

# Phylo

**PHYLO:** The Trading Card Game celebrates ecosystems in all their awesomeness. It showcases the many wonderful, weird, and wacky species that live on our planet Earth. It also deals with some serious threats to ecosystems like wildfires, oil spills, and climate change.

**ECOSYSTEMS** are communities of species who interact with one another and interact with a common environment. An environment is defined by its **TERRAIN** and **CLIMATE**. When many different species make up a particular ecosystem, we say that the ecosystem is rich in **BIODIVERSITY**. Biodiversity is a good thing because it makes ecosystems more stable and resilient to threats.

The **PHYLO** Ecosystem Game allows players to use their **PHYLO** cards to build food chains, create stable ecosystems, sabotage opponents' ecosystems, and rack up points in the process. The game is flexible, and we encourage you to modify and play by your own house rules. For detailed rules, more gameplay options, and hundreds of free printable PHYLO cards, check out our website at [www.phylogame.org](http://www.phylogame.org).



## THIS IS A PHYLO CARD!

1. COMMON NAME

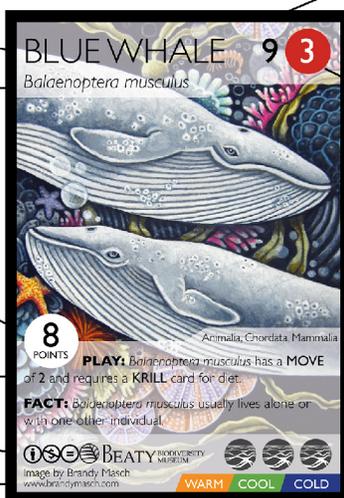
2. LATIN NAME

3. POINTS VALUE

4. CARD TEXT

5. LEGAL STUFF

6. ARTIST INFORMATION



7. SCALE #

8. FOODCHAIN #

9. DIET

**YELLOW** for autotrophs  
**GREEN** for herbivores  
**BROWN** for omnivores  
**RED** for carnivores  
**BLACK** for other

10. CLASSIFICATION

11. TERRAIN

12. CLIMATE

1. **COMMON NAME:** the simple, everyday name for a particular species.

2. **LATIN NAME:** the scientific name for a species, often used in research.

3. **POINTS VALUE:** the number of points that the card is worth.

4. **CARD TEXT:** may provide additional information on how the card can be played, along with a cool fact about the species.

5. **LEGAL STUFF:** PHYLO cards are licensed under Creative Commons Attribution-NonCommercial-NoDerivs 2.0 Generic. This means that anyone can share, copy, and freely distribute the cards, so long as credit goes to the artists and the card images aren't used for commercial purposes. Exceptions to these rules belong only to the artists and to the deck's official host.

6. **ARTIST INFORMATION:** this tells you who did the artwork on the card and where you can find more of their work.

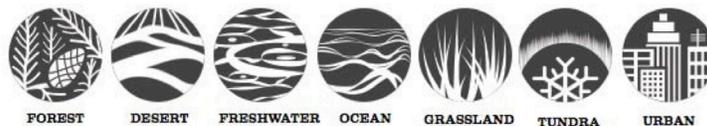
7. **SCALE:** the size of the species. Carnivores and meat-eating omnivores may only eat species of equal or lesser scale. Herbivores and plant-eating omnivores may eat species of any scale. Full details about species' scale value can be found at [phylogame.org/glossary](http://phylogame.org/glossary)

8. **FOODCHAIN#:** the species' relative position in its food web. Autotrophs such as photosynthetic plants are always FOODCHAIN#1. Herbivores, omnivores and carnivores will tend to have higher FOODCHAIN numbers, depending on where they fit in the food web.

9. **DIET:** the type of food a species eats. See colour legend above, but note that the black colour generally means you should read the card text for specific details.

10. **CLASSIFICATION:** how the organism is categorized scientifically. There are various ranks in this classification, and PHYLO cards display the three highest: Kingdom, Phylum/Division, and Class.

11. **TERRAIN:** the geographical and geological conditions of an organism's habitat. Essentially, where the organism lives (see icons below). An organism may have multiple terrain preferences.



12. **CLIMATE:** the climate preference of the organism: cold, cool, warm, or hot. An organism may have multiple climate preferences.

