

# Chasing Sounds Under Antarctic Plains

an adventure and activity book  
written and illustrated by Theresa Stacy-Ryan

## The Chase Series

There are ten books in the Chase Series  
based on the characters found in the fun adventure,  
“Chasing the Moon and the Morning Star.”

Chasing Sounds Under Antarctic Plains is based on Location One.

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tmsr Design Delivery, LLC *dba* the Little Lion Lighthouse.  
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## Dedication

To Renee and Jovie who cared enough to name  
our main characters and embrace them fully.

It is also dedicated to those who find joy in the simple things of Life.

## Acknowledgments

This book was another collaborative effort with many in my Circle:  
Antoinette, Mary, Tess, Renée, Leslie, Robin, Ava, Naymar, Finn,  
Kathy, Elizabeth, Donovan, Jovie, and Emmett.

## This book belongs to

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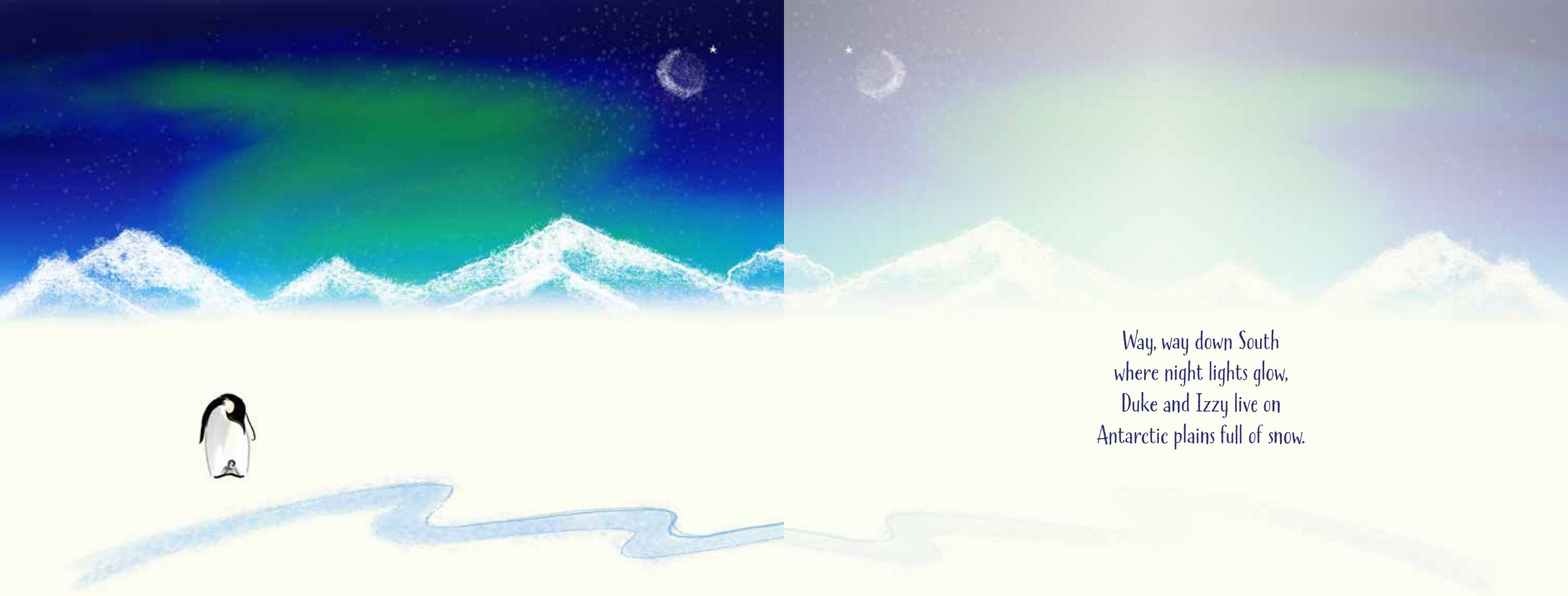
Be ready as we adventure with Izzy and Penni under the Antarctic ice!

## Supplemental Materials

Watch the video that inspired this story and print your own activities  
for Chasing Sounds Under Antarctic Plains at  
[littlelionlighthouse.com/csuap](http://littlelionlighthouse.com/csuap)

[term] are terms and explanations that might be of interest to you, the reader,  
that you can share about the scene with your listener.

NOTE: References are included online at [littlelionlighthouse.com/csuap](http://littlelionlighthouse.com/csuap).



