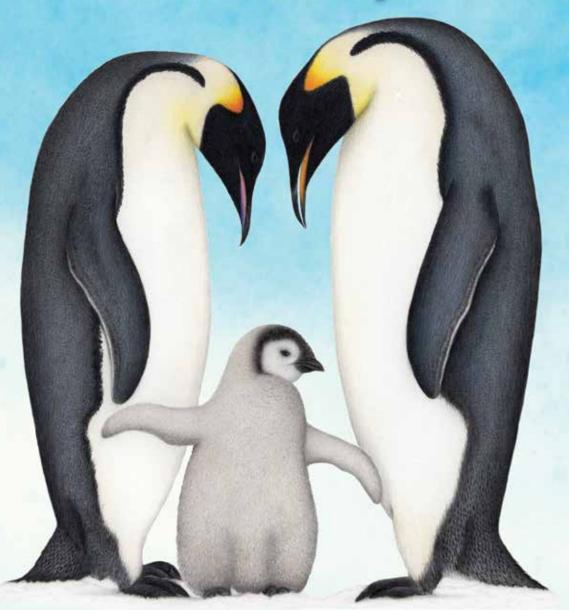
# MADDLEWADDLE

How to Play









In Waddle Waddle<sup>TM</sup>, you play the role of a **Penguin Hero**, specializing in a particular **Penguin Species**. Your job is to study these amazing penguins as they cross the treacherous seas and travel to their nesting grounds, called **Rookeries**.

There's safety in numbers, so penguins travel in groups called Waddles. You will identify and tag Waddles and score Conservation Points for each Waddle you tag.

When Waddles contain Mating Pairs they make Nests that you will tag. The players who tag the most Nests in each Rookery will score extra at the end of each Breeding Season. You'll also get special bonuses when you tag the Nests of the Penguin Species that your Penguin Hero specializes in!

Each Penguin Card has a number indicating its pecking order in the penguin social hierarchy. Only compatible penguins will make Waddles.

There are six different **Penguin Species** that each like to nest in different places. You'll need to carefully choose the **Penguin Cards** from the **Ice Floe** to score the most

Food is scarce! There is a limited fish supply at each Rookery. It costs one fish to play each Waddle. You might need to send penguins on a Fishing Trip to find more fish. And finally, beware of Threats that appear each Breeding Season ("Season") and make it harder for Waddles to land at each Rookery.

The player who earns the most wins the coveted title of **Top Conservator!** 

#### **BEFORE YOU START**

Waddle Waddle has three game speeds so you can choose the length of game that fits into your play schedule. Setup is the same for each **Game Speed**.

#### **QUICK (30-45 MINUTES)**

A Quick Game takes place over just one Season. A Quick Game is a great choice for your first time playing Waddle Waddle.

#### STANDARD (60 - 90 MINUTES)

A Standard Game takes place over two Seasons. After the first Season, follow the instructions to reset the game for the second Season.

#### **EPIC (90 - 120 MINUTES)**

For the ultimate challenge, an *Epic Game* takes place over three *Seasons*.

No matter how many Seasons you play, after the final Season ends, the player(s) with the most is crowned Top Conservator!

Most games will take 30 to 40 minutes per Season.

#### SCAN FOR BIGGER PRINT

Too much small text? Scan the QR code for a PDF version of this rulebook that you can view on your device.



#### **GAME COMPONENTS**

## **72** Penguin Cards



#### 5 Fish **Supply Tokens**



# **5** Conservation



#### **Game Board**



6 Penguin Hero Cards



**Points Tokens** 



**6 Score Tokens** 





6 Frozen Cards



**Threat Cards** 



24 Fish Tokens







And **7**Threat Tokens















150 Nests



9 Season Events





#### SETTING UP THE GAME

Before you start setting up, choose a **Game Speed**: **Quick, Standard** or **Epic**.

#### **CHOOSE A FIRST PLAYER**

The *First Player* is the player who most recently saw a live penguin in person. If there's a tie or no-one in the group has ever seen a live penguin, then players vote on which person most closely resembles a penguin. (Or use an app or roll dice. It's just a game.)

#### **BUILD THE SEASON EVENT DECK**

Each Season Event Card corresponds to Season 1, 2 or 3. Randomly choose one Season Event Card to correspond with each Season in the Game Speed you chose and form a face down pile next to the Game Board, in Season order.