# THE PHYLOMON ECOSYSTEM GAME!

**Age:** 8 years old and up.

**Game Duration:** Approximately 20-30 minutes

**Number of players:** 2

**Deck Requirements:** Each player will need a deck of about 20 to 25 cards, which should include one HOME card each, as well as a mixture of SPECIES and EVENT cards. These decks you can build yourself, or you can use a “starter” deck such as the one you have bought (or one of several that you can download at [phylogame.org](http://phylogame.org)). For these “starter” decks, you can take out the two HOME cards, and shuffle the rest between the two players.

**Quick Instructions:** Two players sit across from one another at a table. At the start of the game, each player places his or her HOME card on the table. HOME cards should be placed adjacent to one another, facing in opposite directions (see right). Each player’s remaining cards must be kept face-down in a pile (called the PICK-UP pile). Players should also reserve a spot on the table for their discarded cards (called the DISCARD pile).

Players draw 5 cards from their respective PICK-UP piles to form their hand. The PHYLO Ecosystem Game is played in turns, and players may play rock, paper, scissors, to determine who will go first.

On each turn, a player will draw 1 new card from their PICK UP pile and may take 3 of the following ACTIONS (any combination):

- **PLAY** a card from your hand onto the table (SPECIES or EVENT card - see Playing a Card).
- **DROP** one card from your hand into a DISCARD PILE and PICK UP three new cards.
- **MOVE** a SPECIES card (see Moving a Card).
- **PASSING** (essentially to end their turn).

**Playing a Card:** It is important that players continue to place their own cards on the table “facing them” (and opposite to their opponent). This allows players to keep track of their own cards. Note that players may play cards adjacent to both their own or their opponent’s cards.

SPECIES cards may only be placed next to cards which share at least ONE common CLIMATE and ONE common TERRAIN. Species which share a common CLIMATE and TERRAIN are said to be environmentally COMPATIBLE.

SPECIES cards must also be foodchain COMPATIBLE. FOODCHAIN#1 cards can be played anywhere, so long as they are placed in an environmentally COMPATIBLE manner. Note that any FOODCHAIN#1 card may be played adjacent to a HOME card.

In general, FOODCHAIN#2 cards (a herbivore for instance) must be placed adjacent to at least one FOODCHAIN#1 card. FOODCHAIN#3 cards which are carnivores (meat-eating, as indicated by a red circle) may be played next to at least one FOODCHAIN#2 prey of equal or smaller SCALE (i.e. it can’t eat something bigger than itself, unless specified in the card text). Omnivores (FOODCHAIN#3, brown circle) may be played next to SPECIES which are FOODCHAIN#2 (meat) or FOODCHAIN#1 (plant). It’s also a good idea to read the card text (especially if the diet is a black circle), as specific instructions regarding FOODCHAIN connections may be provided (i.e. the organism has exceptional diet needs).

EVENT cards may be played as directed by instructions on the card. Unless otherwise specified, EVENT cards take immediate effect, and are then removed from the table and placed in the DISCARD pile.

EVENT cards will often result in cards that are INCOMPATIBLE to all adjacent cards (i.e. no shared CLIMATES or TERRAINS, and no proper FOODCHAIN connection). If so, the affected player has only their next turn (i.e. next 3 ACTIONS) to react to an EVENT before any of these



newly INCOMPATIBLE SPECIES cards are removed. These players may choose actions to play new cards that replenish broken food chains, and/or MOVE affected cards to COMPATIBLE areas on the table. Any cards that cannot be saved after this reaction turn must be placed in the DISCARD pile.

**Moving a Card:** MOVE# (located in the card text) indicates how many places a species may move per action. Species can be moved up, down, left, or right, and must be played in an open spot, adjacent to at least one other COMPATIBLE card on the table. Birds, insects, and other organisms that travel by FLIGHT may also move along a diagonal path. Like before with EVENT cards, any card made INCOMPATIBLE due to a MOVE is only discarded if the card is still INCOMPATIBLE after the affected player has been given his/her turn to react.

**Ending the Game:** When a player picks up his/her last card from their PICK-UP pile, then that player will finish his/her turn, and their opponent will then also play their one last turn. At that point, the game ends, UNLESS an EVENT card or a MOVE is played resulting in INCOMPATIBLE cards during that last turn – essentially, when this happens, the other player always has the right to react by getting one extra turn. In the end, players will then add up all points that remain on the table: player with the most points wins.

**Keywords:** Note that some cards will have special keywords. These can be ignored or played as described at the website’s glossary ([phylogame.org/glossary](http://phylogame.org/glossary)). For instance, the INVASIVE keyword, allows a player to play a card directly on top of (and thereby discard) a similar SPECIES card.

