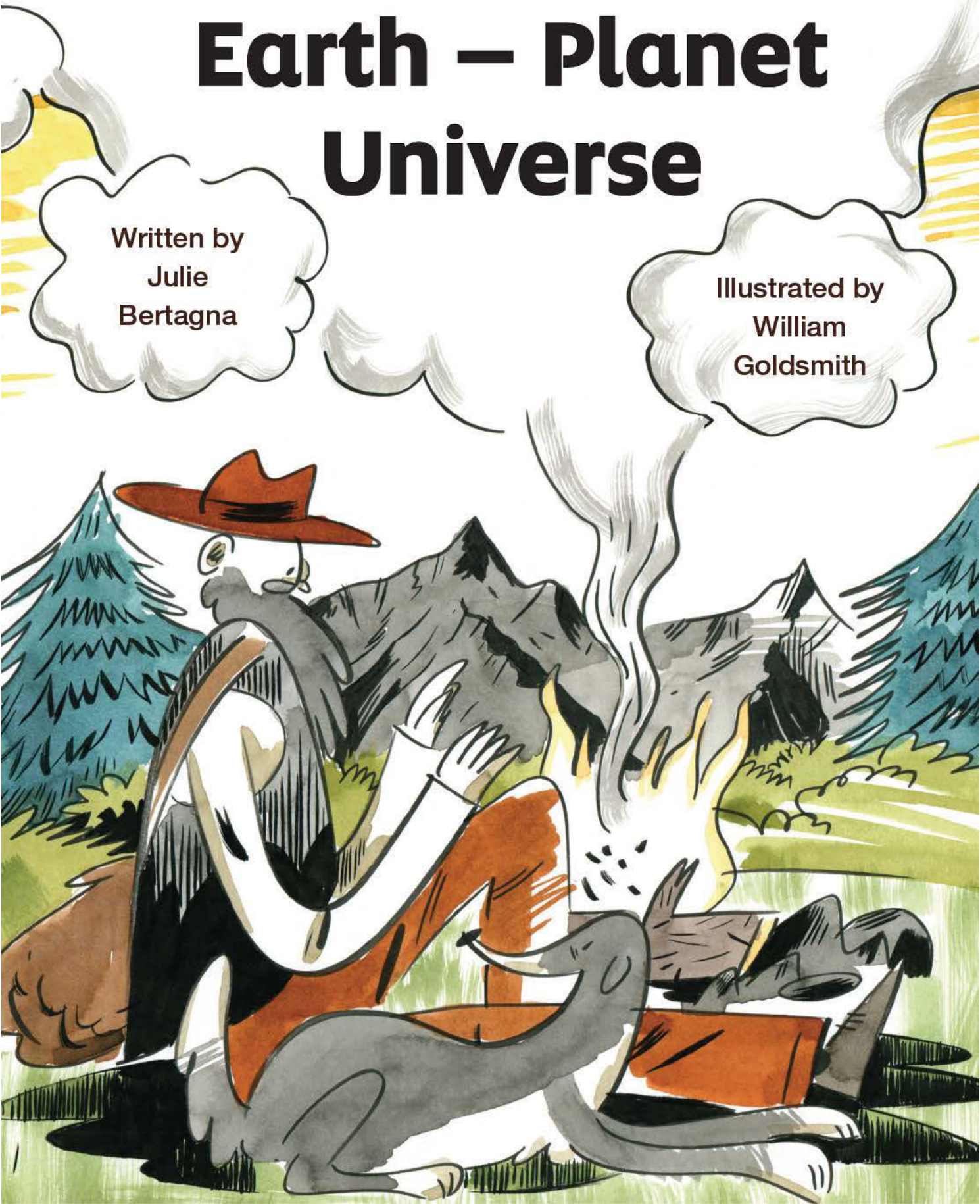


John Muir

Earth – Planet Universe

Written by
Julie
Bertagna

Illustrated by
William
Goldsmith



Scottish Book Trust

Scottish Book Trust develops innovative projects to encourage adults and children to read, write and be inspired by books.

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Foreword

‘John Muir’s passion and commitment to protecting and preserving the outdoors continues to inspire so many of us today. Every single one of us can contribute to his vision by protecting and enjoying the places we love and our actions now will speak to all future generations.’

Robert Hanna
John Muir’s great-great-grandson

Welcome to *John Muir, Earth – Planet, Universe*, a graphic novel that tells the amazing life story of the Scotsman John Muir: from his boyhood in Dunbar to his journey across the ocean and a thrilling new start in America; before setting off on his many adventures across the globe where he immerses himself in nature’s wild wonder.

You will also find throughout this book symbols, ‘jump off points’, indicating opportunities for discussion about that particular aspect of John Muir’s life or you can use these symbols to link to one of the many online supporting activities which you can download for FREE at www.scottishbooktrust.com/johnmuir.

At the back of this book you will find a John Muir quiz that takes a look at how similar to John Muir you might be, as well as a glossary that explains the meanings of some of the words used in the story.

At www.scottishbooktrust.com/johnmuir you will also find a pdf version of the story *John Muir, Earth – Planet, Universe* which will let you listen to the story being read out loud or allow you to increase the size of the text to help you read it.

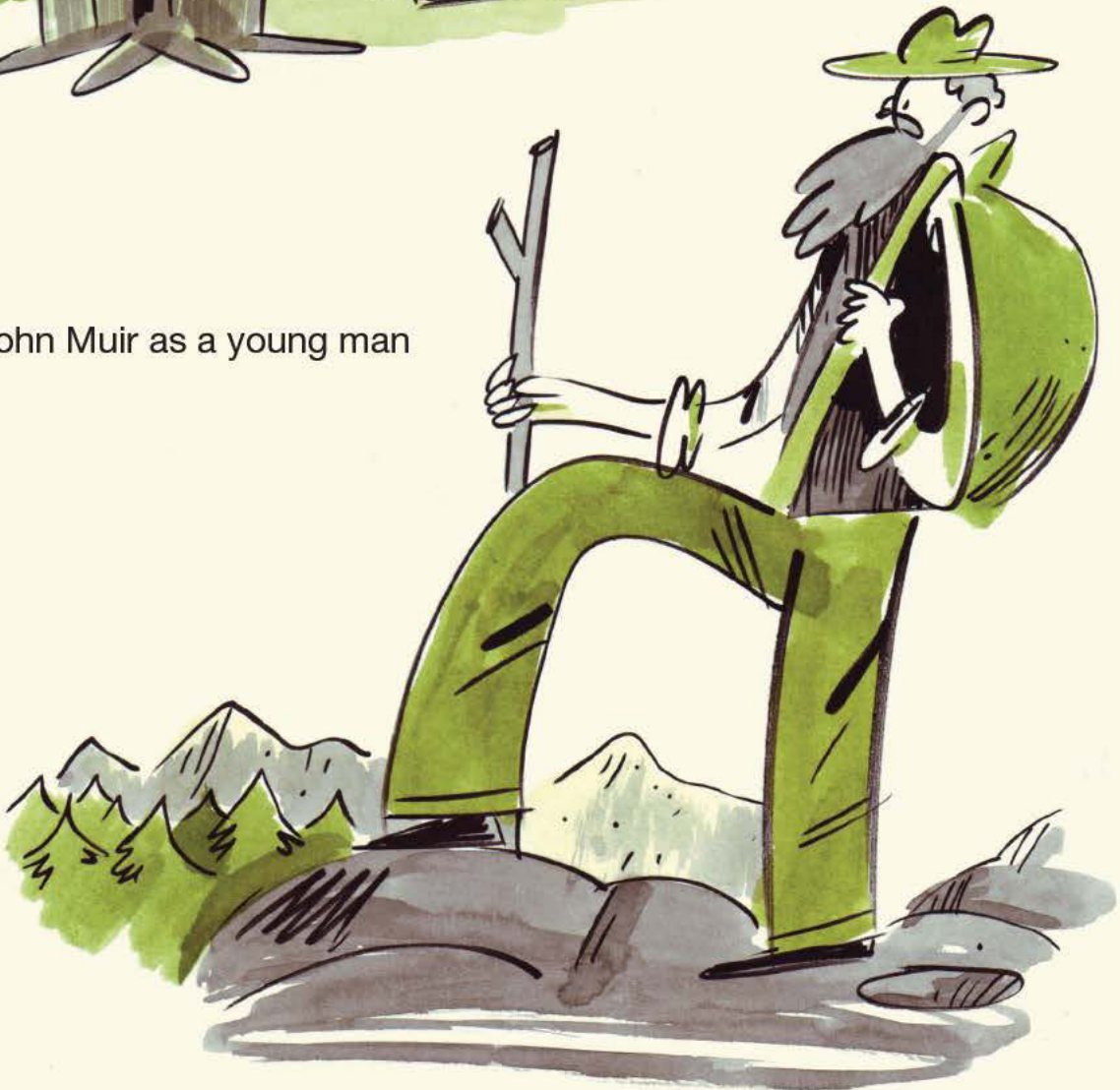
There are also further links to other relevant websites, for example if you want to take part in the John Muir Award.

Key Characters

John Muir as a young boy



John Muir as a young man



Stickeen



John Muir as an old man

John Muir's father



John Muir's grandfather



John Muir's mother

John Muir's sister
- Sarah



John Muir's brother
- David



John Muir's children
- Wanda and Helen



John Muir's wife - Louie



President Roosevelt

1. The Wild Boy of Dunbar





TIME OFTEN MOVED AS
SLOW AS A GLACIER
WHEN I WAS A BOY IN
SCOTLAND...



FOUR TIMES
SEVEN IS TWENTY
EIGHT

FIVE TIMES SEVEN
IS THIRTY FIVE

SIX TIMES SEVEN IS
FORTY TWO



I WAS SENT TO SCHOOL WHEN I WAS THREE YEARS OLD.

SEVEN TIMES SEVEN IS...

TWEET
TWEET

YAWN

TWEET
TWEET!

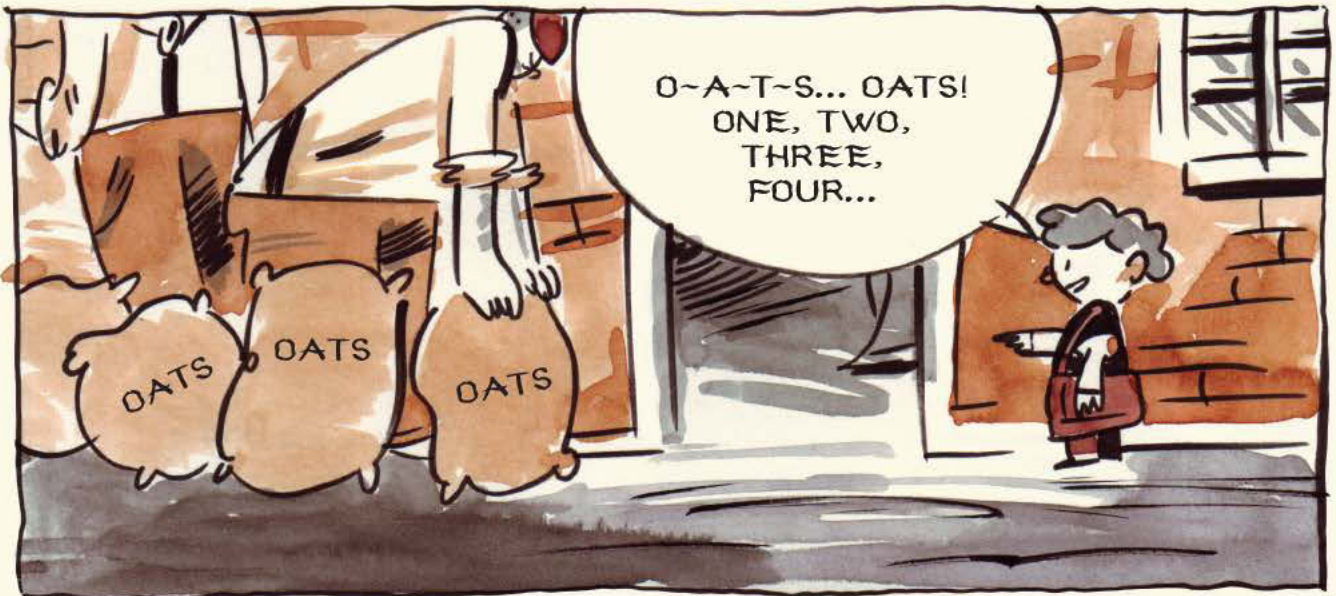
SKYLARK?

TWEET
TWEET!

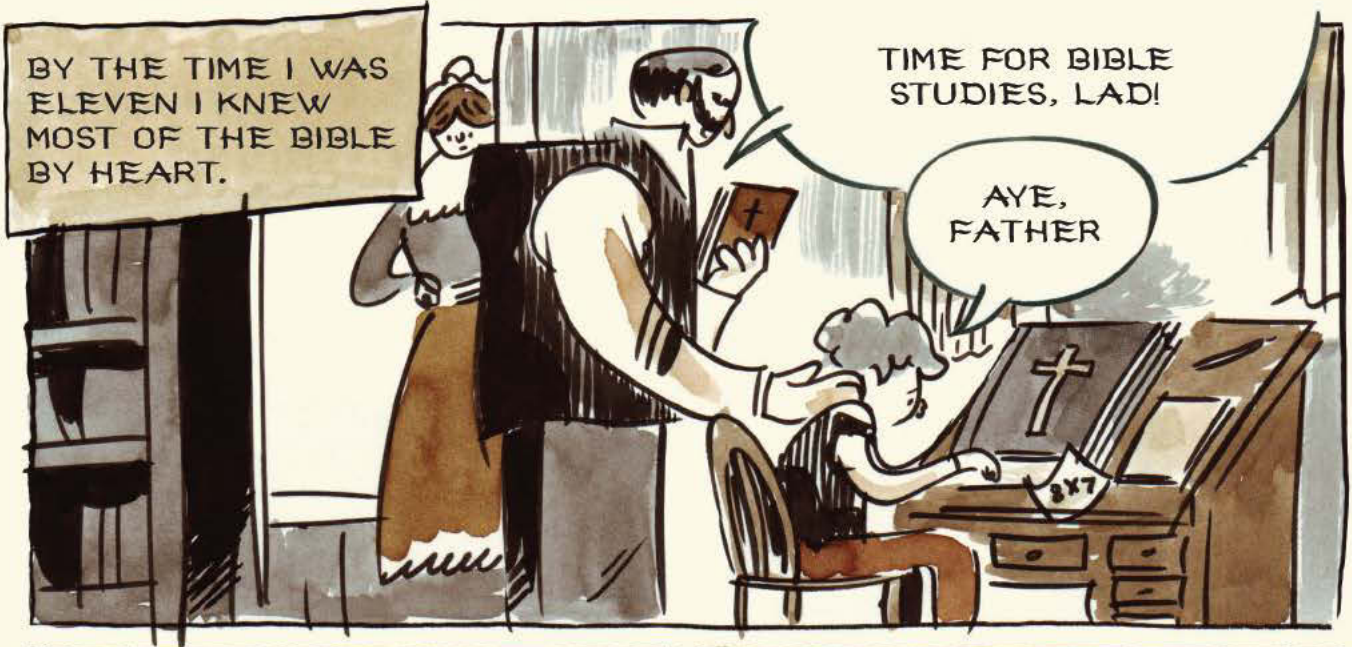
THWOP!

NO! PAY
ATTENTION,
BOY!

BUT THE WORLD OUTSIDE
WAS MY REAL SCHOOL.



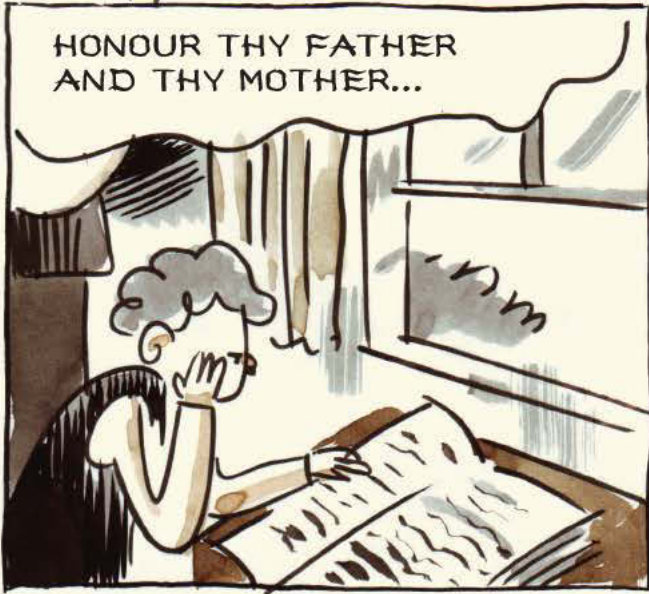




BY THE TIME I WAS ELEVEN I KNEW MOST OF THE BIBLE BY HEART.

TIME FOR BIBLE STUDIES, LAD!

AYE, FATHER



HONOUR THY FATHER AND THY MOTHER...