#### **CHOOSE PENGUIN HEROES**

Starting with the *First Player*, and continuing clockwise, each player chooses one *Penguin Hero Card*. Each *Penguin Hero* provides a special ability when you play *Waddles* with penguins of their specialty. (For details of each *Penguin Hero* see *Penguin Hero* bios starting on page 14).

#### **CHOOSE NESTS**

Each player takes all of the Nests of the color corresponding to their hero and places one Nest on the Score Track.

Each Nest color has a different symbol printed on it. There is no gameplay use for these symbols. Nests are marked this way so that color-blind individuals are able to distingiush between the different Nest colors.

#### THE PENGUIN DECK

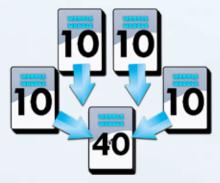
At the beginning of each Season, you will need to prepare the **Penguin Deck**.

First, gather all 72 Penguin Cards and shuffle them. Then deal 4 stacks of 9 Penguin Cards, face down. Place a random Threat Card face down on top of each pile. Set aside the unused Threat Cards for the next Season.

It's optional but, we recommend not using the **Snowy Sheathbill** and **Oil Spill Threat Cards** in the first **Season** of your game.



Shuffle each pile, then STACK the piles to form the bottom half of the *Penguin Deck*.



Stack the remaining *Penguin Cards* on top the *Penguin Deck*, so the *Threat Cards* end up in the bottom part of the *Penguin Deck*.

#### **STARTING A SEASON**

At the start of each Season:

- Prepare the *Penguin Deck*. Place it above the GameBoard. This is the start of the *Ice Floe*.
- 2. Deal two Penguin Cards to each Player.
- Turn over two Penguin Cards in the Ice Floe for each Player.
- 4. In Season One, shuffle the Conservation Points Tokens, place one token in the marked area in each Rookery, then flip over the Tokens. For later Seasons, see Drafting Tokens on page 10.
- 5. Shuffle the Fish Supply Tokens, place one token in each Rookery, then flip over the Tokens. Place the indicated number of Fish in each Rookery. For later Seasons, see Drafting Tokens on page 10.
- Reveal the Season Event Card and follow its instructions.
- 7. Starting with the First Player, begin playing your first Season! Each Season of the game consists of several Rounds. Each Round consists of each Player taking one Turn.

#### STARTING A TURN

At the start of each player's *Turn*, first refill the *Ice Floe*. The *Ice Floe* gets refilled if it has fewer face up *Penguin Cards* than there are players in the game. Refill the *Ice Floe* by drawing and revealing one *Penguin Card* at a time until there is one face up *Penguin Card* for each player.

If you reveal a *Threat*, STOP immediately and proceed to the *Playing a Threat* step.

#### **PLAYING A THREAT**

When you draw or reveal a *Threat Card*, the active player finds the matching *Threat Token* and places it in a *Rookery* that has an empty *Threat Space*. The *Threat Token* will stay there until the end of the *Season*. Some *Threat Cards* have placement restrictions indicated in a red box.

If the *Threat Card* has an immediate effect, trigger that effect now. Some threats, like the *Fishing Boat*, have an ongoing effect.

After placing the *Threat* and triggering any effects, your turn is over. Those darn predators!



#### THREAT STRATEGY

Threats make it more difficult to play Waddles in the Rookeries you place them in. Consider placing a Threat in a Rookery where you have the most Nests to protect your lead there. Or maybe play it in another Rookery to slow down a competitor.

"A strange occurrence was the sudden appearance of eight emperor penguins from a crack 100 yds. away."

-- Ernest Shackleton

#### **GAME SETUD**

# Ice Floe

Prepare the Penguin Deck then place it here face-down.

Fill the Ice Floe by turning over 2 Penguin Cards for each player.





#### **Score Track**

Each player puts one Nest on the zero space.



#### **Season Events**

Make a deck with one random Season Event per Breeding Season.



#### **Conservation Points Tokens**

Place one random token in the designated spot at each Rookery.



#### **Threat Tokens**

Place the Threat Tokens next to the Game Board.

#### **Fish Tokens**

Make the Fish Supply Pile by placing the Fish Tokens in the center of the Game Board.

#### **Extra Score Tokens**

Place the Extra Score Tokens next to the Game Board.

#### **Fish Supply Tokens**

Place one random token in each Rookery.

#### Frozen Cards

Place the Frozen Cards somewhere convenient, like below Antarctica.