**Optional Rule:** Sometimes, cards which are compatible in the game are not actually compatible in real life. This might be because, despite sharing compatible terrains and climates, species may actually live in different areas of the world. As well, some species may have highly specialized diets and eat only a limited selection of things in the wild.

Because of this, some players choose to include a CHALLENGE or “call your bluff” rule. With this rule, players may challenge strange or questionable SPECIES connections (just as one would challenge a misspelled word in Scrabble). We recommend using Wikipedia ([www.wikipedia.org](http://www.wikipedia.org)) or the Encyclopaedia of Life ([www.eol.org](http://www.eol.org)) to verify real-world species compatibility.

The player that wins the “call your bluff” CHALLENGE may subsequently remove any card from the table with immediate consequences. For more gameplay options, check out our website at [www.phylogame.org](http://www.phylogame.org)!

# BEATY BIODIVERSITY DECK

## STARTER DECK VERSION 3.0

**Phylo** THE TRADING CARD GAME BETA

THIS DOCUMENT INCLUDES 8 PAGES OF CARDS (48 PHYLO CARDS) AND 1 CARD BACK PAGE.

NOTE THAT CARD SIZE IS IDENTICAL TO THAT OF POKEMON CARDS (62 mm x 87 mm or 2 7/16 inches x 3 7/16 inches).

WE RECOMMEND PRINTING THESE CARDS, IN COLOUR, ON 65LB+ WHITE CARD STOCK.

USING CARD SLEEVE PROTECTORS (~64mm x 89mm) OR LAMINATING CARDS WILL ALSO GREATLY ENHANCE THE FEEL OF THE CARDS.

FOR MORE CARDS, GAME RULES, AND GENERAL INFORMATION ABOUT THE PHYLO PROJECT, PLEASE GO TO:

<http://phylogame.org>

### Marbled Murrelet

6 3

*Brachyramphus marmoratus*



Animalia, Chordata, Aves

6 POINTS

**Play:** *Brachyramphus marmoratus* has a **FLIGHT** of 2

**Fact:** Unusual for a seabird, *Brachyramphus marmoratus* nests inland in old-growth forests.

Graphic by Derek Tan  
[botany.ubc.ca/derek](http://botany.ubc.ca/derek)

Cool, Warm

### Sea Otter

7 3

*Enhydra lutris*



Animalia, Chordata, Mammalia

8 POINTS

**Play:** *Enhydra lutris* has a **MOVE** of 2

**Fact:** *Enhydra lutris* have the densest fur in the animal kingdom, with nearly one million hairs per square inch.

Graphic by Derek Tan  
[botany.ubc.ca/derek](http://botany.ubc.ca/derek)

Cool, Warm

### BEATY BIODIVERSITY MUSEUM

Home Card



Home

Discover over 2 million specimens under one roof, including the largest blue whale skeleton on display in Canada.

Graphic by Beaty Biodiversity Museum  
[www.beatymuseum.ubc.ca/](http://www.beatymuseum.ubc.ca/)

Cold, Cool, Warm, Hot

### Himalayan Blackberry

6 1

*Rubus armeniacus*



Plantae, Angiosperms, Eudicots

1 POINT

**Play:** *Rubus armeniacus* is an **INVASIVE** species of *Plantae* cards of identical scale.

**Fact:** *Rubus armeniacus* is native to Armenia and northern Iran, but is now widespread across most of the temperate world.

Graphic by Alexandria Neonakis  
[alexneonakis.com/](http://alexneonakis.com/)

Cool, Warm, Hot

### Killer Whale

9 3

*Orcinus orca*



Animalia, Chordata, Mammalia

8 POINTS

**Play:** *Orcinus orca* has a **MOVE** of 2

**Fact:** *Orcinus orca* feed on fish, sea lions, seals, walruses and even large whales

Graphic by Kyu Hwang  
[kyuhwang.com/](http://kyuhwang.com/)

Cold, Cool, Warm

### Steller Sea Lion

8 3

*Eumetopias jubatus*



Animalia, Chordata, Mammalia

8 POINTS

**Play:** *Eumetopias jubatus* has a **MOVE** of 2

**Fact:** *Eumetopias jubatus* feed on a variety of fish, squid and octopus, and sometimes even other seals.

Graphic by Alexandria Neonakis  
[alexneonakis.com/](http://alexneonakis.com/)

Cold, Cool

### Mycorrhizal Fungi

3 1

*Oidiodendron* sp.