Way, way down South  
where night lights glow,  
Duke and Izzy live on  
Antarctic plains full of snow.



**Antarctic plains** Antarctica, the southernmost continent and site of the South Pole, is a virtually uninhabited, ice-covered landmass. The peninsula's isolated terrain also shelters rich wildlife, including many penguins. Area: 5.5 million mi<sup>2</sup> | Population: 1,000 to 5,000 (seasonal) –Google

**Did you know?** Antarctica's meaning... (adj.) late 14 century., *antartyk* "opposite to the north pole" (adj.), also (with capital A-) "region around the South pole" (n.), from Medieval Latin *antarcticus*, from Greek *antarktikos* "opposite the north," from anti- "opposite" (see anti-) + *arktikos* "arctic".



As Izzy grew older,  
he made a new friend.  
Her name is Penni.  
Their fun never ends!



**Emperor Penguins** are the tallest and heaviest of all living penguin species and are native to Antarctica, their only home. They can live 15–20 years in the wild. They can dive deeper than any other bird, including other penguins. Emperor penguins do not build nests. Like other penguins, emperors leap into the air while swimming, which is called 'porpoising.' They are considered a near-threatened species. Scientific name: *Aptenodytes forsteri* –Wikipedia The males keep the eggs and new babies warm while the females hunt for food to bring back to the newborn.



One day as they played,  
they found a big hole.  
Through the Antarctic ice,  
they saw life down below.