#### **Give Each Player**

- One Player Aid Card
- All the Nests of one color



#### FIRST

Choose a First Player and give them the First Player Standee.



Starting with the First Player, and continuing clockwise, each player chooses a Penguin Hero Card.









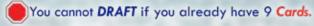
#### **PLAYING A TURN**

On your Turn, if you did not reveal a Threat, choose from one of these Actions.

lf you draw or reveal a *Threat*, skip your turn and proceed to *Playing a Threat*.

#### DRAFT PENGUINS

Take one Face Up or Face Down Card.





#### **EXCHANGE A PENGUIN**

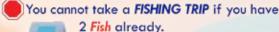
Swap a Penguin Card. Take a FROZEN Card.





#### FISHING TRIP

Put a Penguin Card back on the Ice Floe. Take a Fish.





#### REFILL YOUR HAND

If you have no **Cards**, take two **Cards**. One **Card** must be Face Up.



#### **PLAY WADDLES**

- Choose a Rookery that is Compatible with your Waddle. (See page 8)
- 2. Return a *Fish* from that *Rookery*, or from your hand, back to the *Fish Supply Pile*.
- 3. Claim ! Move your token on the Score Tracker.
- 4. Place Nest(s) if allowed. (See page 9)
- 5. Waddle Waddle if you can, (see page 9) otherwise return the rest of the cards in your hand to the *Ice Floe*.
- 6. Discard your Frozen Card if you have one.



#### **WHAT'S A WADDLE?**



3 to 6 Penguin Cards in Numerical Order.



3 to 6 Penguin Cards all the same Species.



3 to 6 Penguin Cards all the same Number.

#### **WADDLE SCORING**

Waddles score based on the number of Penguin Cards in the Waddle. More Cards = more

Waddle Size	Normal Waddle	Bonus Waddle
3 111	5	8
4 1111	8	12
5 11111	11	16
6 111111	15	21

#### **BONUS WADDLES!**

Score +1 bonus per Penguin Card for All Same

Species in Numerical Order. (The Waddle below is worth

not 5).

#### **COMPATIBLE ROOKERIES**

A Waddle is Compatible with a Rookery if at least one Species Symbol on any Penguin Card matches a Species Symbol at the Rookery. In this example, the Waddle is compatible with South Georgia Island because a Gentoo symbol matches.



#### **CAN YOU EVEN WaddleWaddle?**

After you play a Waddle, if ALL of the remaining cards in your hand form a second Waddle with NO EXTRA CARDS, you can Waddle Waddle!

To Waddle Waddle play the second Waddle following the usual rules. You do not have to play the second Waddle at the same Rookery as the first Waddle.

Remember: you can only Waddle Waddle if there are NO LEFTOVER CARDS after playing the second Waddle.

Sadly, this means you cannot Waddle-Waddle!

"Difficulties are just things to overcome." -- Ernest Shackleton

#### **PLACING NESTS**

Place one Nest for each Mating Pair (two of the same Species) in your Waddle, which also matches the Species icons listed on the Rookery. In this example, place TWO Nests if you play your Waddle at Macquarie Island, but place only ONE Nest if you play it at the Antarctic Peninsula or at the Argentine Sea.



Each Waddle plays at a single Rookery, so if it places more than one Nest, place ALL of the Nests for that Waddle in that same Rookery.

Each Waddle requires only one Fish no matter how many Nests you place (even if you don't place any Nests).

(Threats and Heroes may modify placement rules.)

"A bird doesn't sing because it has an answer, it sings because it has a song."

-- Joan Walsh Anglund

"Wherever there are birds, there is hope."

-- Mehmet Murat Ildan

#### SCORE TRACKER

Use the **Score Tracker** to keep track of your score as you play each Waddle. In this example, purple has 45 They score a Waddle worth 8, so they move the score token from 45 to 53.



#### THE GREAT PENGUIN RESCUE OF 2000

In June of 2000, MV Treasure sank off Cape Town. 19,000 African penguins and hundreds of other seabirds were oiled, and a further 19,500 penguins were captured and translocated to the Eastern Cape. Penguin Hero Dyan deNapoli was part of a worldwide rescue team led by SANCCOB (Southern African Foundation for the Conservation of Coastal Birds).

"Exhausted, the penguin finally heaved itself onto the rocky beach, where hundreds of other penguins stood huddled together, the heavy black oil that slowly dripped from their bodies forming expanding black puddles around their feet."