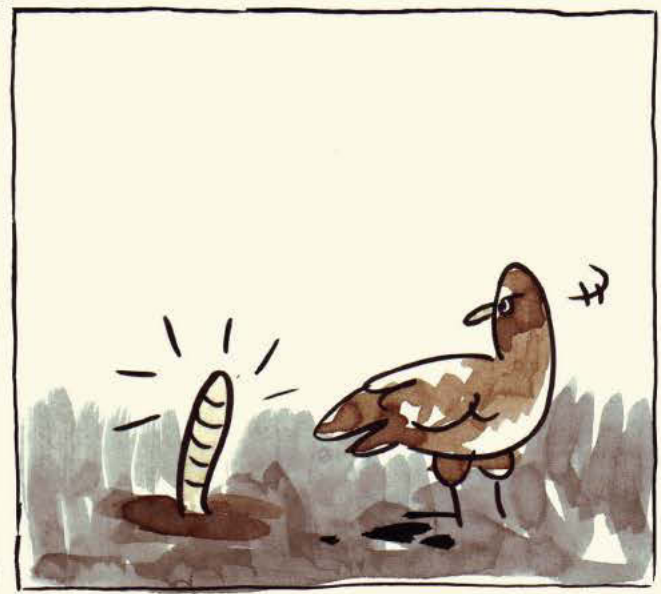
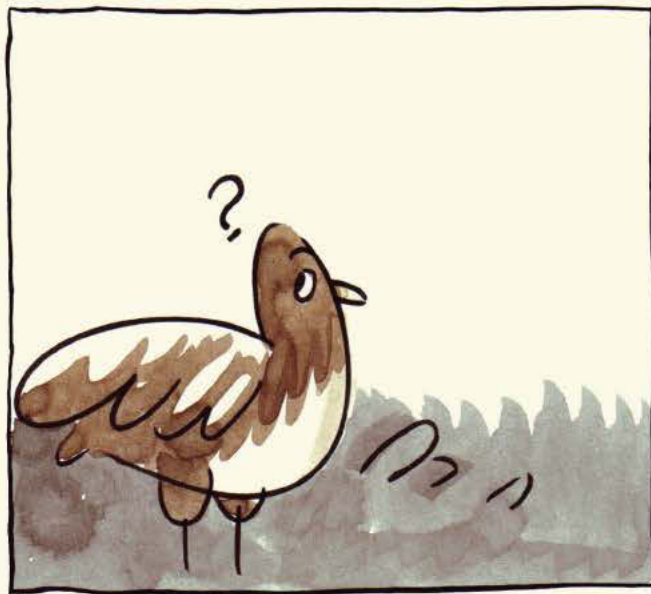


LET MAN HAVE DOMINION OVER THE BIRDS OF THE AIR AND THE FISH OF THE SEA.

MY HEART ACHED TO BE OUTDOORS.



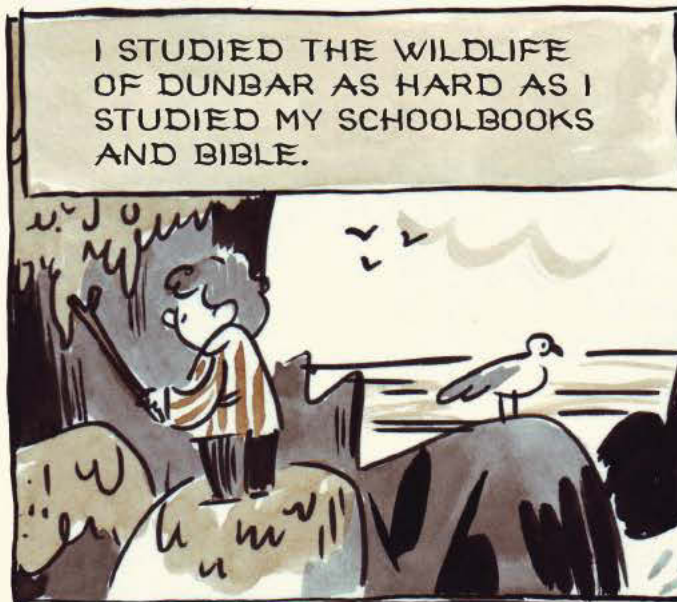
I LOVED EVERYTHING THAT WAS WILD.







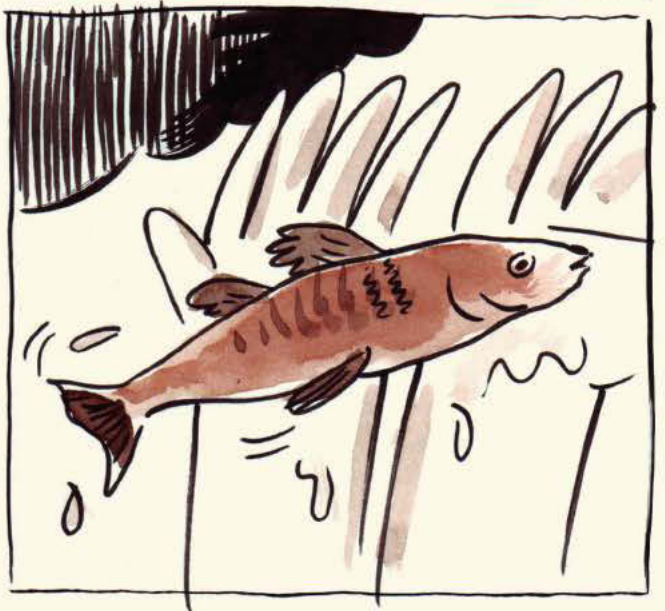






WE LOVED TO WATCH THE WAVES IN AWFUL STORMS, THUNDERING ON THE BLACK HEADLANDS WHEN THE SEA AND SKY CRASHED TOGETHER AS ONE. MOST OF ALL, WE LOVED TO PLAY SCOTCHERS, A GAME OF DANGEROUS DARES.





ONE SCOOTCHER LANDED US IN BIG TROUBLE...

WE'RE AT THE TOP OF THE MOUNTAIN!



HOW DO WE GET DOWN?

SLIDE!



HUP

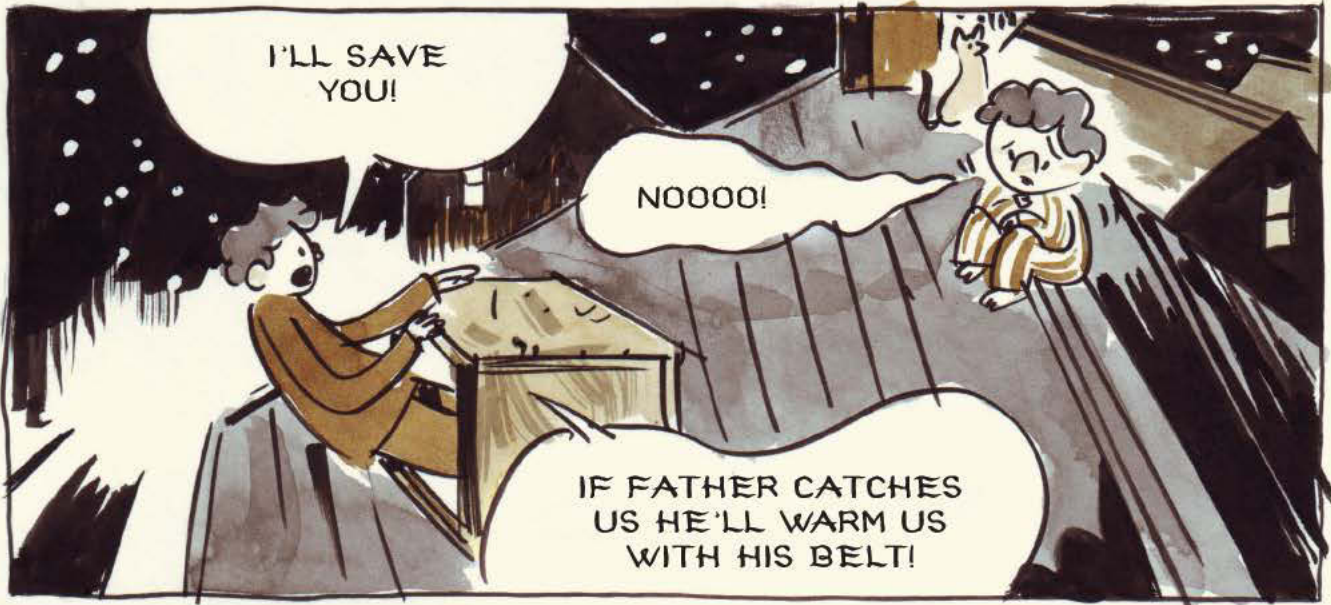


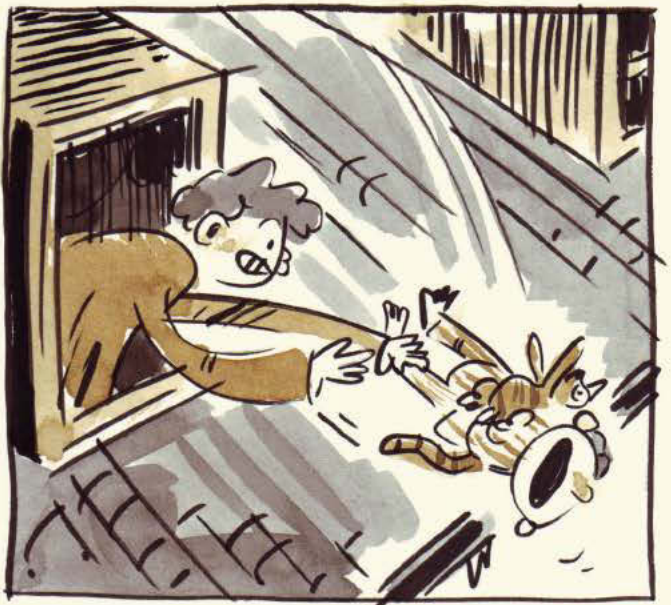
COME ON! SCOOTCHER!



HELP! I'M STUCK...







2. Let's Go West!





ONE DAY MY FATHER GAVE US
THE SURPRISE OF OUR LIVES.

BAIRNS,
PUT
AWAY
YOUR
BOOKS.



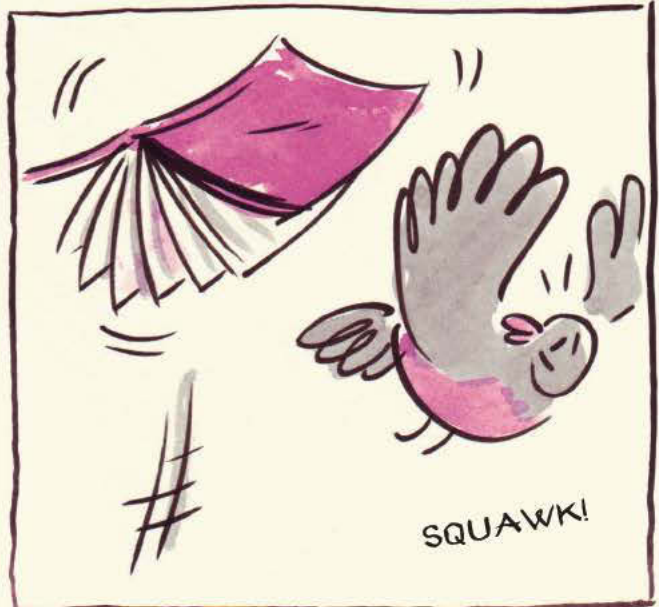
TOMORROW
WE SAIL
FOR
AMERICA!

EH?



NO MORE STUDY! WE'LL
LIVE IN BOUNDLESS
WOODS FULL OF GOOD
THINGS, JOHN. TREES
FULL OF SUGAR, GROWING
IN GROUND FULL OF
GOLD...







NEXT MORNING I SET SAIL WITH MY FATHER,
BROTHER DAVID AND SISTER SARAH.



WE'D BUILD A HOUSE BIG ENOUGH FOR
US ALL AND THEN MOTHER AND THE
YOUNGER CHILDREN WOULD FOLLOW.



LOOK AFTER
YOUR WEE
BROTHER AND
SISTER. NO
SCOTCHERS!

I'LL MISS
YOU,
MOTHER.

DON'T GREET,
ANN. WE'LL
BUILD YOU A
FINE HOUSE IN
AMERICA.

AWAY
Y' GO.
I'LL
MANAGE.





WE SAILED TO AMERICA IN A SHIP CALLED THE WARREN.



INSIDE THE CABIN...

WHO PACKED ALL THESE BOOKS? THE BIBLE'S ALL WE NEED.

BUNK BEDS!

A SEA VIEW!



JAPAN!

AFRICA!

THE AMAZON!

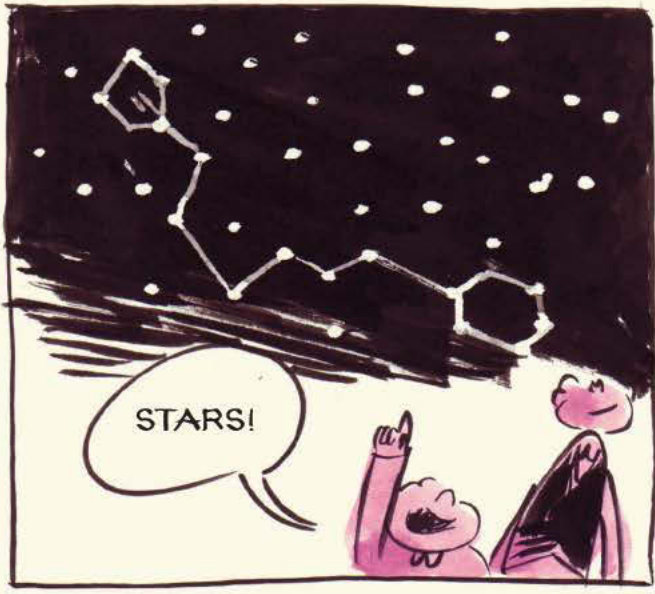
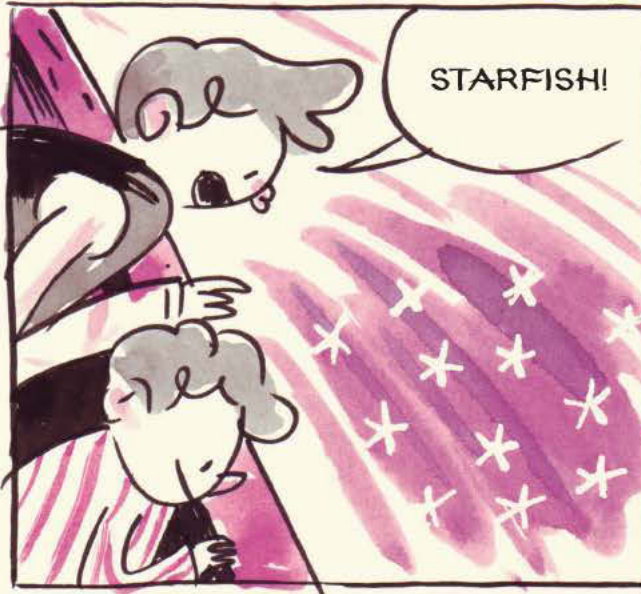
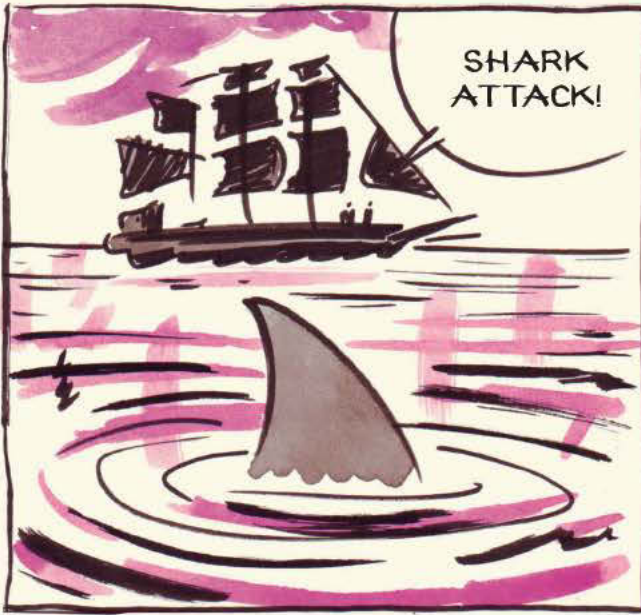


OUT ON THE VAST
WILDERNESS OF OCEAN I
SAW THAT EVERYTHING IS
HITCHED TO EVERYTHING
ELSE IN THE UNIVERSE.



THE WORLD, I'D BEEN TOLD,
WAS ALL MADE ESPECIALLY
FOR HUMANS - BUT WAS IT
REALLY?





AFTER SIX WEEKS AT SEA,
FLYING TO OUR FORTUNES ON
THE WINGS OF THE WINDS...



LAND AHOY!



IT'S ALL
EMPTY!

AN'
WILD!

THE OX CART TO WISCONSIN
FELT AS BUMPY AS THE SHIP
ON A STORMY SEA AS WE
TRAVELLED ACROSS SWAMPS
AND TRACKLESS HILLS.



THE MOMENT WE SAW OUR HUT IN A SUNNY WOOD,
OVERLOOKING A FLOWERY GLACIER MEADOW AND A
GLIMMERING LAKE, DAVID AND I FELT RIGHT AT HOME.











THIS SUDDEN SPLASH INTO A GLORIOUS WILDERNESS MADE US HAPPY AS SKYLARKS.



NATURE STREAMED INTO US, TEACHING US WONDERFUL, WILD LESSONS.



HOW DO WOODPECKERS PECK HOLES SO PERFECT AN' ROUND?

SCREEECH!



WHY DOES A BLUE JAY HAVE GREEN EGGS?



JOHN! DAVID! GET BACK HERE NOW OR I'LL...