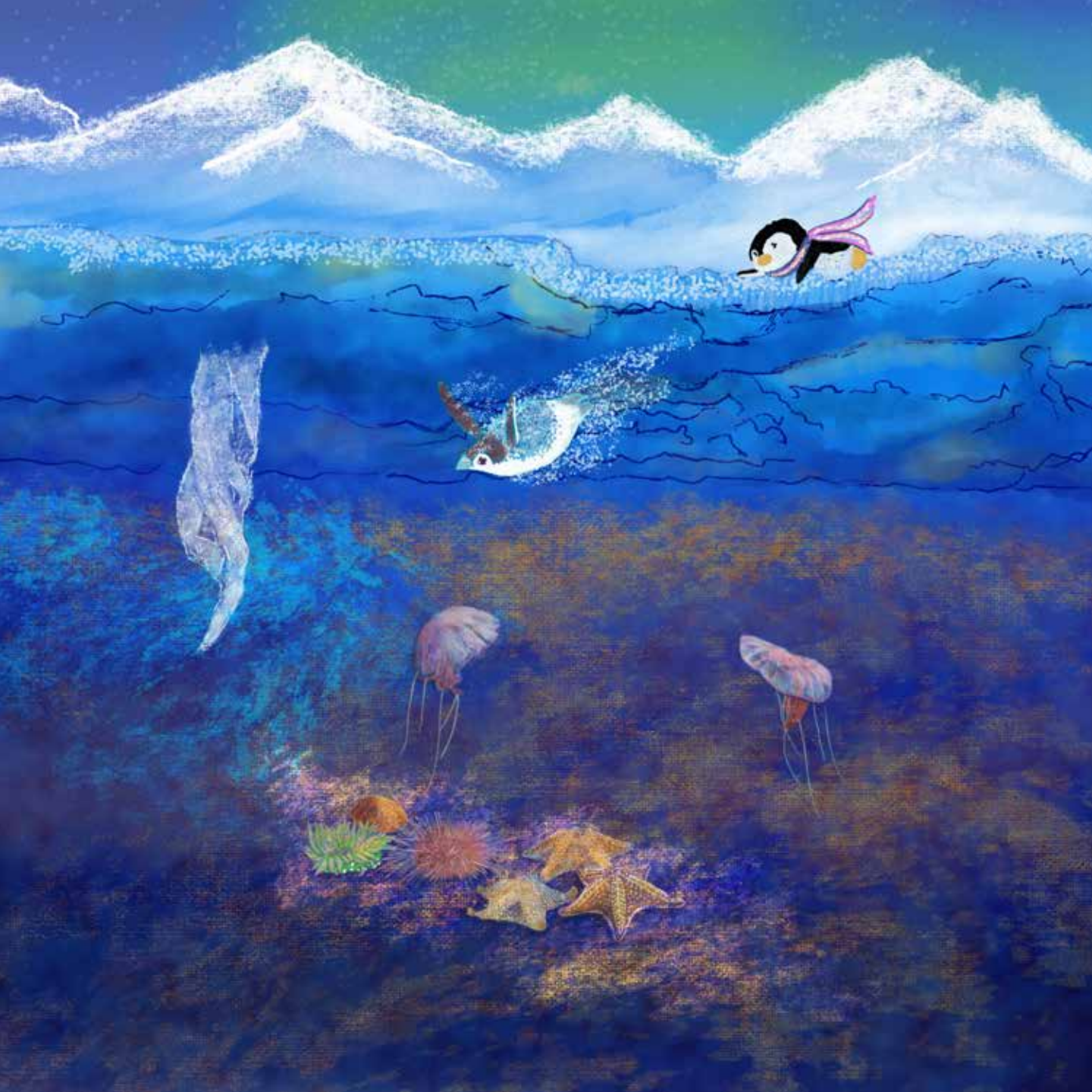






But what was surprising  
were several strange sounds.  
Calls for help from down under  
the plains where they found...





...creatures who needed them.

No time to delay!

Izzy takes to the water,

and, to his dismay,

he sees they're in danger

from a brinicle's salt.

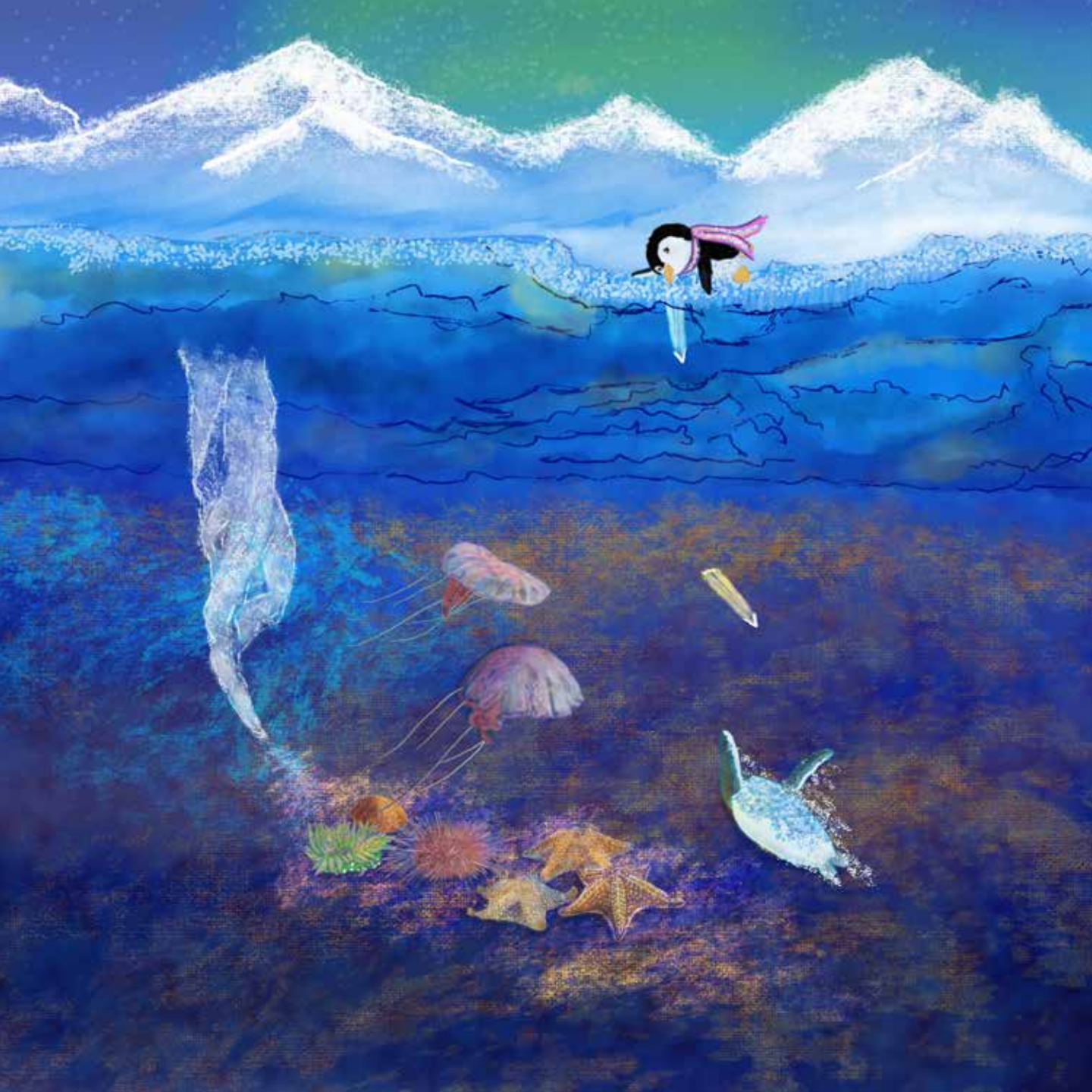
It could make them quite sick

and it simply won't halt!