--Dyan deNapoli, "The Great Penguin Rescue"

"2020 marks the 20th year since this event, which is still recorded as the biggest animal rescue operation in the world."

#### **ENDING A SEASON**

Playing the 4th *Threat Card* triggers the end of the season. When the 4th *Threat* is played, each player in the current *Round* who has not acted yet gets another *Turn*. Then play one final *Round*. This is your last chance to play a Waddle and score this Season.

Example: Dee has the First Player Standee and finds the last Threat on her Turn. The other players get one more Turn, then the final Round begins. In a multi-Season game, if you can't play a Waddle, your final Action may be a Fishing Trip to acquire a Fish for the next Season.

#### **END OF SEASON SCORING**

Now that the Season is over, score the **End Of Season Bonus** for each **Rookery**.



The player with the most Nests gets the larger bonus. Second most Nests gets the smaller bonus.

In case of a tie for 1st Place, the players tied for 1st place each get the 2nd place bonus. 2nd place is not awarded.

In case of a single player claiming 1st place and multiple players tied for 2nd place, the players tied for 2nd place will each get half of the 2nd place bonus.

If your score passes 100 grab an Extra Score Token.

If it passes 200 flip the token over!

#### THE NEXT SEASON

In a *multi-Season* game, you'll need to reset the game between Seasons:

- 1. Fish and Nests remain on the board between Seasons.
- 2. Keep any Fish you have in your hand.
- 3. Players discard all Penguin Cards.
- 4. Rebuild the Penguin Deck and Ice Floe.
- Return the Threat Tokens, Fish Supply Tokens and Conservation Points Tokens to the side of the board.
- 6. Give the First Player Standee to the player in last place. (In case of a tie for last, choose the player closest to the left of the current First Player).
- 7. Draft the Conservation Points Tokens and Fish Supply Tokens (see below).
- 8. Place additional Fish in each Rookery.
- 9. Reveal the next Season Event Card.
- 10. Begin play with the First Player.

#### **DRAFTING TOKENS**

**5 or more players:** In Lowest to Highest score order, each player chooses a *Conservation Points Token* and places it in a *Rookery* that doesn't have one.

4 players: The last place player places two Conservation Points Tokens. Then proceed one at a time.

3 players: The last place player places three Conservation Points Tokens. Then proceed one at a time.

Draft Fish Supply Tokens the same way, but in Highest to Lowest score order.

#### **WINNING THE GAME**

After the final **Season** ends, the player with the most wins the coveted **Top Conservator** prize.

In case of a tie, the player with the most *Nests* wins. If there is still a tie, the player with the most *Nests* in a single *Rookery* wins.

If there's still a tie, celebebrate this amazing achievement! No matter the score, you all win because you all did something to help penguins!

#### SIMPLIFIED RULES

Regardless of which **Game Speed** you choose, you also have a choice of the standard ruleset or the simplified ruleset.

The simplified ruleset is for less-experienced gamers, younger children, or just those who like a more casual gaming experience free from rules and restrictions.

For a simpler game, choose any of the following changes:

- 1. Don't use the *Threat Cards*. The *Breeding Season* ends as soon as the *Penguin Deck* has no more face down cards.
- 2. Don't discard your extra cards after playing a Waddle.
- 3. Don't use Fish. It doesn't cost a Fish to play a Waddle.
- 4. Don't use *Frozen Cards*. There is no limit to how many times you can exchange cards with the *Ice Floe*.

11- 100-11 -1X 0

- 5. Don't use Season Event Cards.
- 6. Don't use the Penguin Hero Cards.
- 7. Have fun!

"More simply stated, if penguins are dying, it means our oceans are dying. Which ultimately will impact other species, including humans."

-- Dyan deNapoli

"Such significant declines suggest that the Southern Ocean's ecosystem is fundamentally changed from 50 years ago, and that the impacts of this are rippling up the food web to species like chinstrap penguins."

-- Dr. Heather Lynch

"We pretty much solved the oil pollution problem. Once those tanker lanes got moved further offshore, we're not seeing oiled penguins like we did 35 years ago."

-- Dr. Dee Boersma

"Penguins enrich our lives and livelihoods in many ways. So if they make such a great effort to thrive and protect their chicks against all odds, we can all do our part."

-- Dr. Pablo Boroboroglu

"Penguins appeal universally to humans, even in places where penguins do not live."