FOR A WHILE I WAS FREE TO PLAY IN THE MAGNIFICENT WILDERNESS AND MAKE FRIENDS WITH ALL ITS CREATURES. IT WAS HEAVEN ON EARTH.



FOUNTAIN LAKE MEADOW AT TWILIGHT WAS A MAGICAL PLACE, AGLOW WITH MILLIONS OF TWINKLING FAIRY LIGHTS.



LIGHTNING BUGS!



LET'S CATCH 'EM!





3. Genius John in a Brave New World





MY TIME OF FREEDOM WAS SOON OVER. ONCE I TURNED TWELVE, FATHER SAID I WAS OLD ENOUGH TO WORK LIKE A MAN. BUILDING A HOME AND A FARM IN THE WILDERNESS MEANT BACK-BREAKING WORK, EVERY DAY, EVERY HOUR OF DAYLIGHT...



CHOPPING...



GRUBBING...



STUMP-DIGGING...



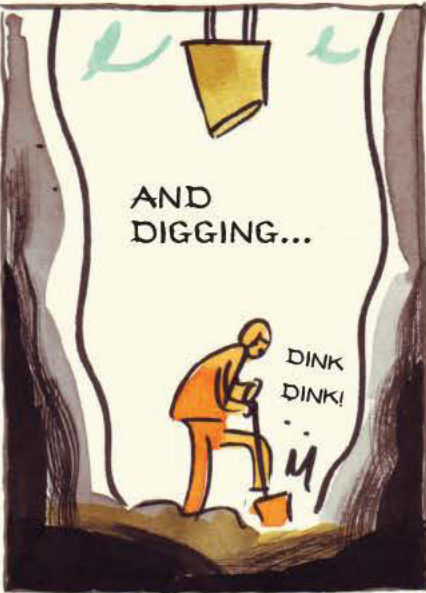
FENCE-BUILDING...



BARN~BUILDING...



HOUSE~BUILDING...



AND DIGGING...

DINK
DINK!

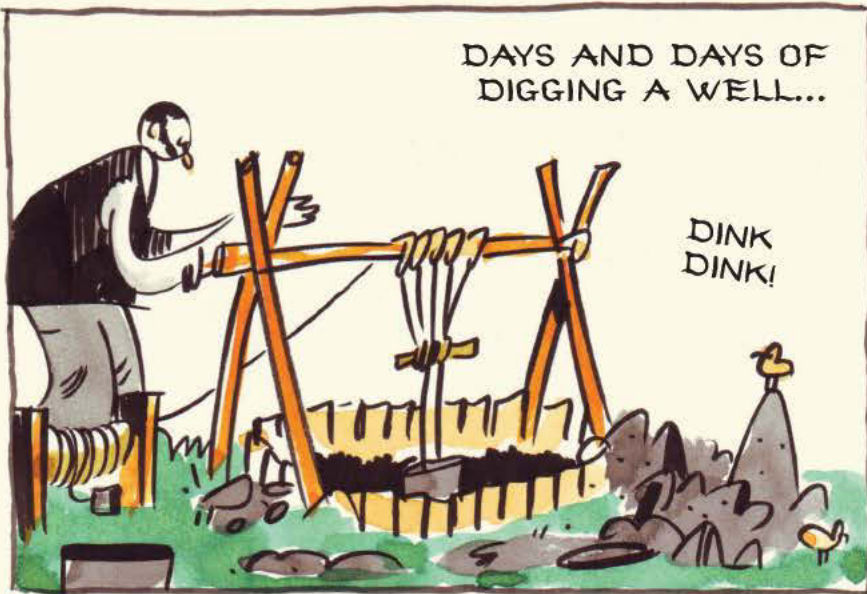


LOTS OF DIGGING.

DINK
DINK!



DINK
DINK!



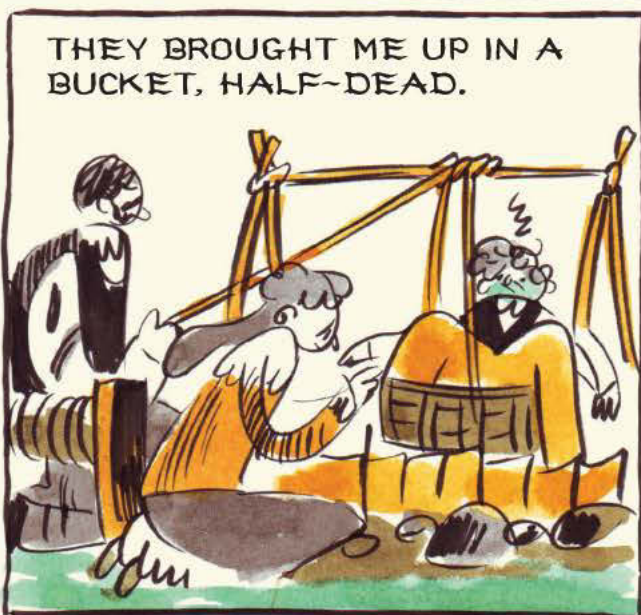
DAYS AND DAYS OF DIGGING A WELL...

DINK
DINK!



UNTIL...

DINK~



MY BODY GREW TIRED BUT
MY MIND WAS RESTLESS
AND HUNGRY.



AFTER SUPPER EACH NIGHT
I'D GO TO BED THEN WAKE
AT ONE IN THE MORNING



SO I'D HAVE FIVE HUGE
HOURS TO READ



BEFORE MY REAL WORK
BEGAN AT DAWN.



Then
and
Now

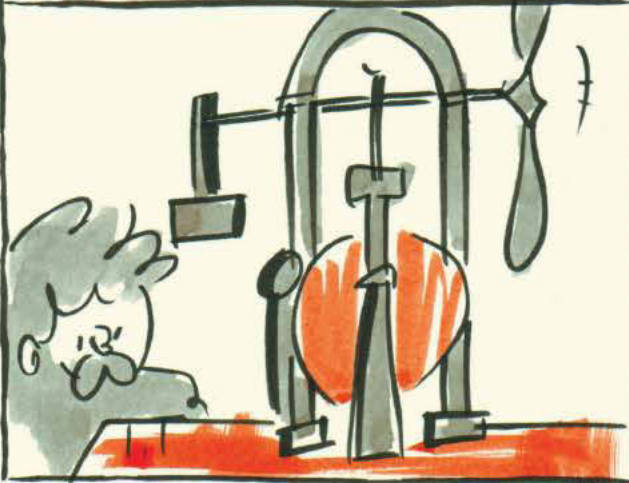




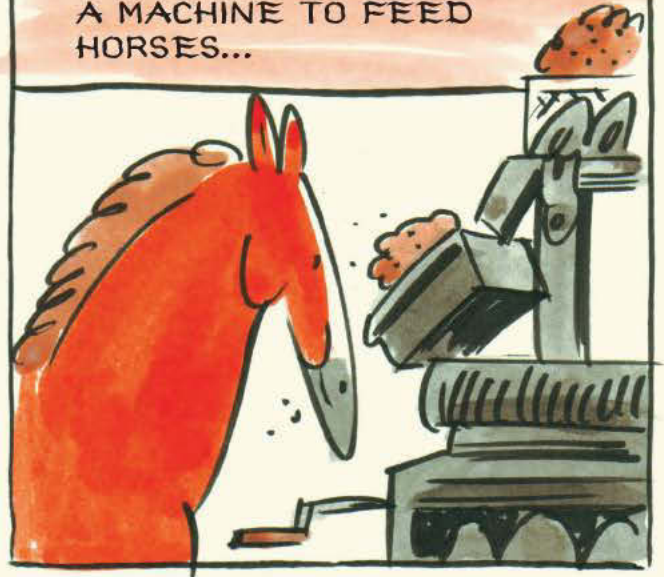
NOW MY MIND EXPLODED WITH IDEAS! I BEGAN A FRENZY OF INVENTION... CLOCKS,



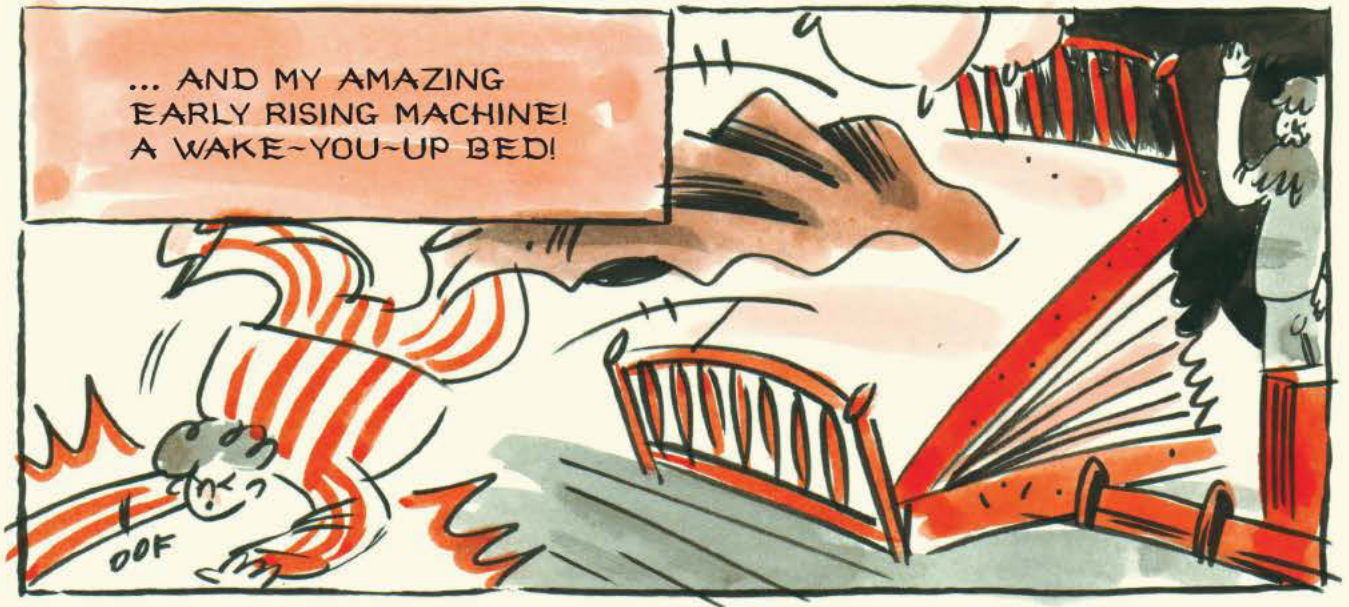
AN ANEMOMETER,



A MACHINE TO FEED HORSES...



... AND MY AMAZING EARLY RISING MACHINE!
A WAKE-YOU-UP BED!







I WANTED TO MAKE MY MARK ON THE WORLD. SO I LEFT HOME AND TOOK MY INVENTIONS TO MADISON STATE FAIR.

MY TURN!

STOP PUSHING!

CROWDS GATHERED TO SEE ME AND MY MACHINES. SOON I WAS FAMOUS!

HE IS A GENIUS!
I CAN NEVER GET THAT BOY OUT OF BED.

YOUNG WIZARD
MESMERISES
CROWDS!
GENUINE
GENIUS!

Invent,
Design and
Make





4. A Terrible Darkness Made Me See





I STILL LOVED NATURE AND BEAUTY, SO ONCE I'D EARNED ENOUGH I FOLLOWED MY DREAM TO STUDY AT UNIVERSITY AND LEARN ALL ABOUT THE WORLD.



BUT I LOVED THE BUZZ AND EXCITEMENT OF FACTORIES TOO... WHAT WAS I TO DO WITH MY LIFE?



THEN A TERRIBLE ACCIDENT
BLINDED ME - AND I FOUND
OUT WHAT I REALLY WANTED.



MY EYES!
EVERYTHING'S
DARK!

THE DOCTOR SAID I'D NEVER
SEE AGAIN.



I'M
SORRY...

THESE WERE TRULY
THE DARKEST DAYS
OF MY LIFE.





AND NOW I KNEW EXACTLY WHAT I WANTED TO DO.

5. I Will Walk One Thousand Miles





I WAS LIKE A MAN LOST IN THE DESERT WHO FINDS AN OASIS AND MUST DRINK.



BUT I WAS THIRSTY FOR THE WHOLE WORLD!



I WANTED TO JUMP INTO IT AND IMMERSE MYSELF IN ITS WONDERS.

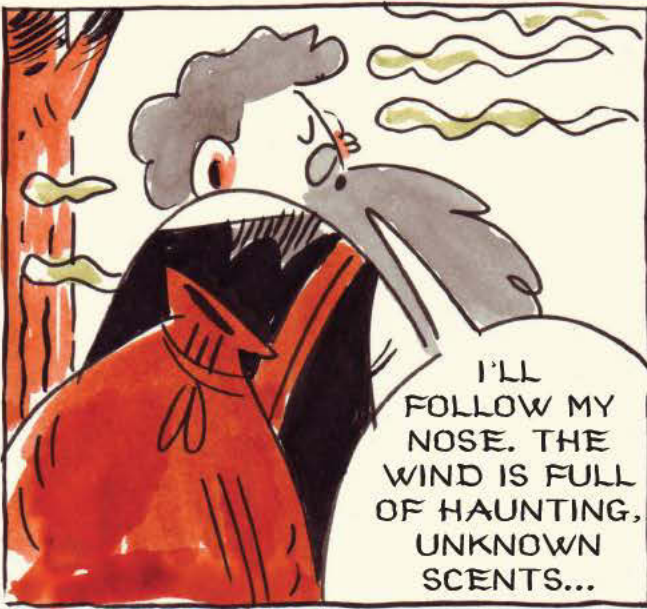


LACEI
TIEI



SO I WENT ON A THOUSAND-MILE WALK TO DRINK IN THE GRAND SHOW OF NATURE.





IN TENNESSEE I FOUND SOMETHING I'D DREAMED OF FROM BOYHOOD,



BUT HAD NEVER SEEN BEFORE.



I HAD MANY ADVENTURES
ALONG THE WAY...

HANDS
UP AN'
GIMME YOUR
MONEY!



I'VE NO
MONEY,
JUST...



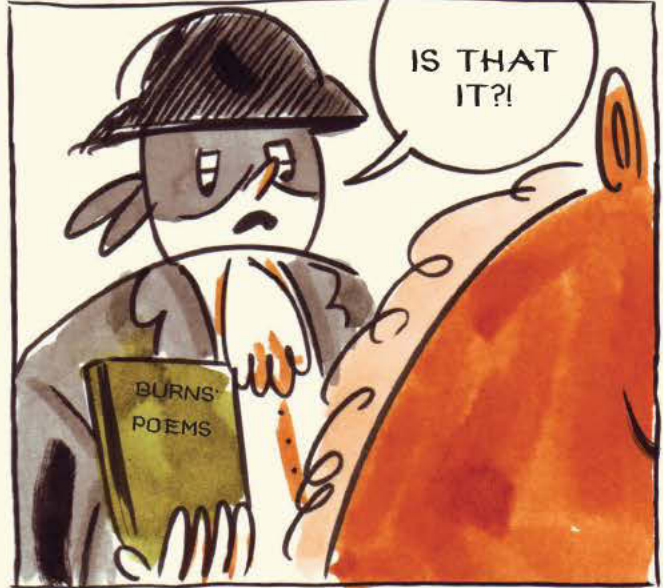
THESE
...

BURNS'
POEMS

SOAP



IS THAT
IT?!



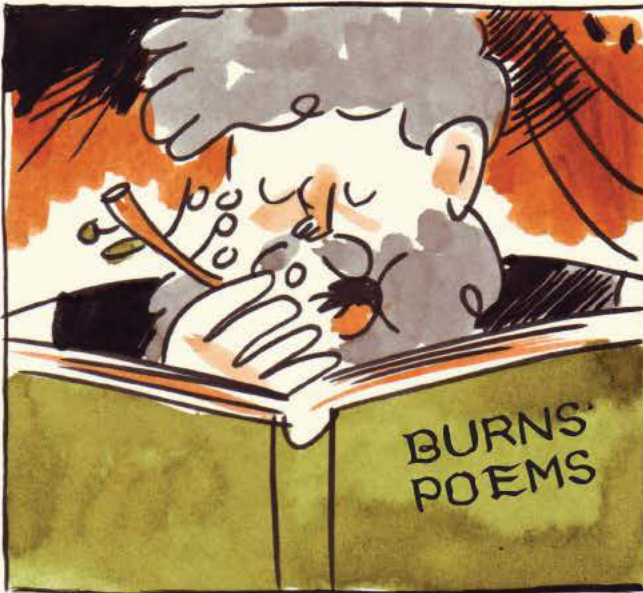
HAVE
IT BACK
THEN...



IN SAVANNAH, GEORGIA, I RAN OUT OF MONEY AND BUILT A HUT OUT OF BRANCHES.



THE ANIMALS THOUGHT I WAS SOME STRANGE BIG BIRD IN A NEST.



LOOKS A BIT NUTTY TO ME.



ONCE MY FAMILY HAD SENT MY SAVINGS AND I HAD MONEY IN MY POCKET AGAIN, I PLANNED TO SAIL FOR SOUTH AMERICA.



BUT IN FLORIDA I
CAUGHT MALARIA.



UURGH...

BZZZ



NIP!