**Brinicle** When salt-rich water leaks out of sea ice, it sinks into the sea and can occasionally create an eerie finger of ice called a brinicle. ...Since the concentration of water in the brine is lower than that in the ocean – and water moves from high to low concentrations, via osmosis – water is attracted to the brine. –*Scientific American*, 2013  
BBC's "Filming Antarctica's Underwater Secret" captures the brinicle in time lapse.  
<https://youtu.be/BtQhb8sWJNw?t=509> *Totally worth typing this address in!*





Izzy learns what is needed  
watching jellyfish stay  
far from the danger.  
Swimming keeps them away.

"Penni, ice floats. Break off chips.  
Let them fall.  
I'll use them to save  
our new friends who have called."



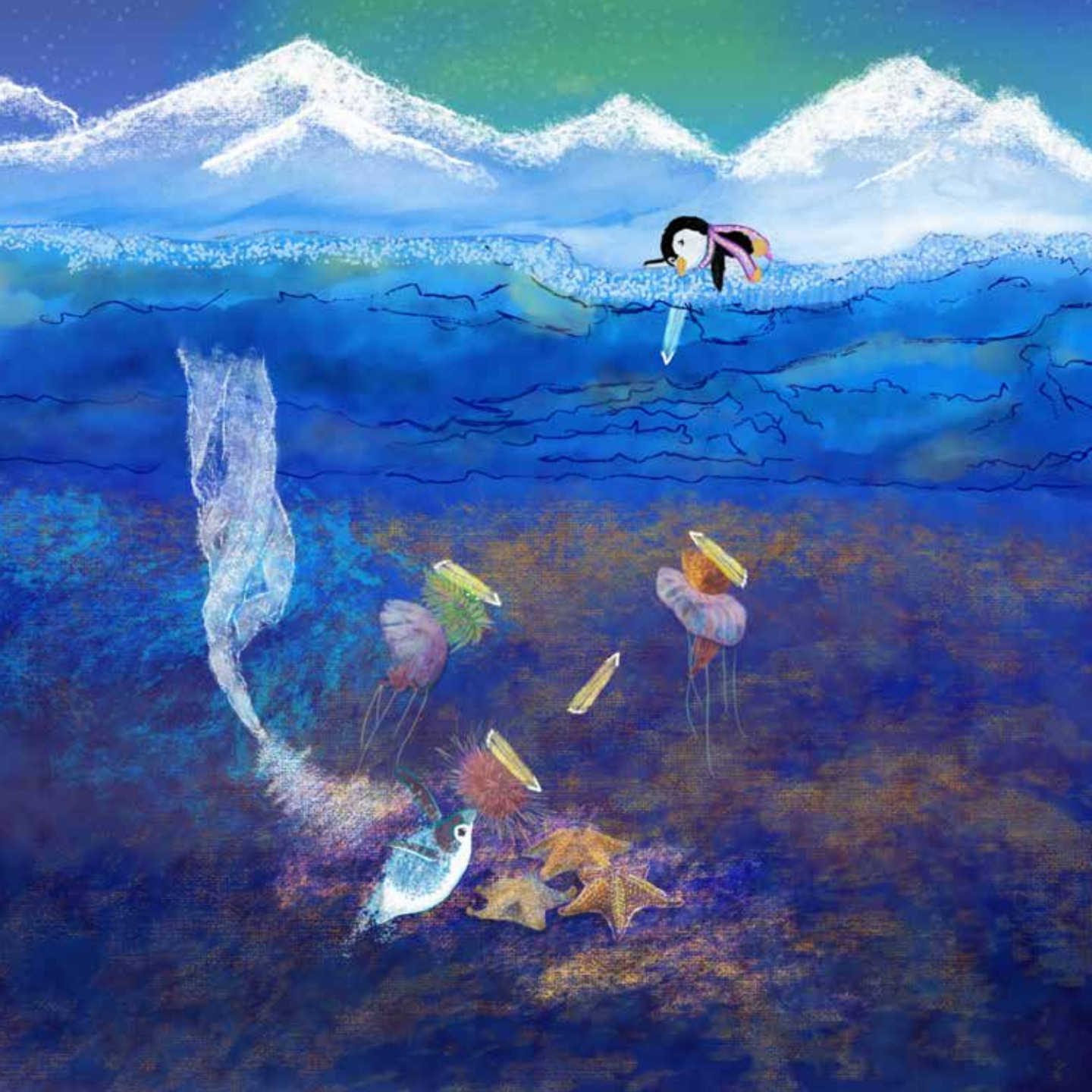
Jellyfish are mainly free-swimming marine animals with umbrella-shaped bells and trailing tentacles... The bell can pulsate to provide propulsion for highly efficient locomotion. –Wikipedia