-- Dr. Lloyd Spencer Davis

"Just as canaries alerted coal miners to dangerous air quality, ecosystem sentinels serve as early warning systems of natural or human caused environmental change."

-- Center for Ecosystem Sentinels

#### TWO PLAYER VARIANT

For an engaging two player game of Waddle Waddle, set up and play the game as usual, with the following modifications:

- 1. The Ice Floe has four cards. Refill the Ice Floe at the start of a Player's turn when it has less than four Penguin Cards.
- 2. When scoring end-of-Season , only award to the *Player* with the most Nests. In case of a tie, neither *Player* scores any
- 3. If a Player runs out of Nests of one color, the Player can choose a second color of Nests to supplement their supply.
- 4. The recommended game length is two Seasons. But hey, you paid for this game, we're not going to stop you if you want to play three Seasons.

"Dr. Pablo Boroboroglu is responsible for major achievements in understanding penguin behavior and ecology. He has preserved millions of acres of critical penguin habitat, which is an astonishing achievement. He is a powerful, optimistic, and expert voice for animal conservation and is extremely deserving of this year's Indianapolis Prize."

-- Dr. Rob Shumaker, President and CEO Indianapolis Zoological Society, Inc.

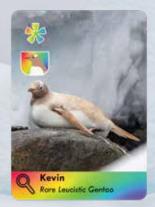
#### KEVIN

Kevin is a very special Gentoo penguin who lives at Detaille Island. Kevin is Leucistic, which means his body doesn't produce all of the normal pigmentation that a Gentoo usually has. In particular, Kevin's feathers lack the black pigment which is why he looks tan or beige. Kevin is an optional card you can add to Waddle Waddle for even more gameplay variety.

#### HOW TO PLAY KEVIN

To play with Kevin, shuffle Kevin into the top half of the Penguin Deck. Kevin cannot be part of a Waddle, but on your turn, if you have Kevin in your hand you may exchange Kevin with a card from the Ice Floe. When you do so, do not take a Frozen Card as usual. Then after exchanging Kevin, immediately take a second Action for free. You cannot Draft Kevin back to your hand on the same turn that you exchange him with another Penguin Card.

Kevin counts as a normal card otherwise, thus you cannot Waddle Waddle while holding Kevin. If you play a Waddle while holding Kevin, you must discard Kevin to the Ice Floe.



#### THREATS

The Waddle Waddle base game comes with seven Threat Cards, each with a unique ability and a matching Threat Token for placing on the Game Board.



#### **PENGUIN CARDS**

Waddle Waddle contains six decks of *Penguins Cards*. Each deck contains 12 *Penguin Cards* numbered 1 - 6, two of each number. There are a total of 72 different *Penguin Cards*, each with a unique fact about penguins.













#### **PENGUIN SPECIES CLARIFICATION**

Waddle Waddle has Penguin Cards for six of the world's species of Penguins. One of those species we have labeled simply as Rockhopper to simplify card layout. Did you know there are three subspecies of Rockhoppers? Northern, Southern and Eastern Rockhoppers! The Rockhoppers you see in Waddle Waddle are Southern Rockhoppers.

#### IN MEMORIAM

Most of the penguin photos in Waddle Waddle were taken by Craig and Lauren. Besides being a good friend, Craig was one of my groomsmen. He loved the Antarctic so much that he traveled there six times. On the fifth trip, Lauren came too and took many of the photos you see. On that trip, Craig proposed to Lauren on Booth Island, amongst the penguins.

Craig passed from cancer in 2020. He is survived by Lauren and their son Thomas.



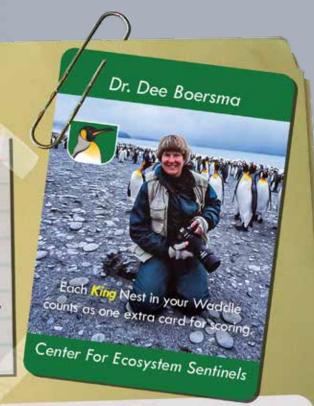
#### Boersma, P Dee PhD

Founder, Center for Ecosystem Sentinels

Doctor of Science, Central Michigan (Honorary) PhD Zoology, Ohio State B.Sc Honors, Central Michigan

When playing Dr. Dee Boersma, each King Nest a Waddle places counts as one extra Penguin Card for Waddle size scoring purposes. Waddles bigger than 6 cards don't score extra

For example, if your Waddle has four King Penguin Cards, it would place two Nests, and score as if it had six Penguin Cards, scoring 15 instead of 8.