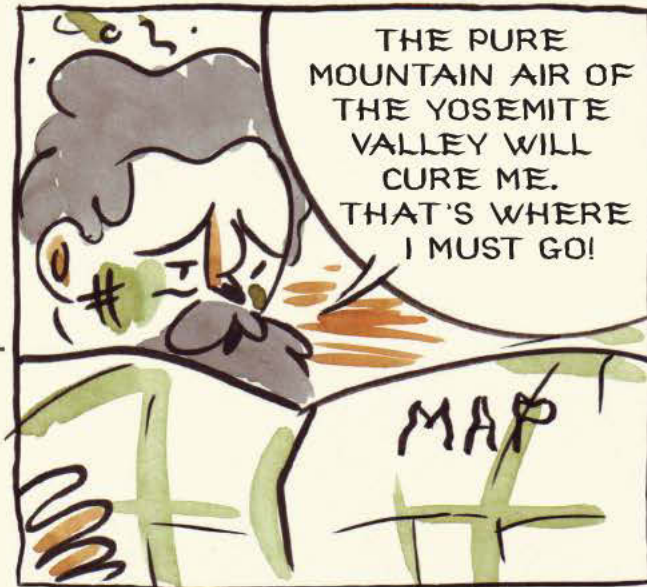


OUCH!



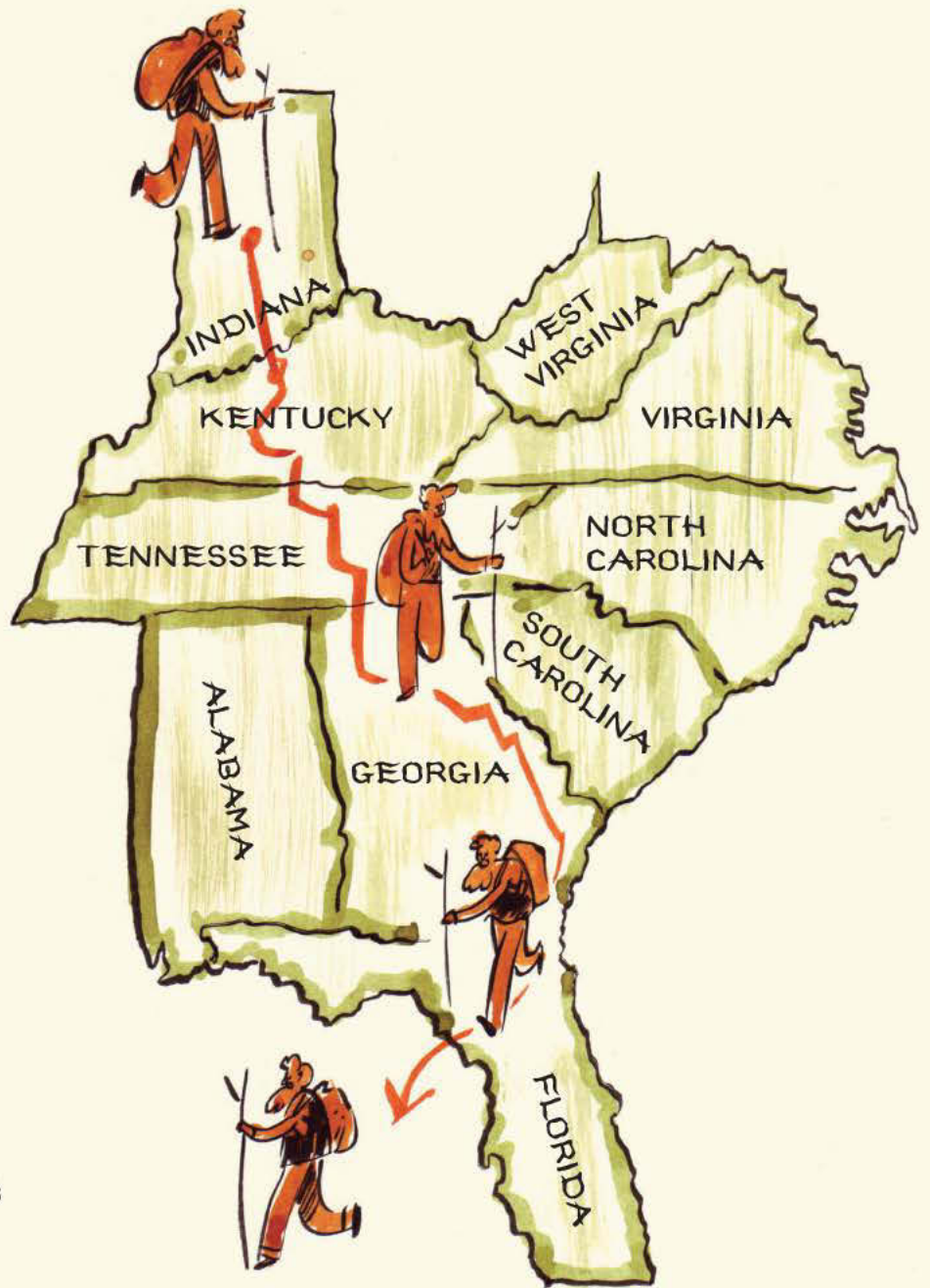
THE PURE
MOUNTAIN AIR OF
THE YOSEMITE
VALLEY WILL
CURE ME.
THAT'S WHERE
I MUST GO!

MAP



I HAD SEEN SO MUCH ON MY
THOUSAND-MILE JOURNEY
AND I WOULD TRAVEL MANY
THOUSANDS OF MILES MORE
IN MY LIFE...





NOW, I SAILED TO CALIFORNIA.



6. The Mountains Are Calling Me!



IN THE SPRING OF
1868 I ARRIVED IN THE
GREAT CENTRAL VALLEY
OF CALIFORNIA WITH
ITS MAJESTIC SIERRA
NEVADA MOUNTAINS.

A VAST VALLEY OF
FLOWERS STRETCHED
BEFORE ME LIKE
A LAKE FULL OF
RAINBOWS. BEYOND
THAT WERE THE
GIANT PEAKS OF
THE MOUNTAINS.



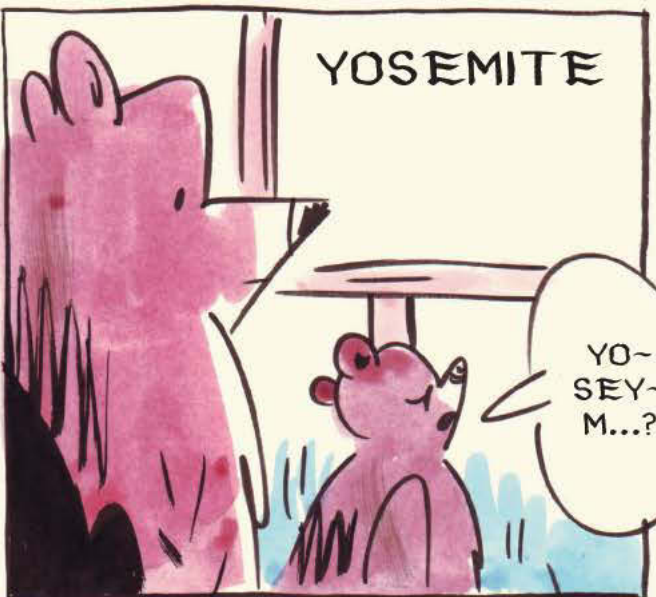


I NAMED THESE MOUNTAINS
THE RANGE OF LIGHT.

SO MUCH
BEAUTY! THE
MOUNTAINS
GLOW IN THE
SUN AS IF
THEY'RE MADE
OF LIGHT.

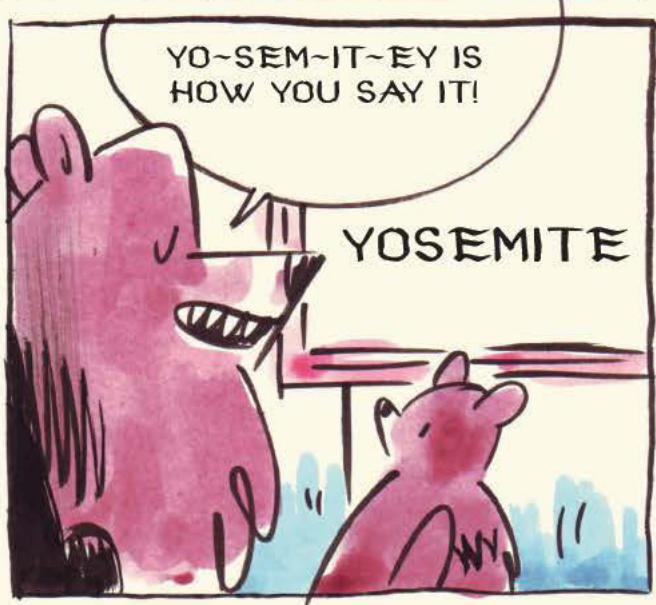


THEN I SET OFF FOR THE
YOSEMITE VALLEY I SO
LONGED TO SEE.



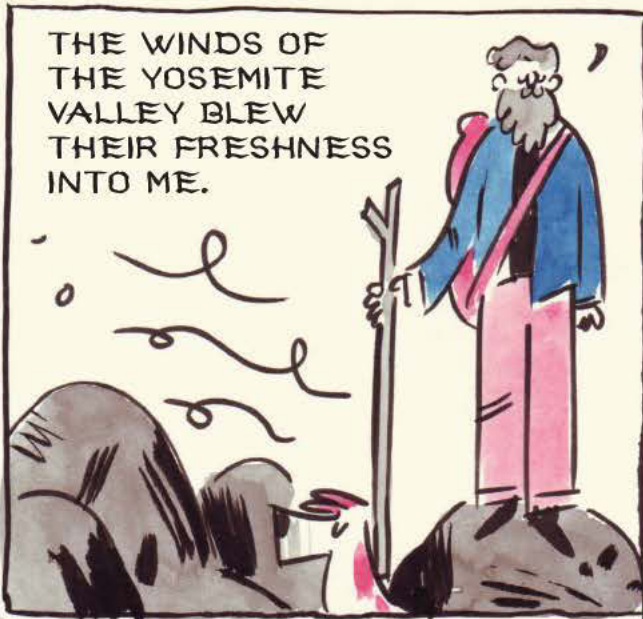
YOSEMITE

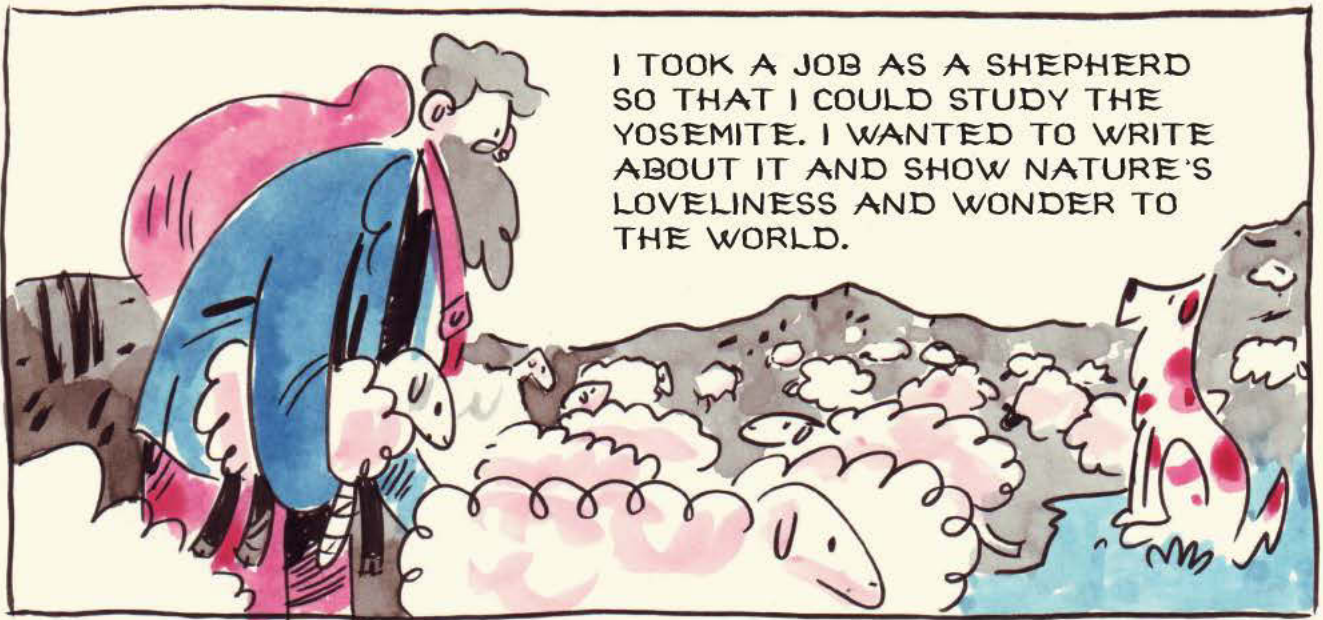
YO-
SEY-
M...?



YO-SEM-IT-EY IS
HOW YOU SAY IT!

YOSEMITE





I TOOK A JOB AS A SHEPHERD SO THAT I COULD STUDY THE YOSEMITE. I WANTED TO WRITE ABOUT IT AND SHOW NATURE'S LOVELINESS AND WONDER TO THE WORLD.



CLIMB THE MOUNTAINS AND NATURE'S PEACE WILL FLOW INTO YOU AS SUNSHINE FLOWS INTO TREES.



WE'RE FLYING THROUGH SPACE WITH THE OTHER STARS, ALL SHINING TOGETHER AS ONE.



THE WHOLE UNIVERSE IS AN INFINITE STORM OF BEAUTY!

ONE MOUNTAIN TOOK ME
SEVEN HOURS TO CLIMB...

AND SEVEN MINUTES TO
COME BACK DOWN AGAIN...



AVALANCHE!
LET THE
POWER OF
NATURE
SWEEP YOU
AWAAAAAY!



I DISCOVERED THAT THE
CLEAREST WAY INTO THE
UNIVERSE IS THROUGH A
FOREST WILDERNESS.



I NEVER
SAW AN
UNHAPPY
TREE.



TREES TRAVEL AS FAR
AS WE DO, WANDERING
IN ALL DIRECTIONS.

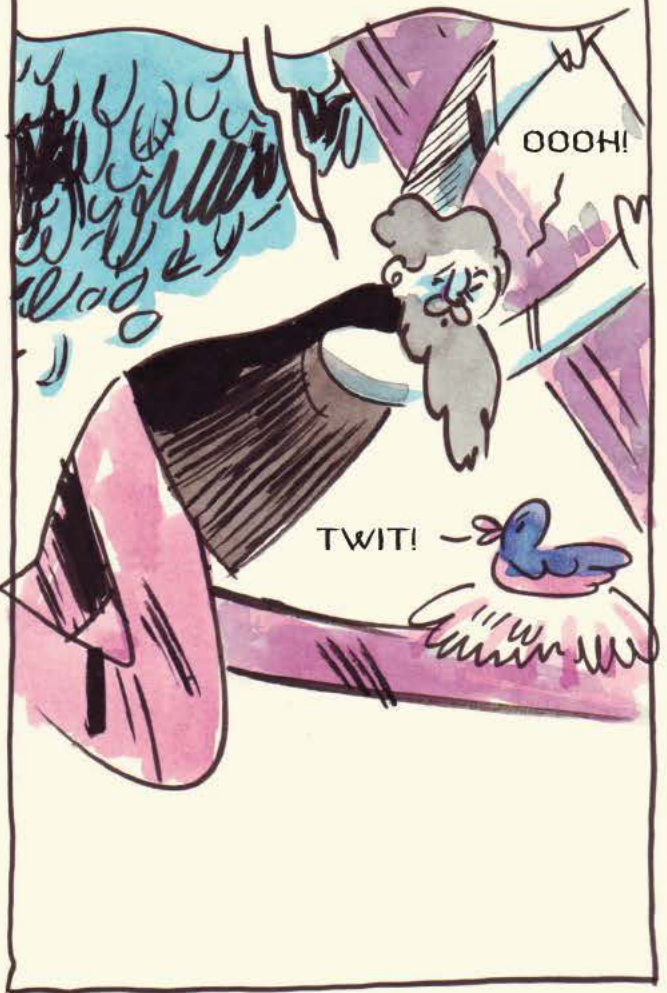


WITH EVERY WIND,
TRAVELLING WITH US
AROUND THE SUN.



TWO MILLION
MILES A DAY!

AND THROUGH SPACE,
HEAVEN KNOWS HOW
FAST AND FAR...



BETWEEN EVERY
TWO PINES THERE IS
A DOOR LEADING TO
A NEW WAY OF LIFE.

THIS
IS THE
LIFE!

DINNER!

DINNER!