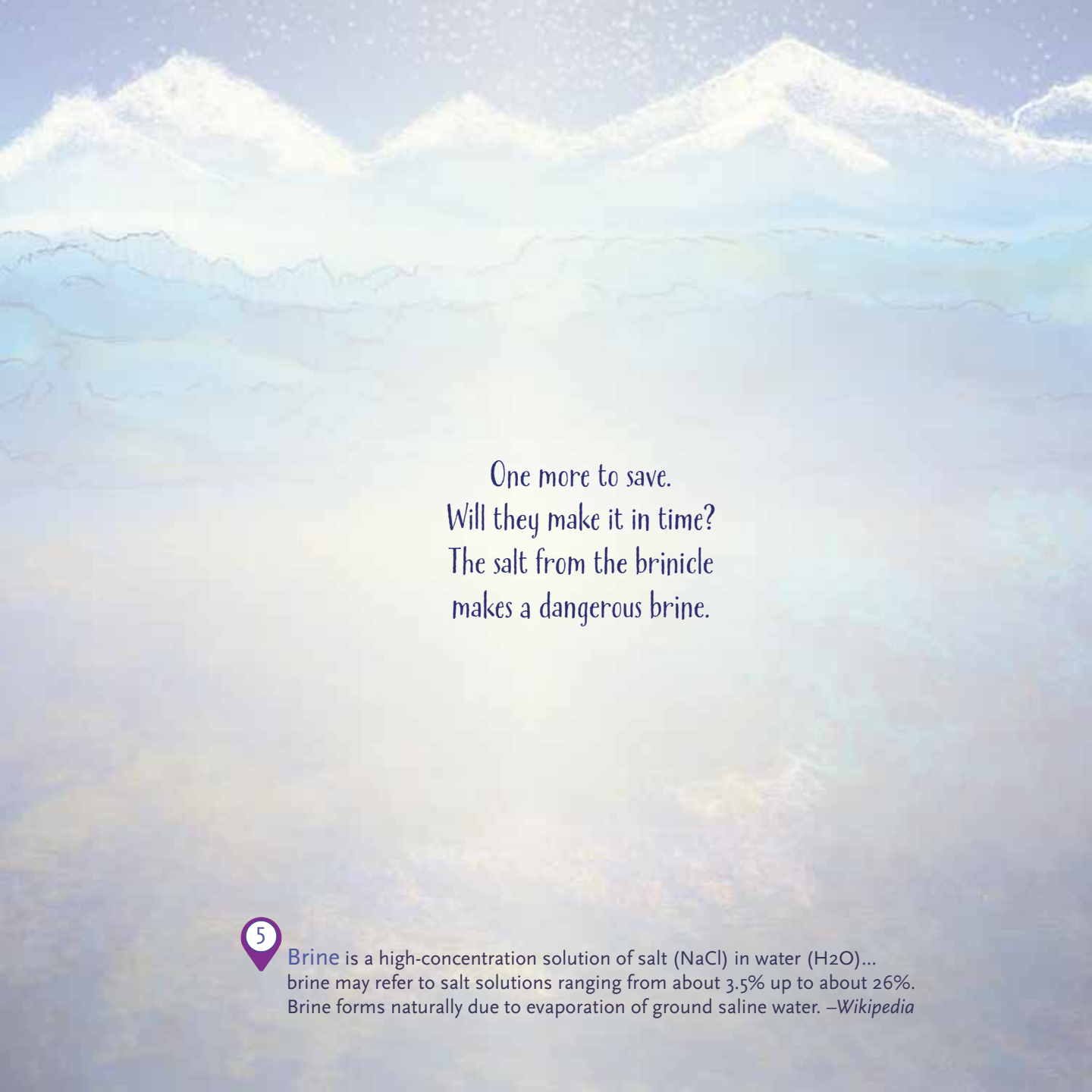
Izzy helps each creature  
hold on to the ice.  
They move past the  
brinicle – clever device!