Dr. Dee Boersma is the founder of the Center for Ecosystem Sentinels at the University of Washington. The Center advances the conservation of species that are sentinels of their ecosystem by linking science to effective policy actions. She enjoys working in penguin colonies because they are noisy, bustling with activity, and often internet-free.

Dee holds the Wadsworth Endowed Chair in Conservation Science and was elected to the American Academy of Arts & Sciences. She also co-founded the IUCN Penguin Specialists Group and the Global Penguin Society with Dr. Pablo Borboroglu. Dee has received the Elliot Coues Award, the Heinz Award for the Environment, the Pacific Seabird Group Lifetime Achivement Award, and was a finalist for the Indianapolis Prize three times. Most recently she was awarded the Godman-Salvin Prize as a signal honor for her distinguished ornithological work.

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Learn more about Dee's work at www.ecosystemsentinels.org

#### Boroboroglu, Pablo PhD

President, Global Penguin Society

National University of Comahue, Argentina PhD (honors) in Biology, Ecology and Management of Seabirds

National University of Patagonia Sun Juan Bosco Bachelor of Biological Sciences, Seabird Ecology

When playing Dr. Boroboroglu, if the highest Penguin Card (or tied for highest) in your Waddle is a Magellanic penguin, you may play that Waddle in any Rookery, ignoring the usual Nest placement restrictions for the Magellanic penguins.

For example you could place Magellanic Nests in the Crozet Islands, Antarctic Peninsula, Maquarie Island or South Georgia Island.



Pablo is the founder and President of the Global Penguin Society, a researcher at the National Research Council in Argentina, associate professor at the University of Washington, and the co-founder and co-chair of the IUCN Penguin Specialist Group. He has spent 35 years in the field of marine conservation, with special emphasis on penguins. He and his team have helped protect 32 million acres of habitat for penguins.

He has worked extensively as a scientific advisor to the media, including Disney,
Paramount Pictures, BBC, CNN, National Geographic, among others.

He is a Duke University Global Fellow in Marine Conservation, received the Pew Fellowship in Marine Conservation, the Whitley Gold Award, the National Geographic Buffet Award, The Rolex Award for Enterprise, and the Honor Recognition by the Congress of Argentina. He is also the winner of the 2023 Indianapolis Prize, the world's leading animal conservation award.

Learn more about Pablo's work at www.globalpenguinsociety.org

deNapoli, Dyan

BSc Animal Science, Mount Ida College AZA Conservation Education,

North Carolina State University
AA Liberal Arts, Colby-Sawyer College

When playing Dyan deNapoli, for each Rockhopper Nest your Waddle places, you MAY move a Nest from there to another Rookery. Nests can be moved to any Rookery, even if the Brown Skua is present at the destination Rookery.

Your own existing Rockhopper Nests, are not immune from this ability. When you place Rockhopper Nests at a Rockery, you may move your own existing Rockhopper Nests there elsewhere.



Dyan deNapoli (AKA The Penguin Lady) is a penguin expert, TED speaker, and award-winning author. While working as a Penguin Aquarist at Boston's New England Aquarium, she helped manage the rescue of 40,000 penguins from the MV Treasure oil spill near Cape Town, South Africa. Her 2011 TED talk and first book, The Great Penguin Rescue, both recount this historic event. She founded her company, The Penguin Lady, in 2005 to teach audiences worldwide about penguin biology, behavior, and conservation.

Over the last 30 years, Dyan has been a frequent guest penguin expert on TV, radio, and podcasts in the US and abroad. She has given 6 TEDx talks, and has been a lecturer on several ships visiting Antarctica, including on the National Geographic Explorer. Her lifelong mission is to raise awareness and funding to protect threatened and endangered penguins.

To learn more about her work, visit www.thepenguinlady.com

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### Davis, Lloyd Spencer PhD

Professor, University of Otago

PhD Zoology, University of Alberta, Canada MSc Zoology, University of Canterbury, New Zealand BSc & BSc(Hons) 1st Class, Zoology, University of Wellington, New Zealand

When playing Dr. Davis, place one extra Nest on any turn when you place a Macaroni Nest. Place the extra Nest in the same Rookery where you placed the Macaroni Nest. You may place at most ONE extra Nest on a turn.