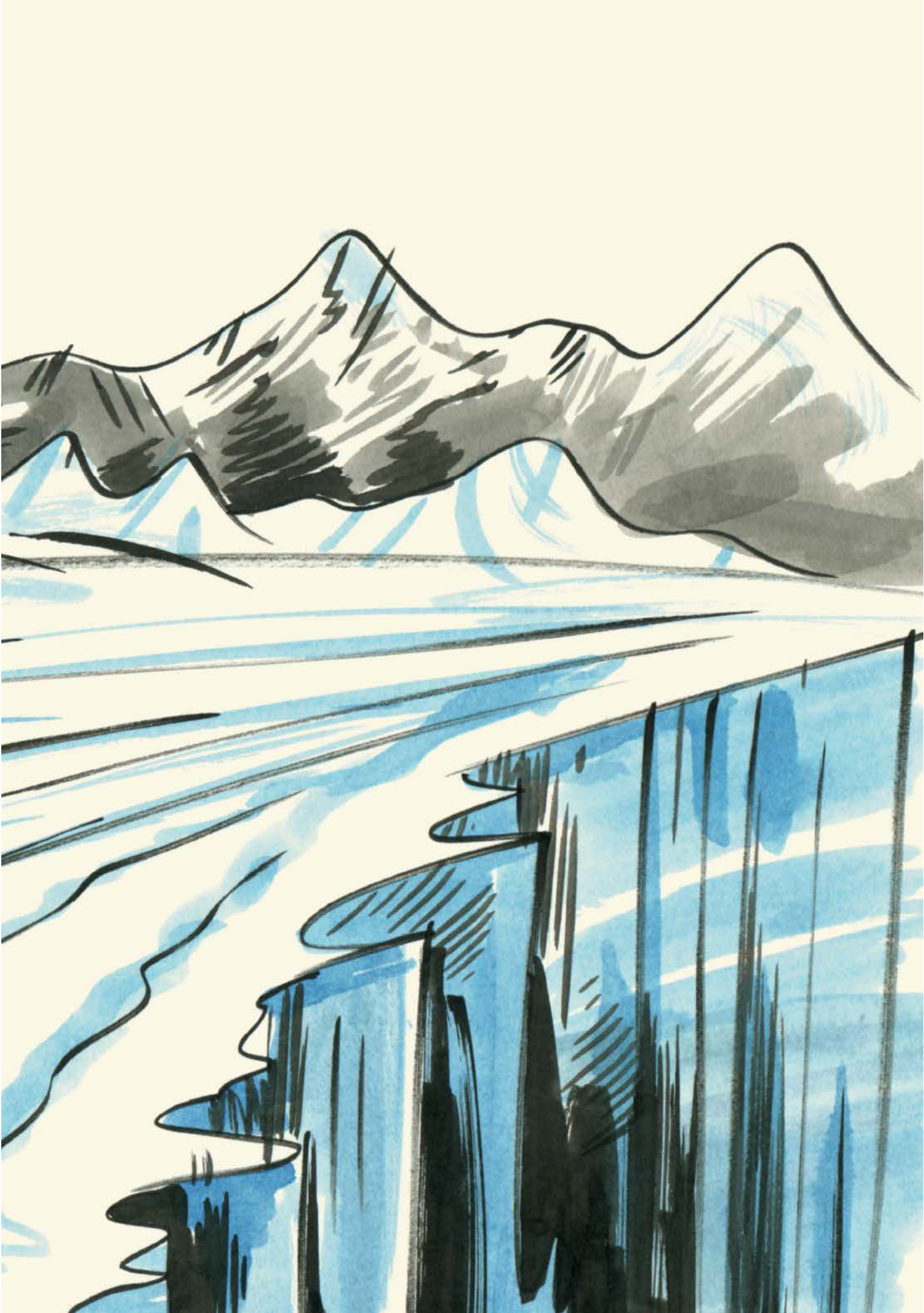
Nature
Detectives

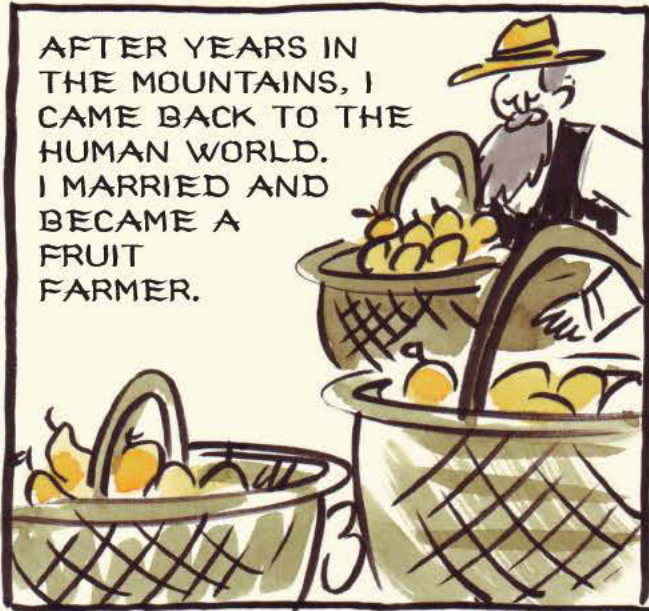
Biodiversity



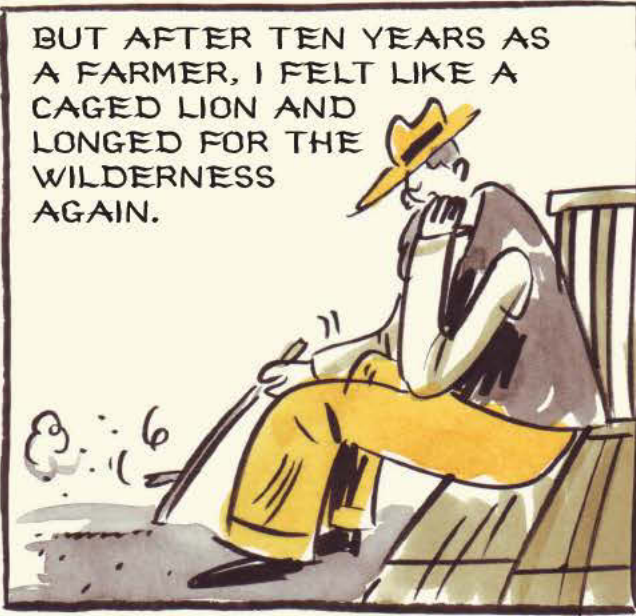
7. A Marriage Made In Heaven



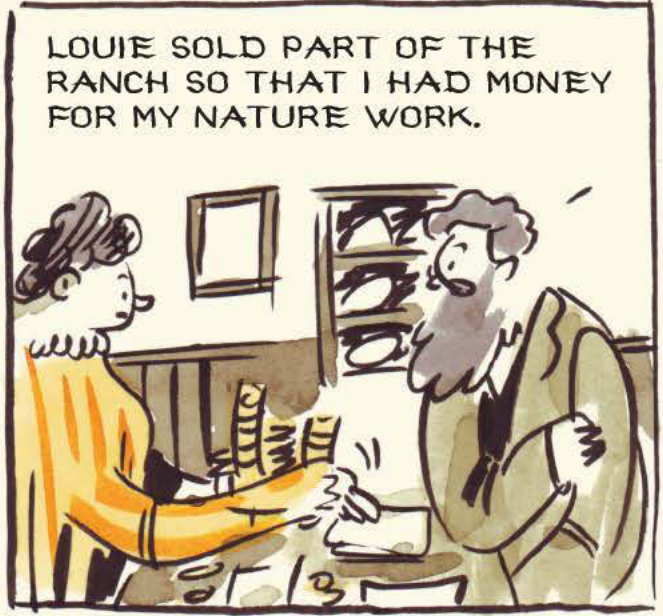




BUT AFTER TEN YEARS AS A FARMER, I FELT LIKE A CAGED LION AND LONGED FOR THE WILDERNESS AGAIN.



LOUIE SOLD PART OF THE RANCH SO THAT I HAD MONEY FOR MY NATURE WORK.



HERE'S FRUIT FOR THE JOURNEY, PAPA!



PLUM,
APPLE,
PEAR.

OFF YOU GO THEN!
WE'LL MANAGE.



YOU'RE THE BEST.



HIGH IN THE SIERRA NEVADA MOUNTAINS, I'D DISCOVERED A GLACIER AND SAW HOW THESE VAST, ANCIENT RIVERS OF ICE MUST HAVE CARVED OUT THE GREAT VALLEY.



I WANTED TO PROVE MY THEORY SO I WENT TO SEE THE LIVING GLACIERS OF ALASKA.



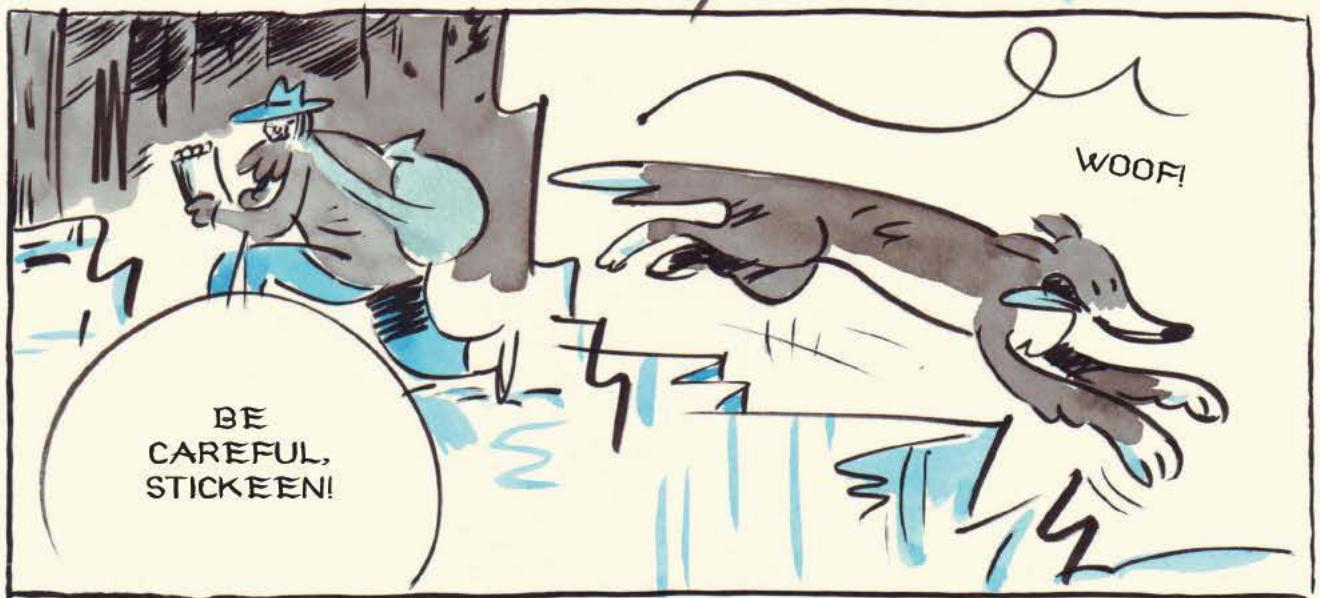
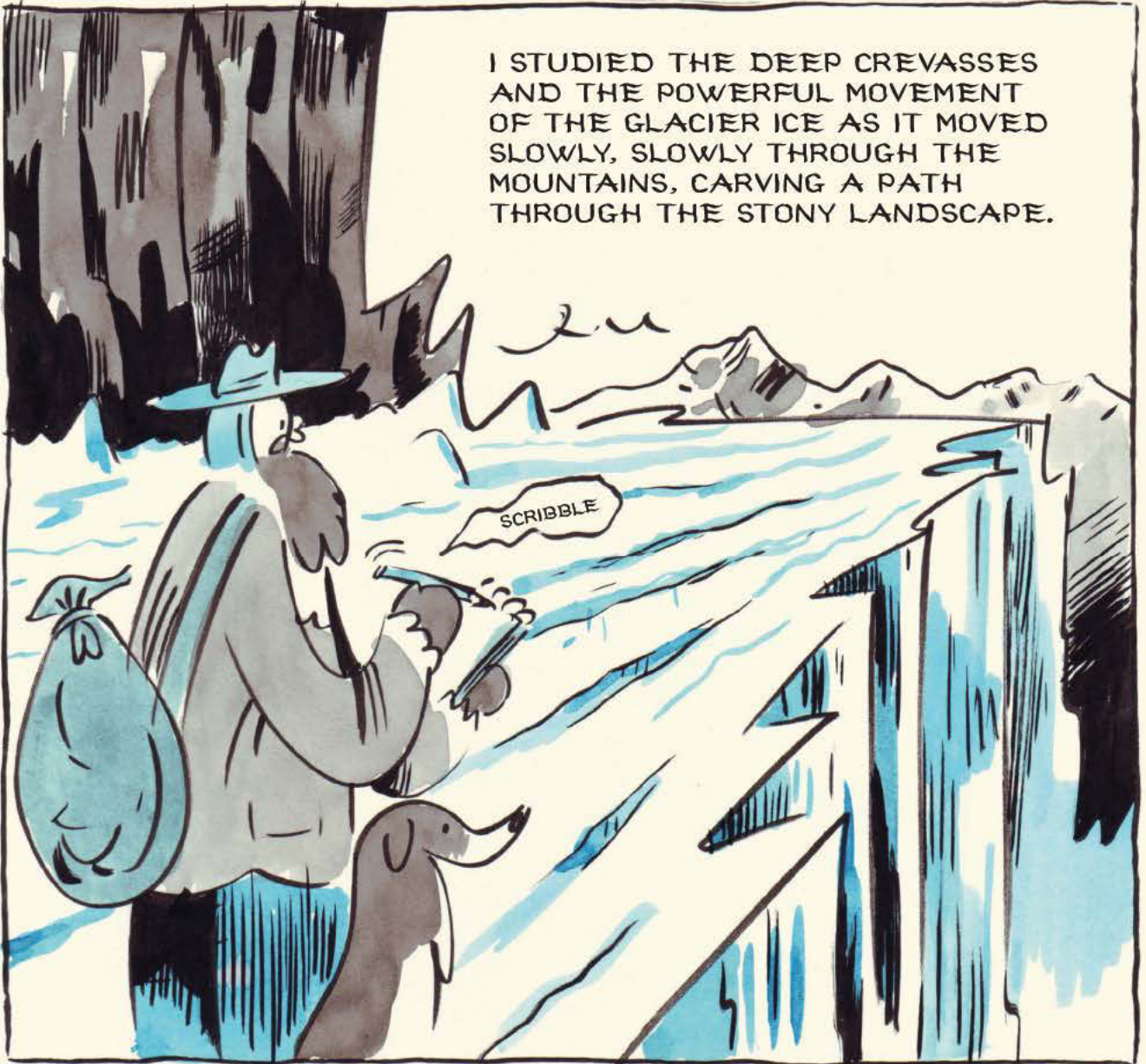
MY COMPANION WAS A DOG CALLED STICKEEN.



TOGETHER WE EXPLORED GLACIER BAY, AN UNKNOWN INLET SURROUNDED BY MOUNTAINS AND FULL OF ICEBERGS.



I STUDIED THE DEEP CREVASSES AND THE POWERFUL MOVEMENT OF THE GLACIER ICE AS IT MOVED SLOWLY, SLOWLY THROUGH THE MOUNTAINS, CARVING A PATH THROUGH THE STONY LANDSCAPE.



EVERYTHING
IS FLOWING
~ GOING
SOMEWHERE,



ANIMALS

AND SO-CALLED
LIFELESS ROCKS



AS WELL AS WATER.



GRAND GLACIERS

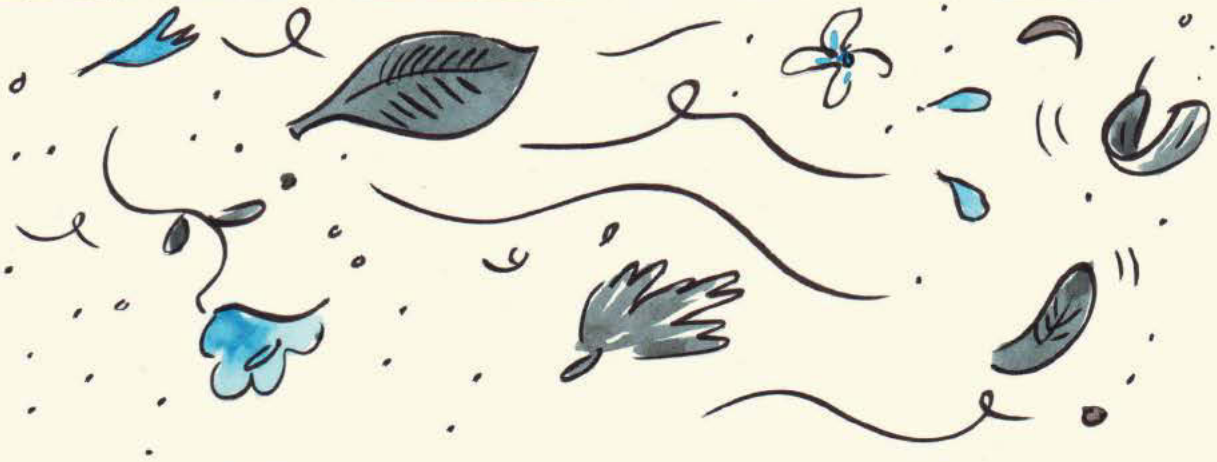


AND AVALANCHES,



MAJESTIC FLOODS CARRYING
MINERALS AND ROCKS,

AIR CARRYING PLANT LEAVES AND SPORES...



WHILE THE STARS GO STREAMING THROUGH SPACE
PULSING ON AND ON FOREVER LIKE BLOOD GLOBULES
IN NATURE'S WARM HEART.



THE SUN FELL. THE STORMY DARKNESS SWIRLED AROUND US AS WE TRIED TO HURRY HOMEWARDS.



WE STRUGGLED ACROSS A MAZE OF JUMBLED ICE AND DEATHLY CREVASSES.



WE'RE MAROONED ON AN ISLAND OF ICE!

WHIMPER...



THEN WE CAME TO A CHASM SO WIDE AND DEEP WE COULDN'T JUMP IT. AND WE COULDN'T GO BACK... THE BANK BEHIND WAS TOO HIGH.

A LONG, THIN BRIDGE OF ICE WAS OUR ONLY HOPE ACROSS THE CHASM. BUT IT SAGGED IN THE MIDDLE, MELTING.



DINK!

DINK!