The jellyfish help.  
Izzy shows them the way.  
"Away from the brinicle!"  
They help save the day.



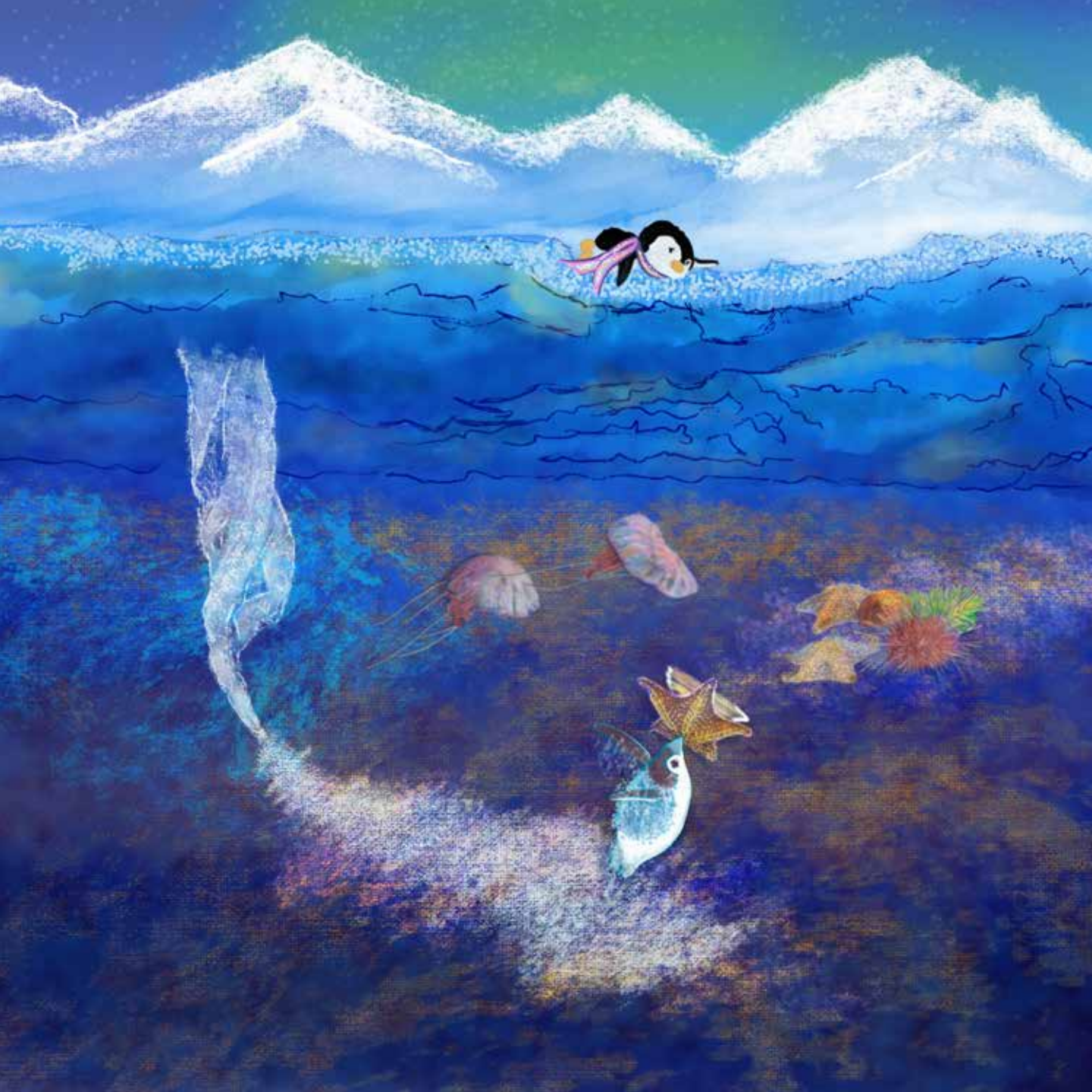


One more to save.  
Will they make it in time?  
The salt from the brinicle  
makes a dangerous brine.