For example, if you WaddleWaddle and each Waddle places a Macaroni Nest, only one of the Waddles will place an extra Nest.



- Dr. Lloyd Spencer Davis is an award-winning writer who has penned
- 10 books on penguins. His work has been involved with penguins for
- over three and a half decades. He was commissioned to write by the
- Smithsonian Institute, and he was also the senior editor of the
- landmark textbook about penguins entitled, Penguin Biology.
- In addition to being a writer, Lloyd Spencer Davis is also an award-
- winning scientist, photographer, filmmaker and science communicator.

  He currently holds the Stuart Chair in Science Communication at the
- University of Otago where, among other things, he teaches creative nonfiction writing and science communication.
- Learn more about Lloyd's work at lloydspencerdavis.com

#### Ludynia, Katrin PhD Research Manager at SANCCOB

PhD in Marine Biology, University of Kiel, Germany Diplom in Biology, University of Kiel, Germany

When playing Katta, you MAY convert two Chinstrap

Penguin Cards in each Waddle you play to a different species.

For example, if your Waddle consists of the 1 Chinstrap,

2 Macaroni, and 3 King Penguin Cards, you may convert the

Chinstrap to either Macaroni or King, allowing you to place
a Nest where either species nests.



Dr. Katrin "Katta" Ludynia is the Research Manager at SANCCOB in South Africa and has been researching southern African seabird species for around two decades, with a focus on reversing the decline of the endangered African penguin.

Dr. Ludynia started her career counting gulls in the North and Baltic Seas and today leads the African penguin transponder project, which has successfully marked thousands of African penguins with Passive Integrated Transponders to monitor their movements in the wild.

Katta and her SANCCOB colleagues strive to understand how best to improve both marine
 and terrestrial habitats for this species and how to limit threats from fisheries, climate
 change and pollution. They play a crucial role in bolstering the wild population by
 annually rescuing and hand-rearing hundreds of abandoned African penguin eggs and

chicks that would not survive without intervention.

Learn more about Katta and SANCCOB's work at sanccob.co.za

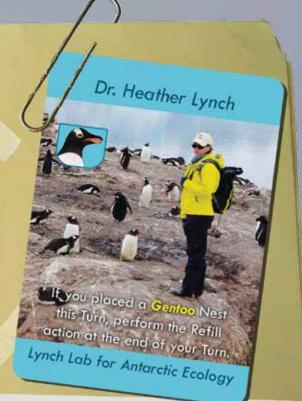
#### Lynch, Heather PhD

Founder, Lynch Lab for Antarctic Ecology

PhD Organismic and Evolutionary Biology, Harvard University
MA Physics, Harvard University
AB Physics, Princeton University

When playing Dr. Lynch, if you placed a Gentoo Nest, you must perform the Refill action at the end of your turn, instead of waiting until your next turn.

Note: If a season event causes you to retain cards after playing a Waddle, you cannot use Dr. Lynch's ability. Your hand must be EMPTY in order to take the Refill action.



Dr. Heather Lynch is a National Geographic Explorer who has spent nearly two decades using cruise ships, research vessels, and small yachts to map out the distribution and abundance of penguins in Antarctica. In addition to leading survey teams in the field, Dr. Lynch is a pioneer in the use of satellite imagery for studying Antarctic seabirds. Her work contributed to the first global surveys of Adelie, Chinstrap, and Gentoo penguins.

Dr. Lynch received an NSF CAREER Award for her work on the spatial dynamics of Antarctic penguin colonies, is an early career fellow of the Ecological Society of America, won the Blavatnik National Award for Life Sciences, and is a Pew Marine Conservation Fellow.

Dr. Lynch and her collaborators have developed www.penguinmap.com as an interactive tool for scientists, the tourism industry, and policymakers.

Learn more about Heather's work at lynchlab.com

# WADDLE

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Elevation and Bathymetry Data: GEBCO Compilation Group (2023) GEBCO 2023 Grid (doi:10.5285/f98b053b-0cbc-6c23-e053-6c86abc0af7b)

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"Victory awaits those who have everything in order -- luck, people call it."

#### -- Roald Amundsen

Warning: This product contains small parts that can be swallowed and is not suitable for use by children under 36 months. THIS PRODUCT IS NOT A TOY. NOT INTENDED FOR USE BY PERSONS 3 YEARS OF AGE OR YOUNGER.







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