WE'D HAVE TO CLIMB DOWN TO REACH THE BRIDGE THEN CLIMB UP A SHEER CLIFF OF ICE ON THE OTHER SIDE. COULD WE DO IT?



FOLLOW ME, STICKEEN. SEE, I'VE CUT STEPS IN THE ICE FOR US. DON'T BE SCARED.



I WAS TERRIFIED!

YOU CRAZY HUMAN!



MY FINGERS FROZE AS I CLIMBED.
IT WAS PERILOUS, THE DEADLIEST
THING I'VE EVER DONE.

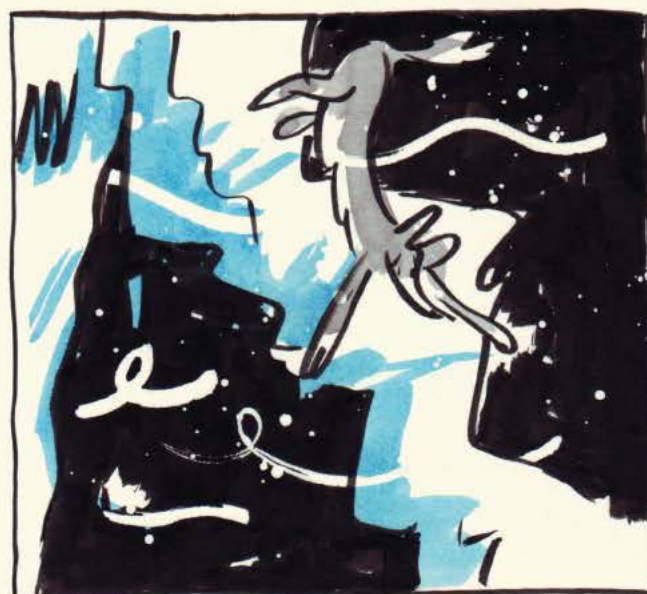
MADE IT!

NOW YOU, STICKEEN.
C'MON BOY!

NOPE.



WHEN STICKEEN SAW THERE WAS NO OTHER WAY, HE VENTURED ONTO THE BRIDGE.



I HELD MY BREATH AS THE ICY WINDS BLASTED HIM, WILLING HIM NOT TO FALL. DOGS ARE NOT GOOD CLIMBERS -

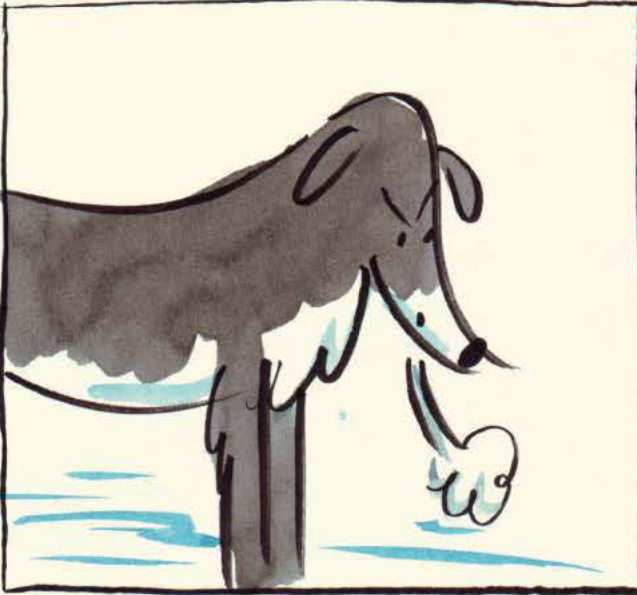


COULD HE MAKE IT TO
THE OTHER SIDE?





ONE, TWO,
THREEEEE...!



IN A GREAT WILD BOUND
STICKEEN LEAPT UP
THE STEPS, FAST AS
LIGHTNING - AND LANDED
SAFELY BESIDE ME!





BARK BARK BARK
BARK BARK BARK
BARK



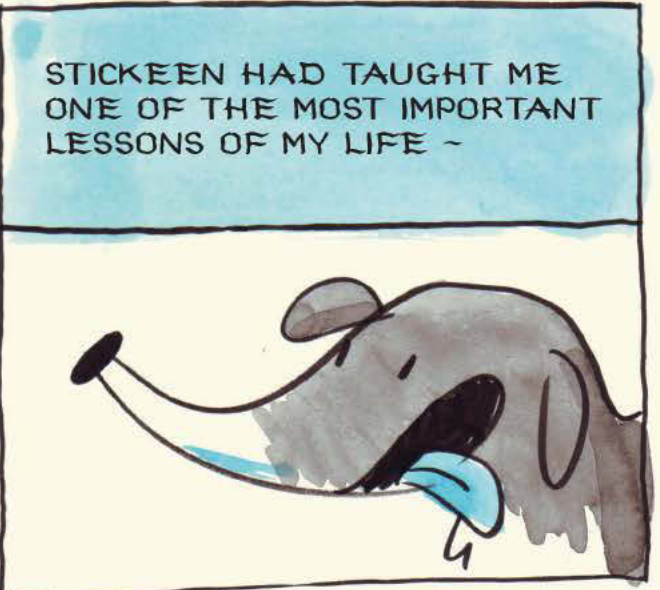
THAT AMAZING DOG RACED ABOUT LIKE A MAD CREATURE, BARKING AND HOWLING AND ROLLING IN THE SNOW, ALMOST BURSTING WITH JOY TO BE ALIVE.



FROM THAT DAY, WE WERE SOUL MATES.



STICKEEN HAD TAUGHT ME ONE OF THE MOST IMPORTANT LESSONS OF MY LIFE -



THAT HUMANS
AND ANIMALS
ARE TRUE
COMPANIONS ON
THIS EARTH,

HAHAHA!
SEE ME?
SEE THAT?



EACH OF US FULL OF LOVE,
HOPE AND FEAR.

WE ARE ALL NATURE'S
KIN, EVERY CREATURE
UNDER THE SUN.

BEST
FRIENDS
FOREVER.

WOOHOO!



8. The Wild Man Who Changed The World

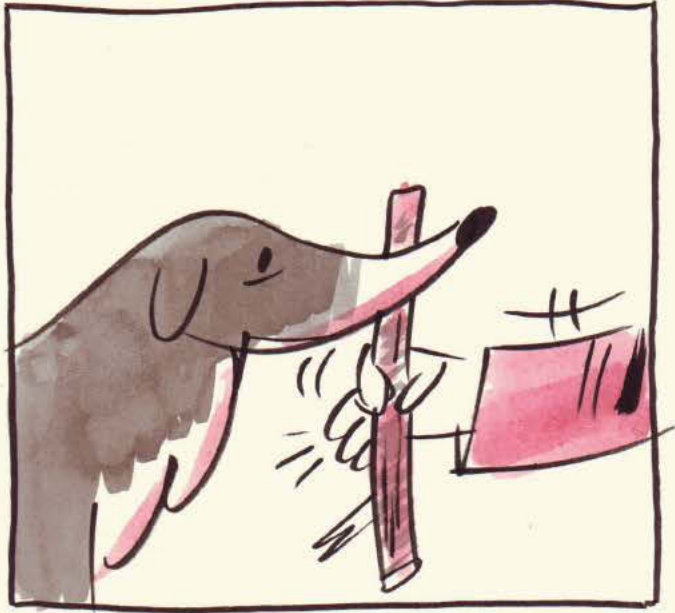




MY EXPERIENCE IN THE ALASKAN GLACIERS REVEALED AMAZING THINGS TO ME.



THANKS, STICKEEN!



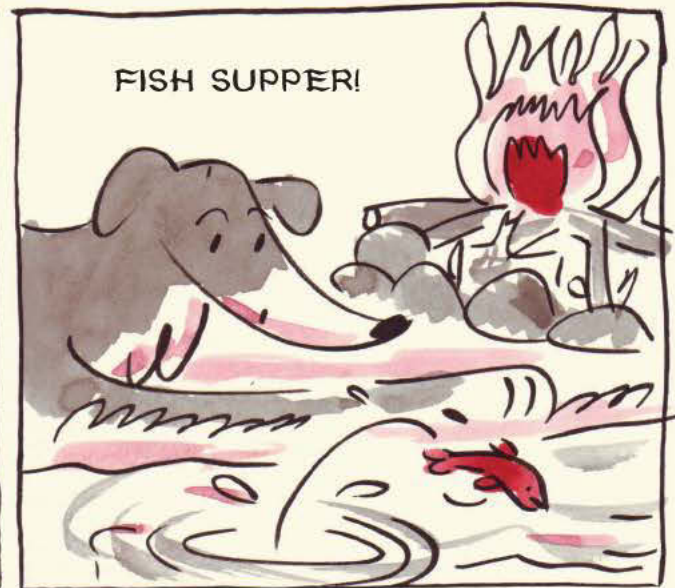
ANIMALS WERE NOT, AS PEOPLE OF MY TIME BELIEVED, PUT ON EARTH TO SERVE THE HUMAN RACE.

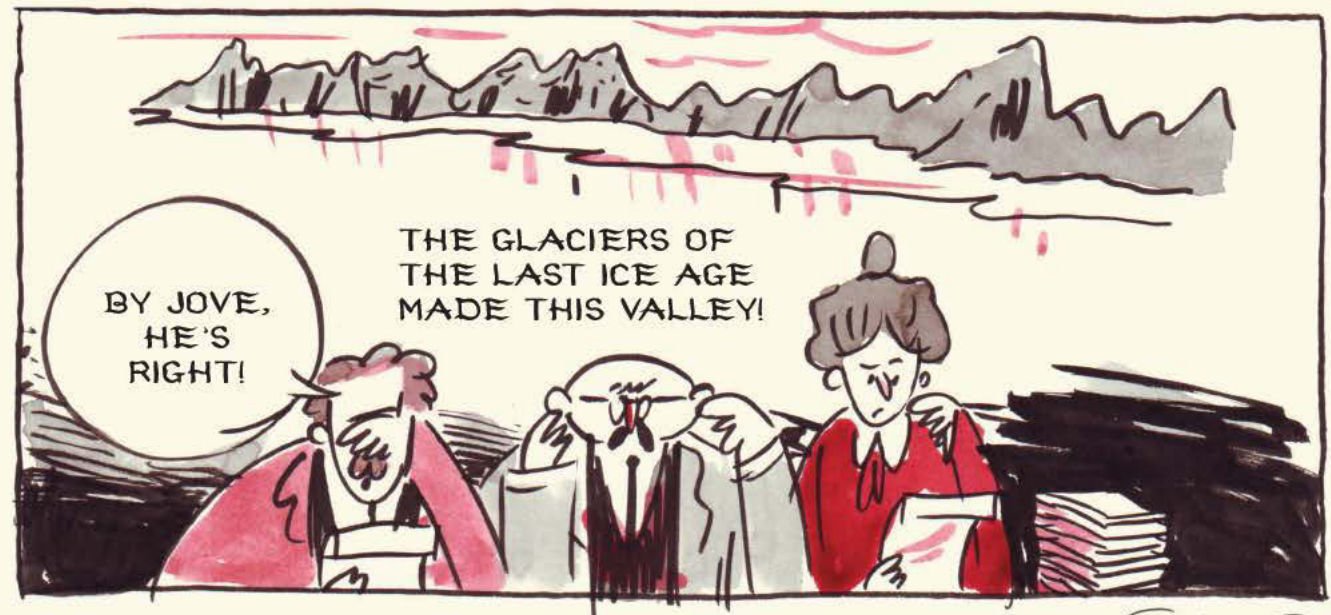
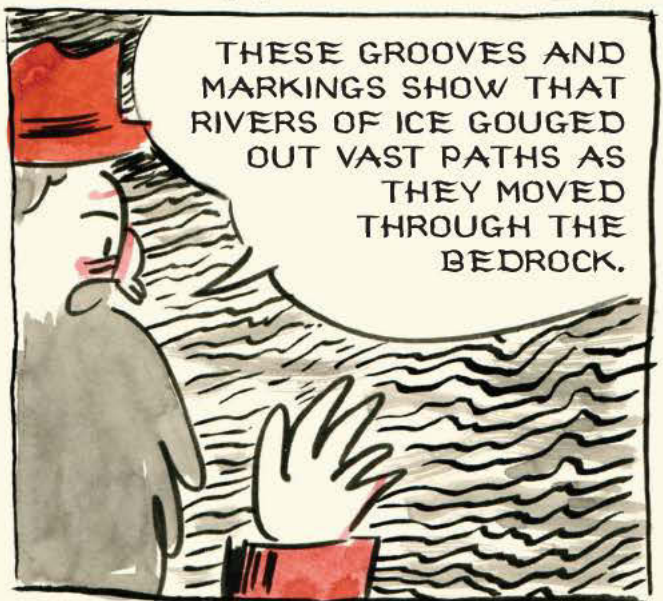


I MEAN, WHAT GOOD IS AN ALLIGATOR TO ANYONE?



FISH SUPPER!





NOW I WAS PASSIONATE ABOUT MAKING PEOPLE SEE WHY WE MUST PROTECT OUR PLANET. IT WOULD BE THE GREATEST WORK OF MY LIFE.



LET CHILDREN WALK WITH NATURE, IN WOODS AND MEADOWS, PLAINS AND MOUNTAINS... OUR BODIES WERE MADE TO THRIVE WHERE PURE AIR IS FOUND.



BUT IN SUMMER, THE MOUNTAIN WILDERNESS WAS NOISY, THE AIR BLACK WITH FIRE SMOKE, AS LOGGERS CLEARED AND FELLED THE TREES.



SO I BEGAN MY CAMPAIGN TO PROTECT AMERICA'S FORESTS.

I WROTE TO THE AMERICAN PEOPLE ABOUT THE DESTRUCTION OF THEIR FORESTS. THOUGH NERVOUS, I GAVE MANY PUBLIC TALKS.



A FOREST OF 3,000-YEAR-OLD GIANTS - ALL GONE IN A MOMENT.





OH, THE WRONGS
DONE TO TREES!



THE PEOPLE LISTENED
AND THEY FORCED THE
POLITICIANS TO ACT.



SAVE OUR FORESTS
OR WE'LL HAVE
NONE LEFT!

DEFEND THE
TREES!



I WANTED THE AMERICAN PEOPLE TO LOVE AND PROTECT NATURE, ESPECIALLY THE BEAUTIFUL HIGHLANDS OF CALIFORNIA. SO I CO-FOUNDED THE SIERRA CLUB. I WAS PRESIDENT FOR 22 YEARS.



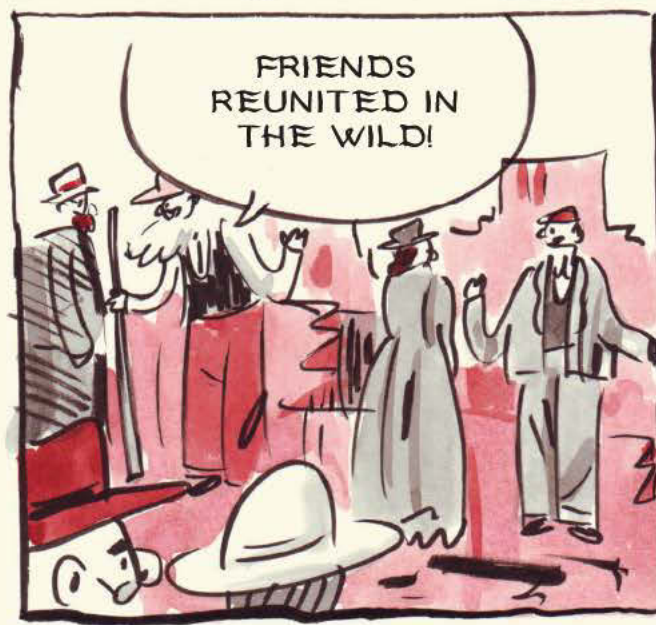
I ALSO HELPED CREATE NATIONAL PARKS IN MANY WONDERFUL WILD PLACES LIKE YOSEMITE



AND THE GRAND CANYON.



FRIENDS REUNITED IN THE WILD!



DO SOMETHING FOR THE WILDERNESS AND MAKE THE MOUNTAINS GLAD!



THEN I MET ANOTHER
PRESIDENT... THE
PRESIDENT OF
THE UNITED
STATES OF
AMERICA.



MY TALKS AND
WRITINGS HAD MADE
ME A FAMOUS MAN.



LET'S GO
CAMPING IN
THE WILD!



YES, PRESIDENT
ROOSEVELT.



BUT MR PRESIDENT,
WE HAVE A GRAND
DINNER READY IN
YOUR HONOUR...

SORRY, TOO BUSY!
TAKE ME TO
YOSEMITE, JOHN.



FOUR DAYS WE
CAMPED IN THE
YOSEMITE. ME,
JOHN MUIR FROM
DUNBAR,



AND PRESIDENT
ROOSEVELT!
WE CLIMBED TO
GLACIER POINT



AND I SHOWED HIM
ALL THE GLORIES
OF MY BELOVED
WILDERNESS.



WE TALKED ABOUT
PROTECTING THE
FORESTS AND
NATURE.



I'LL PRESERVE
148 MILLION ACRES
OF FOREST AND
CREATE MANY NEW
NATIONAL PARKS!



HURRAH! WE
MUSTN'T WASTE
THE WILDERNESS.
IT'S A NECESSITY
~ NOT JUST AS
FOUNTAINS OF
TIMBER, BUT AS
FOUNTAINS OF
LIFE ITSELF.



TREES ARE THE LUNGS OF THE WORLD.
OUR FRIENDS AND PROTECTORS.