5

Brine is a high-concentration solution of salt ( $\text{NaCl}$ ) in water ( $\text{H}_2\text{O}$ )... brine may refer to salt solutions ranging from about 3.5% up to about 26%. Brine forms naturally due to evaporation of ground saline water. —Wikipedia





Yes! They do make it.  
Not a minute to spare.  
They've carried them far.  
What a burden they shared.







Their teamwork paid off  
as the brinicle grew.  
They all worked together.  
Made it happen, so true.



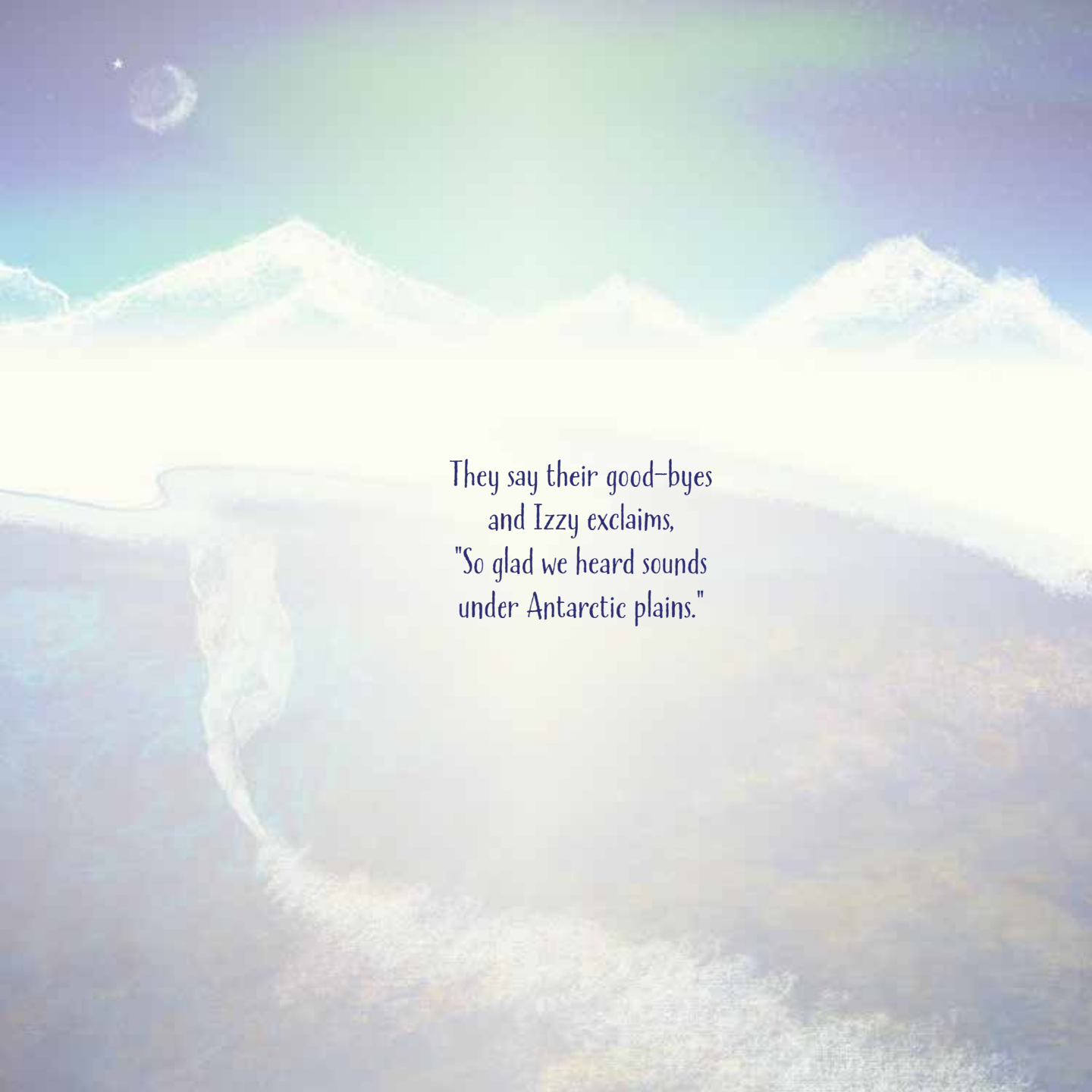
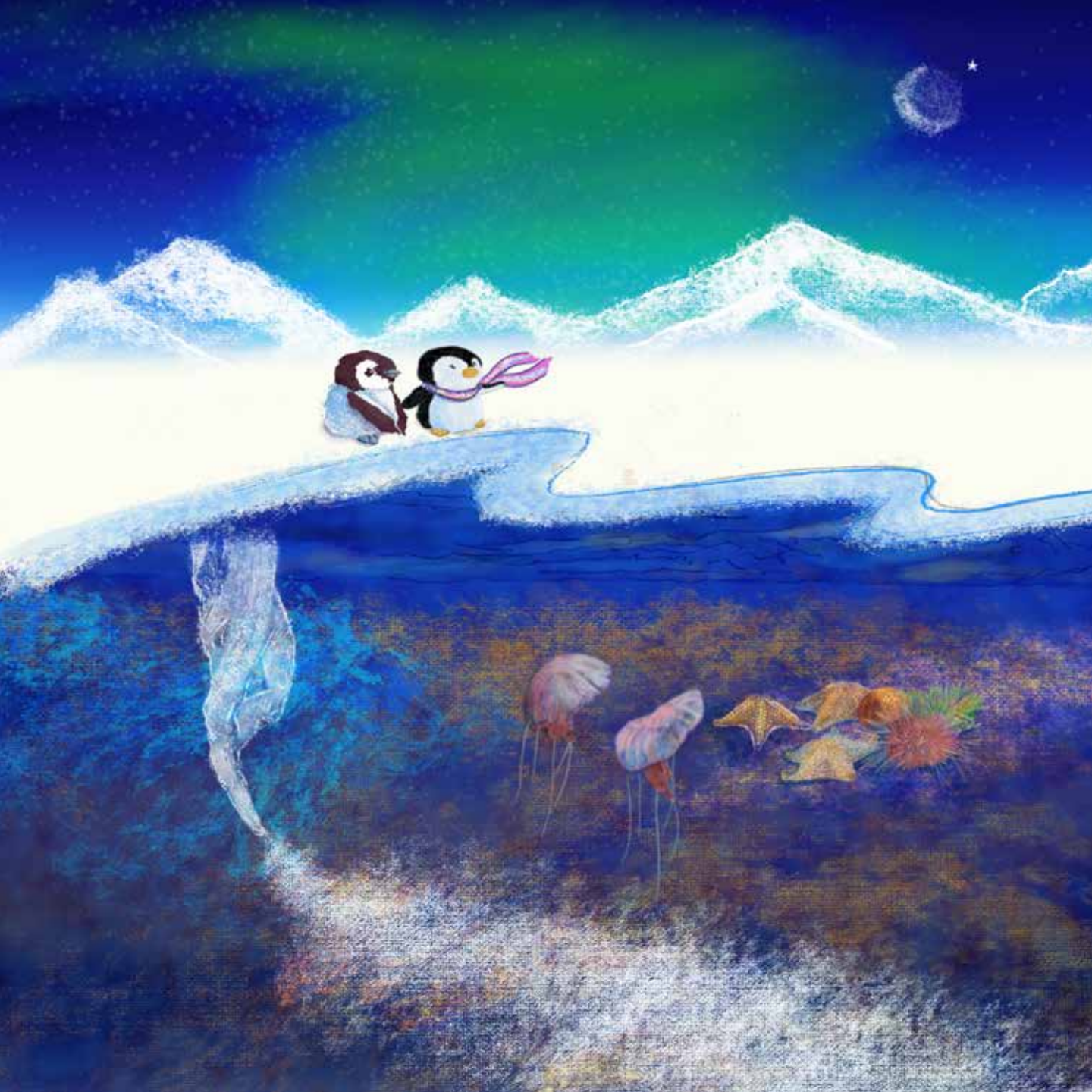




Izzy joins Penni.  
The brinicle moves on.  
Their rescue is over.  
The danger now gone.







They say their good-byes  
and Izzy exclaims,  
"So glad we heard sounds  
under Antarctic plains."



Help Izzy & Penni find the colored tent!



Which cute Emperor penguin  
is Izzy? Which is Penni?



.....

Match the creatures to their names.



- sand dollar
- sea urchin
- jellyfish
- anemone
- sea star



Join us on our next Chase

Come with Rudy, Kathryn & Juliana on jungle-crazy adventures in  
“Chasing the Clever Lizard's Tail.”

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*More Chases-in-the-Making:*

Chasing Long Necks across the Savanna  
Chasing the Ebb and Flow of the Tide  
Chasing the Magic of Andean Skies

The Chase Series is a  
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LITTLE LION LIGHTHOUSE 

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