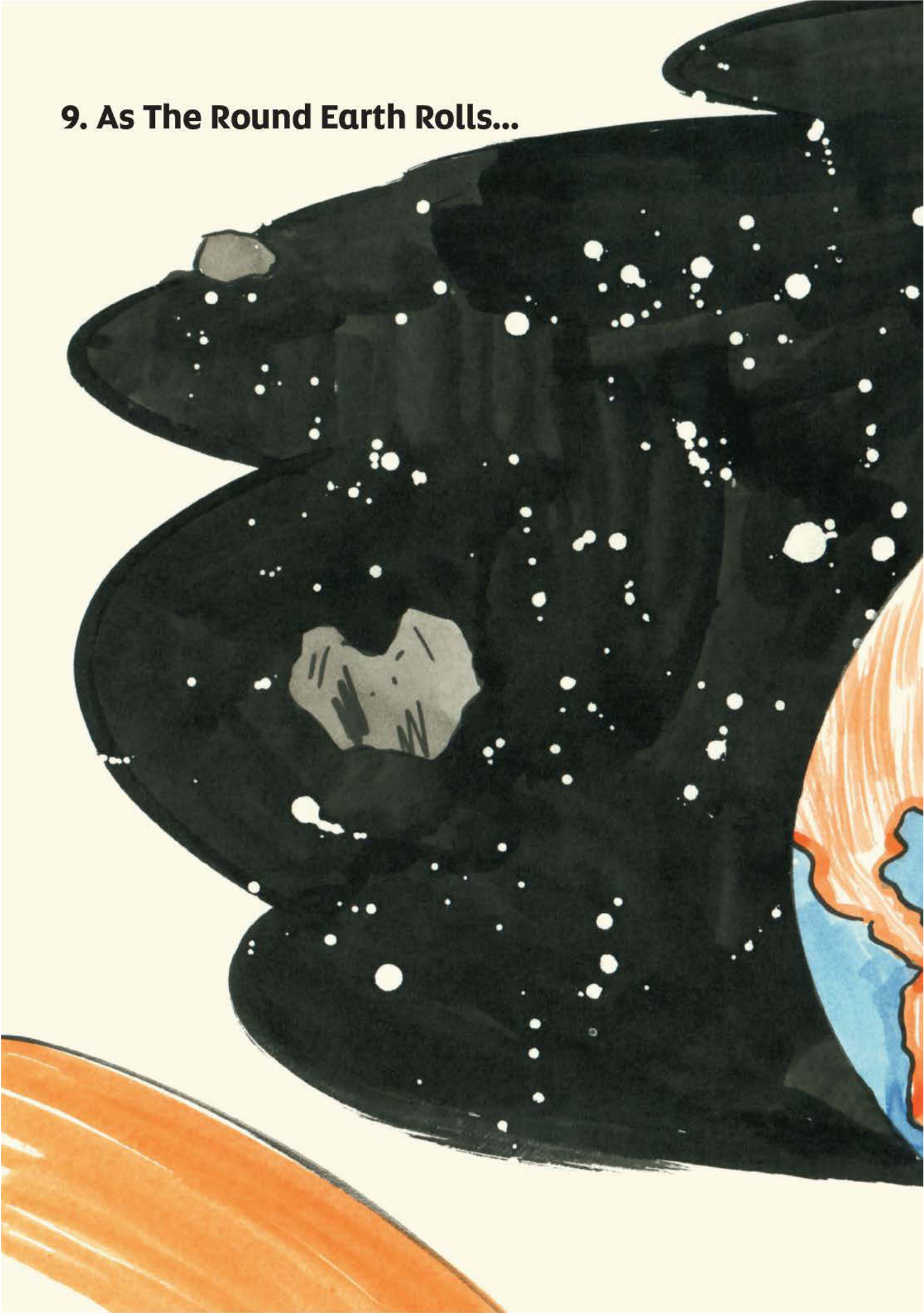
NO MATTER HOW TIMES
CHANGE, WE MUST LOOK
AFTER OUR FORESTS.



IF WE KILL THE TREES,
WHAT WILL HAPPEN TO US?



9. As The Round Earth Rolls...





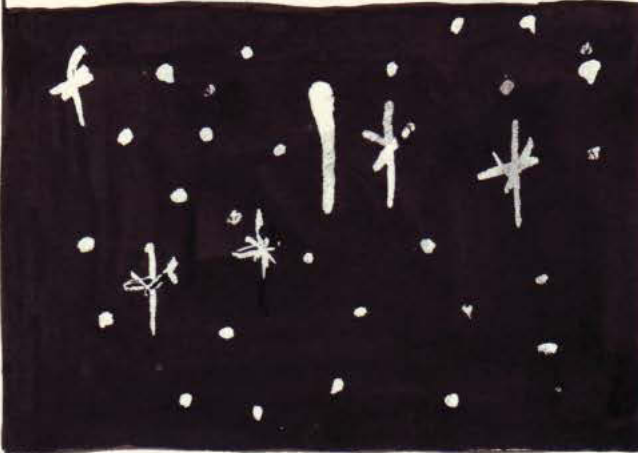
MY LIFE HAS BEEN ONE
BIG ADVENTURE.



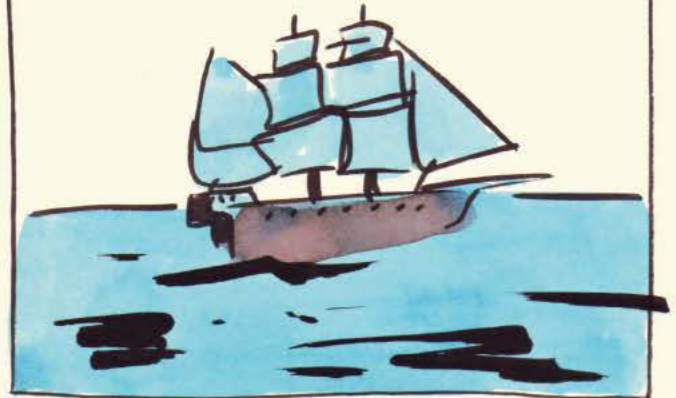
I HAD A DREAM AND I
WORKED AND WORKED AT IT.



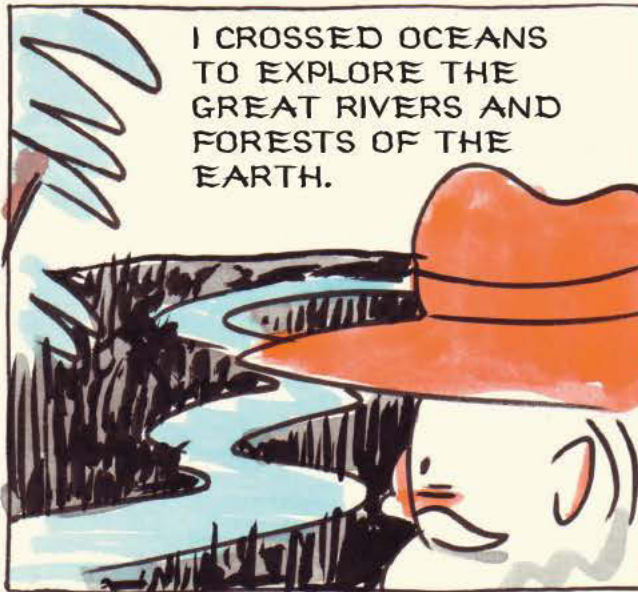
I HITCHED MY WAGON TO
THAT STAR.



AGED 65, I WENT ON A
WORLD TOUR TO EVERY
CONTINENT EXCEPT
ANTARCTICA.



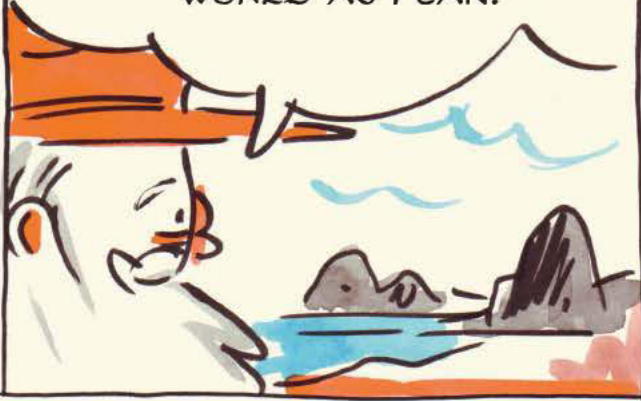
I CROSSED OCEANS
TO EXPLORE THE
GREAT RIVERS AND
FORESTS OF THE
EARTH.



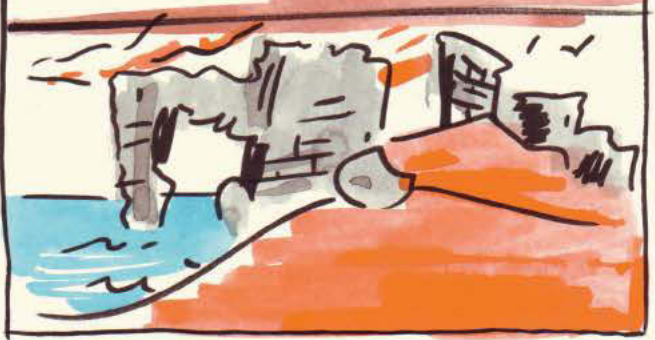
AT 73, I MADE A 40,000
MILE TREK TO SOUTH AMERICA
AND AFRICA.



AS LONG AS I LIVE, I'LL FOLLOW MY INSTINCTS AND GET AS NEAR TO THE HEART OF THE WORLD AS I CAN.



I'D ALSO TRAVELLED BACK TO MY ROOTS, TO DUNBAR WHERE MY LOVE OF ADVENTURE AND CURIOSITY ABOUT THE WORLD BEGAN.



I WAS MUCH CHANGED FROM THE GANGLY BOY WHO'D ONCE CLIMBED THE CRAGS OF THE CASTLE.

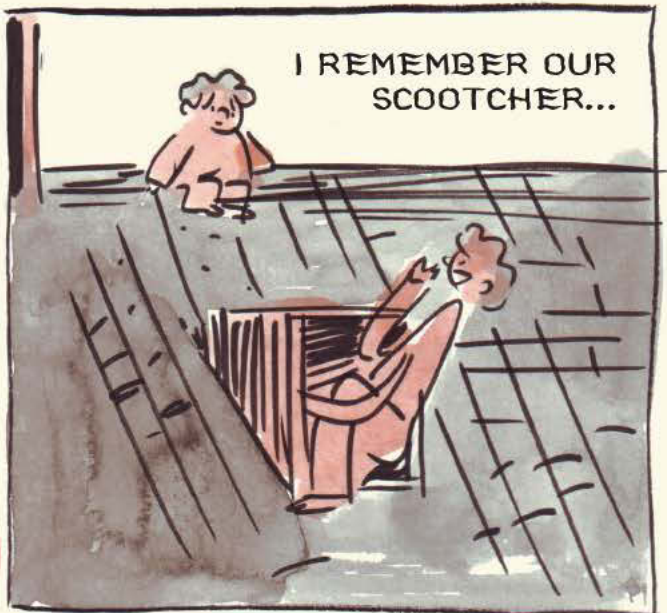


BUT EVERYWHERE I WENT, PEOPLE RUSHED OUT TO GREET ME.



CHILDREN FOLLOWED AS IF I WERE THE PIED PIPER!







WATCH THE PERFECT
FLIGHT OF A BIRD.



FEEL THE LIFE
AROUND YOU AND
INSIDE YOU.



BE JOYFULLY
LOOSE AND
LOST IN THE
WORLD!



EVERYBODY NEEDS
BEAUTY AS WELL
AS BREAD...



AND PLACES
TO PLAY IN!

MY LEGACY
WOULD LIVE ON
LONG AFTER I
WAS GONE.



MY FACE WOULD
BE ON STAMPS
AND COINS.



ALL KINDS OF
THINGS WOULD BE
NAMED AFTER ME -



A TINY
PLANET



AN ALPINE
RABBIT



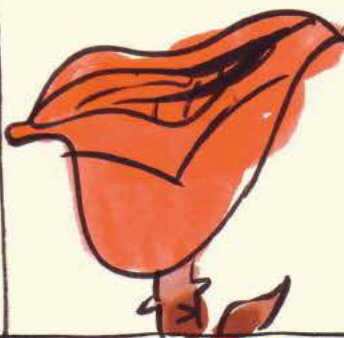
A GLACIER



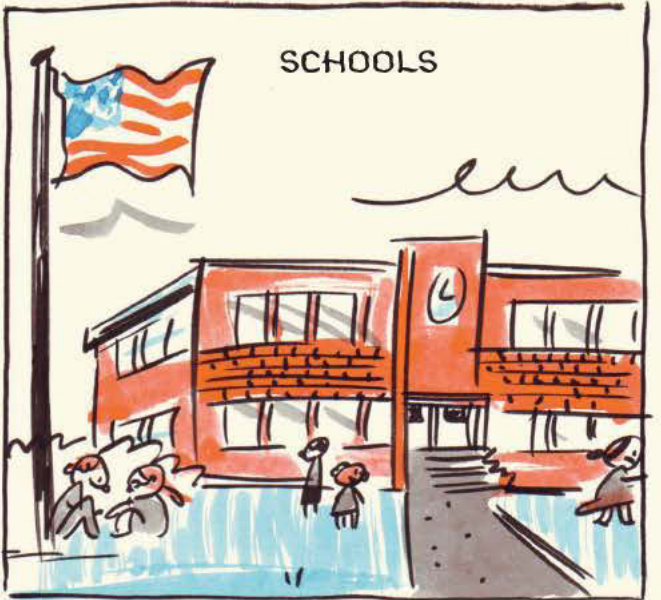
A BUTTERFLY



A ROSE



A BIRD



STILL THE WILDERNESS
CALLS ME, THOUGH I'M TOO
OLD FOR ADVENTURES NOW.



I SIT BY MY FIRE AND SAIL
OUT ON A SEA OF MEMORIES,
RELIVING MY WONDERFUL LIFE.



ONE MEMORY KEEPS
RUSHING BACK



LIKE A WAVE TO
THE SHORE,



CLEARER AND STRONGER
THAN ALL THE REST.



THAT DAY ON THE
ALASKAN GLACIER STILL
ROARS IN MY MIND.



ONCE AGAIN I HEAR THE
WHITE ICE WINDS IN THE
FROZEN MOUNTAINS.



STICKEEN IS AT MY SIDE
AND TOGETHER WE BATTLE
THE STORM-BLAST



TO CROSS THE DEATHLY
CREVASSE.



IT'S ALWAYS SUNRISE
SOMEWHERE.



ETERNAL
SUNRISE,
ETERNAL
DAWN, AS THE
ROUND EARTH
ROLLS...



WHAT I DISCOVERED ON THE GLACIER
HAS STAYED WITH ME ALWAYS.

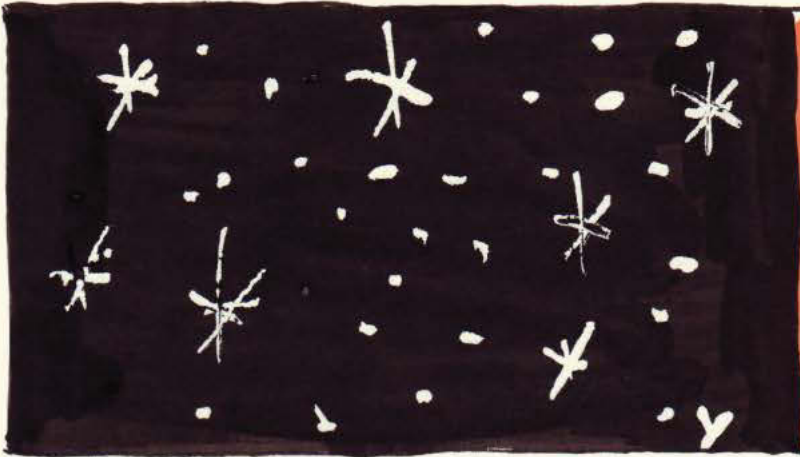


WE ARE PART OF NATURE
AND ITS WILD HEART IS
PART OF US.



THE HUMAN CREATURES
OF THIS PLANET ARE
CONNECTED

TO ALL OUR
EARTH-BORN
COMPANIONS.



AND I SAW HOW A SNOWFLAKE COULD MOVE A MOUNTAIN. IF MILLIONS OF SNOWFLAKES CAN BOND TOGETHER

TO CREATE THE SLOW-MOVING POWER OF A GLACIER ~



STRONG ENOUGH TO MOVE MOUNTAINS

AND CARVE OUT VALLEYS ~



THEN MILLIONS OF SMALL
ACTIONS BY EACH HUMAN
BEING.



ALL THE LITTLE THINGS
WE DO EVERY DAY,



CAN SURELY ADD UP TO
VAST CHANGES OVER TIME.

EITHER TO
DESTROY THIS
MAGNIFICENT
PLANET



OR TO PROTECT OUR
PRECIOUS HOME IN A
VAST UNIVERSE.



TODAY, THE WORLD IS
STILL INSPIRED BY THE
LIFE AND VOICE OF ONE
MAN IN THE WILDERNESS:
A SON OF SCOTLAND, A
PIONEER PLANET-KEEPER
AND THE FIRST MODERN
ENVIRONMENTALIST.
JOHN MUIR CALLS OUT TO US
ALL TO LOOK BEYOND OUR
EVERYDAY LIVES AND ENJOY
THE WONDERS OF NATURE
- TO SEE OURSELVES AS
CITIZENS OF THE UNIVERSE
AND CARE-TAKERS OF
THE EARTH FOR FUTURE
GENERATIONS.

JOHN MUIR,
EARTH - PLANET,
UNIVERSE



The Lungs
of the
World



END

John Muir's Chronology and Legacy

- 1838** April 21: John Muir born in Dunbar, Scotland.
- 1841** Begins school.
- 1849** Immigration to Wisconsin at the age of eleven.
- 1860** Leaves home (22 years of age) to exhibit his inventions at the State Agriculture Fair in Madison, Wisconsin.
- 1861–2** Attends University of Wisconsin.
- 1867** Eye injury; begins 1,000-mile walk to Florida and then to Cuba.
- 1868** Falls in love with the Sierras and Yosemite. After all his travels, John Muir makes Yosemite his home; begins exploration for signs of glaciers.
- 1872** Begins to publish articles in leading magazines and becomes a writer.
- 1874** Begins his tree-saving campaign and puts forward his glaciation theory for the formation of the Yosemite Valley.
- 1879–90** Goes on many expeditions to Alaska.
- 1880** April 14: John marries Louie Wanda Strentzel. They have two daughters and settle at their ranch.
- 1890** Because of his many articles he begins the movement on wilderness conservation; Yosemite is established as a National Park.
- 1892** Helps to create the Sierra Club and is the president until his death.
- 1893** Begins a European trip.
- 1901** The book *Our National Parks* by John Muir is published.

- 1903** July 20: President Roosevelt journeys to visit Yosemite. He spends his time there with John Muir, camping, hiking and riding horseback.
- 1903–5** John's world tour.
- 1907–13** He fights to save Hetch Hetchy Valley; many of John's books are published.
- 1911–12** John goes on trips to South America and Africa (73 years old).
- 1914** December 24: John Muir dies of pneumonia in a Los Angeles hospital.
- 1919** Due to his activism during his life The Grand Canyon National Park is eventually established.
- 1976** John Muir Country Park designated at Dunbar, Scotland.
- 1981** John Muir House, Birthplace Museum opens in Dunbar, Scotland.
- 1983** John Muir Trust is founded in Scotland to conserve wild land.
- 1987** John Muir Trust purchases Li and Coire Dhorrcail in Knoydart.
- 1991** John Muir Trust purchases Torrin, Isle of Skye.
- 1993** John Muir Trust purchases Sandwood Bay, Sutherland.
- 1997** John Muir Award launched by Minister for the Environment.
- 1999** John Muir Trust purchases Schiehallion.
- 2000** John Muir Trust purchases Ben Nevis.

Source: John Muir National Historic Site and John Muir Trust.

The John Muir Quiz

Now you have read this book try the **John Muir quiz**. Photocopy the following pages and then answer the questions. At the end, add up your results to see your similarities to John Muir.

Tick only **one box** next to each question against the suggestion that describes you best.

1. What is/are your favourite thing(s) to do at the weekend?

- a. Take part in arts and crafts / read a book / watch a film or TV show / write creatively / play an instrument or computer game
- b. Be somewhere outdoors
- c. Take photographs, draw, write or film the natural world
- d. Work on an invention or build something
- e. Go somewhere you have never been before
- f. Play sport
- g. None of the above
- h. All of the above

2. If you would like to follow in the footsteps of someone from this list, who would it be?

- a. David Attenborough and/or Ellie Harrison
- b. Banksy and/or J. K. Rowling
- c. Bear Grylls and/or Ellen MacArthur
- d. John Muir
- e. Steve Jobs and/or James Watt

- f. Chris Hoy and/or Jessica Ennis
- g. All of the above
- h. There is no one I admire on this list

3. When going on a trip you are required to take an extra thing with you. What would it be? Choose from the following:

- a. A box of tools
- b. A sketch book / writing journal
- c. A packet of wild flower seeds
- d. A piece of sports gear
- e. A pair of walking boots
- f. A map
- g. None of the above
- h. All of the above

4. If you had to choose only one, which of the following would you prefer to do?

- a. Embark on a walking route you have never been on before and/or camp out overnight
- b. Make something in a workshop surrounded by gadgets
- c. Enter a competition to create something that persuades others to look after nature or take part in a tree planting event
- d. Spend time in a garden/park or sitting under a favourite tree or somewhere looking out to sea
- e. Research ideas for a film and/or write the script or draw the storyboard and/or film a video

- f. Mountain climb or run/cycle along a coastal or inland route or kayak on the sea or river
- g. None of the above
- h. All of the above

5. If you could only do one thing to make a difference to our natural world, what would it be?

- a. Take part in a local park, beach or river litter clean up
- b. Create or adapt your own clothes, in a fashionable way, using recycled materials where possible
- c. Take part in conservation days by helping to collect details about ecosystems in different locations
- d. Set up or take part in an eco-school's committee
- e. Help to create or improve an eco-product (such as a film projector run by 'pedal power')
- f. Join in a sponsored sporting activity to raise money for a wildlife charity
- g. None of the above

6. When John Muir was alive it was believed that as humans we were in control of the natural world. Today, do you think that as humans we are mainly:

- a. Discoverers of the natural world
- b. Protectors of the natural world
- c. Part of the natural world
- d. Just observers who paint, draw, photograph or write about the natural world

- e. In control of the natural world
- f. Just wanting to play in the natural world (e.g. wind surfing or skiing)
- g. None of the above
- h. I think as humans we are all of the above in relation to the natural world today

The John Muir Quiz Results

<p>Question 1 a. = ↔, b. = ↓, c. = ↙, d. = ↑, e. = ↑, f. = ←, g. = ←, h. = ↙.</p>	<p>My symbol for this question was: _____</p>
<p>Question 2 a. = ↓, b. = ↔, c. = ↑, d. = ↙, e. = ↑, f. = ←, g. = ↙, h. = ←.</p>	<p>My symbol for this question was: _____</p>
<p>Question 3 a. = ↑, b. = ↔, c. = ↓, d. = ←, e. = ↓, f. = ↑, g. = ←, h. = ↙.</p>	<p>My symbol for this question was: _____</p>
<p>Question 4 a. = ↑, b. = ↑, c. = ↙, d. = ↓, e. = ↔, f. = ←, g. = ←, h. = ↙.</p>	<p>My symbol for this question was: _____</p>
<p>Question 5 a. = ↓, b. = ↔, c. = ↑, d. = ↙, e. = ↑, f. = ←, g. = ←.</p>	<p>My symbol for this question was: _____</p>
<p>Question 6 a. = ↑, b. = ↙, c. = ↓, d. = ↔, e. = ↑, f. = ←, g. = ←, h. = ↙.</p>	<p>My symbol for this question was: _____</p>
<p>Results</p>	<p>_____ was the symbol I got the most of.</p>



Your results show that you had mostly this symbol ↔ and this suggests **you like to be creative** like John Muir – he liked to write in his journal and record, through words and illustrations, the creatures, flowers and trees. If he were alive today he would no doubt get involved in taking photographs, creating music or filming scenes of the world around us, reading books and/or finding out things by using the computer – spending time indoors as well as outside. Does this sound like you?



Your results show that you had mostly this symbol † and this suggests **you like to invent things** like John Muir – he spent time creating inventions to help others. If he were alive today he would probably participate in creative workshops or get involved in scientific experiments or explore how to live in a more sustainable way. Does this sound like you?



Your results show that you had mostly this symbol ← and this suggests **you are quite sporty and you like to be active outdoors** doing things such as hiking, climbing mountains or trees like John Muir – he really enjoyed being out and about in the wilderness. If he were alive today, as well as hiking, he might well take part in activities such as kayaking, cycling, running or rock climbing too. Does this sound like you?



Your results show that you had mostly this symbol † and this suggests **you like to explore, you are a bit of an adventurer** and so was John Muir – he liked to go on expeditions immersing himself in the outdoors, exploring, camping, climbing mountains or trees and setting off along hiking trails as well as overseas travels. If he were alive today he would perhaps join in with wildlife exploration and conservation activity holidays too. Does all this sound like you?



Your results show that you had mostly this symbol ‡ and this suggests **you like to spend time outdoors** like John Muir – he really enjoyed being out and about in the natural world – in gardens, parks, farmland or hills and mountains, river or glacial valleys, woodlands or by the coast. He liked to enjoy the peace that being surrounded by nature gave him. Does this sound like you?



Your results show that you had mostly this symbol ↵ and this suggests **you are a polymath** like John Muir. A polymath is someone who is a little bit of everything! A creative, exploring, outdoor inventor who is concerned about looking out for nature and inspiring others to love and care for our natural environment, is this you too?

Your results show that you had mostly this symbol ↶ and this suggests that you do **not have many similarities to John Muir.**

Pupil's Survey

Date you did the quiz:

Your school year:

Your score on the quiz:

Now I have read about John Muir, the activities I would like to get more/even more involved with are ones where I am:

- Inventing things
- Exploring things
- Discovering nature
- Looking out for nature
- Going on walks or joining in activities that take me into natural landscapes
- Finding out more about the environment and what I can do to help
- Sharing my discoveries through:
 - Writing
 - Art
 - Photography
 - Using technology (for example to create videos)

Thank you!

If you are the **class teacher**, please send us the results of this survey by one of three ways:

1. Collate your pupils' results and enter the summary in our online survey: <https://www.surveymonkey.com/s/JMuir>

2. Collate your pupils' results below and send them to:

John Muir Project,
Scottish Book Trust,
Freepost NAT5876,
Edinburgh EH1 0BR

3. Collect all your pupils' surveys and send them to:

John Muir Project,
Scottish Book Trust,
Freepost NAT5876,
Edinburgh EH1 0BR

Pupils' results summary

Date your class did the quiz:

School name:

School postcode:

Average age of pupils taking part:

Looking at the results from the quiz, please let us know the number of pupils who were similar to John Muir in relation to:

- Creativity:
- Inventions:
- Enjoying the peace of the outdoors:
- Exploration, travel and adventures:

- Outdoor sporting activities:
- Were polymaths like John Muir:
- Pupils had no similarities to John Muir:

Please let us know the number of pupils who said they would like to get more involved in the following activities now that they have read about John Muir:

- Inventing things:
- Exploring things:
- Discovering nature:
- Looking out for nature:
- Going on walks or joining in activities that take them into natural landscapes:
- Finding out more about the environment and what they can do to help:
- Sharing their discoveries through:
 - Writing:
 - Photography:
 - Art:
 - Using technology:

Thank you!

Glossary

A – anemometer	a device used for measuring wind speed
avalanche	large amounts of snow and ice which become dislodged, and fall rapidly down a mountainside
B – bairn (Scots)	child or baby. (<i>Bairn</i> is used in the north and east of Scotland, <i>wean</i> is used in the south and west)
bobolink	a bird, from the same family as the blackbird, that lives in South America. Bobolinks have white or yellow feathers on their heads
C – chasm	a deep, steep-sided opening in the earth's surface
chickadee	a small songbird, from the same family as a sparrow or bluetit, that lives in North America and Canada
continent	a huge, continuous expanse of land, which can contain many countries. The world's continents are Europe, Asia, Africa, North America, South America, Australia and Antarctica
crevasse	a deep, open crack, usually in a glacier
D – destruction	damage to an object, building or place that cannot be repaired

G – gangly (Scots)	tall, thin and not very graceful
gannet	a large sea bird, a bit like a gull. Gannets are black and white and live near coasts in many parts of the world, especially in the UK
genius	an exceptionally intelligent person, or someone with an exceptional skill
glacier	a huge mass of ice, made from layers and layers of compacted snow. Glaciers form on land and move very, very slowly over it
glaukit (Scots)	stupid, foolish or absent-minded
greet (Scots)	‘greeting’ is a Scots word for crying or weeping
I – inlet	a narrow passage of water connecting the sea to the land
K – kin	family
L – legacy	what a person leaves behind after they die: what others remember about them
M – malinky (Scots)	person or body
N – nuthatch	a small bird, often brightly coloured, who lives in woodland. Nuthatches are mostly found in North America and Asia
P – perilous	dangerous or risky

R – rascal	an affectionate term for a mischievous or cheeky person
S – scootchers	John Muir's made-up word for adventures or game of 'dares'
scurvy	scurvy is a rare disease that results from not getting enough vitamin C. Once upon a time it was common in sailors. 'Scurvy dogs' is a sea-faring term for sailors who are considered bad, dirty or diseased
skylark	a small brown and white songbird with a crest on its head. Skylarks live mainly in Europe, Asia and North Africa

California, Florida, Grand Canyon, Indiana, Sierra Nevada Mountains, San Francisco, Savannah, Tennessee, Wisconsin and Yosemite are all places in America.

Author's and Illustrator's Biographies

Julie Bertagna

Julie Bertagna has written many acclaimed books and short stories for children and young adults and has been published in over 20 countries around the world. Her award-winning EXODUS trilogy ('brilliantly imagined stories of love and survival, set in a frighteningly realistic future') also won a Friends of the Earth Eco Prize for Creativity and a Santa Monica Green Prize for Literature. Five of her young adult novels have been nominated for the prestigious Carnegie Prize and other major shortlists, such as the Whitbread Children's Book of the Year and the Booktrust Teenage Prize. Scottish awards include the Children's Book of the Year and the Catalyst Book Prize. A book for younger readers, *The Ice Cream Machine*, was made into a TV series for Channel Five, with a version by the Gaelic Broadcasting Committee.

Julie is currently travelling through space and time on a new writing adventure in a future world, while being Mentor for Scottish Book Trust's Young Writer Awards.

Find out more on Julie's website www.julie.bertagna.com plus Earthspace (her environmental resource blog), Twitter, Pinterest and Facebook.

William Goldsmith

William Goldsmith is an illustrator based in Glasgow. He is currently working on his second graphic novel, to be published by Jonathan Cape & Random House in 2015. His first graphic novel published by Jonathan Cape & Random House, *Vignettes of Ystov*, concerns the interlocking lives of the inhabitants of 'Ystov' – an Eastern European city of the imagination.

Reviews of *Vignettes of Ystov* appeared in *The Times*, *Time Out*, and *Guardian* online among others, and it was nominated for a Newton First Book Award at Edinburgh International Book Festival.

To find out more about William and to see a vast array of his other pieces of art work and publications go to his website www.williamgoldsmith.co.uk.

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www.scottishbooktrust.com/johnmuir

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Useful Websites

Activities and ideas to use with this book:

www.scottishbooktrust.com/johnmuir teaching support notes and pupil activities that link to the symbols 'jump off points' found through out this book

Blacklemag: www.blacklemag.com an up-to-the-minute source on sustainable design and technology

British Geological Survey/Discovering Geology:

www.bgs.ac.uk/DiscoveringGeology includes information and resources for schools

Discover John Muir: www.discoverjohnmuir.com includes information, activities and events, hosted by the John Muir Trust

EcoSchools: www.ecoschoolsscotland.org provides guidance for whole-school action on sustainable development

Education Scotland: www.educationscotland.gov.uk/studyingScotland includes resources to support teaching about Scotland's past, people and environment

Forest Education Initiative: www.foresteducation.org includes links to Forest Schools

Grounds for Learning Scotland: www.ltl.org.uk/scotland includes approaches to support school provision for outdoor learning and play

John Muir Birthplace Trust: www.jmbt.org.uk an interpretative visitor centre focused on John Muir's work

John Muir Award: www.johnmuiraward.org the engagement initiative of the John Muir Trust

John Muir Trust: www.johnmuirtrust.org includes links to the curriculum and Mission:Explore John Muir

John Muir Way: www.johnmuirway.org includes route description, maps, places to visit en route, images as well as accommodation and facilities

Paths For All: www.pathsforall.org.uk/pfa/health-walks/youngpeople.html includes case studies of walking projects with Scottish schools

Scottish Canals: www.scottishcanals.co.uk includes educational resources

Scottish Natural Heritage: www.snh.gov.uk/johnmuir includes links to the John Muir Way

Scottish Wild Life Trust: www.scottishwildlifetrust.com includes education resources to learn about and enjoy wildlife

The Forestry Commission Scotland: www.forestry.gov.uk/scotland includes links to woodlands for learning

The Ramblers: www.ramblers.org.uk includes details of places to walk in Scotland

The Royal Society for the Protection of Birds: www.rspb.org.uk/scotland includes links to wildlife explorer clubs as well as educational resources

The Wild Network: www.projectwildthing.com

The Woodland Trust: www.british-trees.com

The Woodland Trust: www.woodlandtrust.org.uk/learn includes links to Nature Detective activities

Visit Scotland:

www.visitscotland.com/about/nature-geography/national-parks/john-muir includes details about Scotland's National Parks and their links to John Muir

WWF Scotland: <http://scotland.wwf.org.uk/> provides background information in relation to an organisation that campaigns on behalf of wildlife both in Scotland and further afield

Young Scot: www.youngscot.org/info/2292-what-if-john-muir-had-facebook

How did a boy from Scotland grow up to be called the 'Greatest Californian'?

Why did he become so famous that a planet, a glacier, mountains, woods, parks, trails and many other things – even a millipede – are named after him?

In words and pictures, this graphic novel tells the amazing story of John Muir and takes you on the adventure of his life: from his boyhood in Dunbar, across the ocean to a thrilling new start in America, where he became an inventor, a global explorer and the first modern environmentalist – even best friends with a president!

Follow his adventures across the globe and see how he fought to preserve the wild wonders of nature for all of us to live in, and enjoy, today.



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