Fungi, Basidiomycota, Agaricomycetes

2 POINTS

**Play:** *Oidiodendron* must be played adjacent to a **PLANT SPECIES**

**Fact:** *Oidiodendron* forms a mutualistic relationship with the roots of most plant species

Graphic by Kyle McQueen  
kylemcqueen.net/

Cold, Cool,  
Warm, Hot

### Whitebark Pine

9 1

*Pinus albicaulis*



Plantae, Pinophyta, Pinopsida

2 POINTS

**Fact:** *Pinus albicaulis* may grow more than 20 meters in height if in favorable conditions

Graphic by Victoria Heryet  
victoriaheryet.com/

Cold, Cool

### Earthworm

4 2

*Lumbricus terrestris*



Animalia, Annelida, Clitellata

3 POINTS

**Play:** *Lumbricus terrestris* has a **MOVE** of 1

**Fact:** *Lumbricus terrestris* plays a major role in enriching soil by breaking down organic matter like dead leaves.

Graphic by Kyu Hwang  
kyuhwang.com/

Cool, Warm

### Pacific Krill

4 2

*Euphausia pacifica*



Animalia, Arthropoda, Malacostraca

4 POINTS

**Play:** *Euphausia pacifica* has a **MOVE** of 1 and feeds on (should be played adjacent to) a **PLANKTON** species card.

**Fact:** *Euphausia pacifica* oil can be used as a food supplement

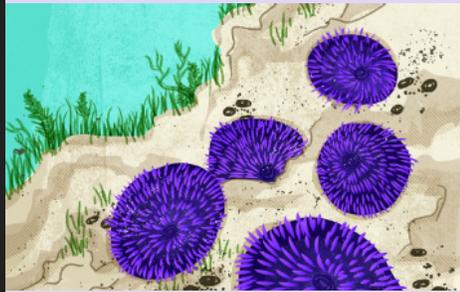
Graphic by Victoria Heryet  
victoriaheryet.com/

Cold, Cool

### Purple Sea Urchin

5 2

*Strongylocentrotus purpuratus*



Animalia, Echinodermata, Echinoidea

5 POINTS

**Play:** *Strongylocentrotus purpuratus* has a **MOVE** of 1. Must be played adjacent to at least one **OCEAN** terrain.

**Fact:** *Strongylocentrotus purpuratus* may live as long as 70 years.

Graphic by Lindsay Chetek  
www.lindsaychetek.com/

Cool

### Moss

5 1

*Isoetes cristatum*



Plantae, Bryophyta, Sphagnopsida

2 POINTS

**Fact:** Like other mosses, *Isoetes cristatum* does not have flowers and seeds, but reproduces using spores and spore capsules.

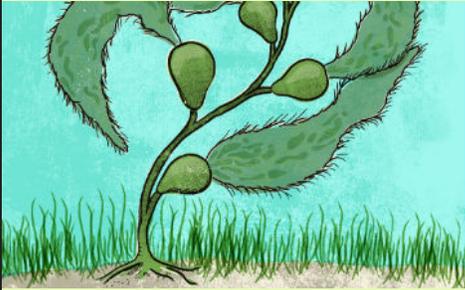
Graphic by Victoria Heryet  
victoriaheryet.com/

Cold, Cool,  
Warm, Hot

## Giant Kelp

8 1

*Macrocystis pyrifera*



**i** **\$** **=** Chromalveolata, Heterokontophyta, Phaeophyceae  
3 POINTS

**Fact:** *Macrocystis pyrifera* is one of the fastest-growing organisms on Earth, growing more than 60 centimetres per day

Graphic by Lindsay Chetek  
[www.lindsaychetek.com/](http://www.lindsaychetek.com/)

Cool, Warm

## Oil Spill

Event Card



**i** **\$** **=** Event

**Play:** Place this card on any ocean or fresh water based SPECIES card

**Effect:** The SPECIES card is IMMEDIATELY discarded.

Graphic by Kyu Hwang  
[kyuhwang.com/](http://kyuhwang.com/)

Cold, Cool, Warm, Hot

## Species Protection

Event Card



**i** **\$** **=** Event

**Play:** You can play this card immediately after your opponent has played an EVENT card on one of your SPECIES.

**Effect:** Negates the effect of the EVENT card. Does not work on EVENT cards that are not played specifically on top of SPECIES.

Graphic by Brandy Masch  
[www.brandymasch.com/](http://www.brandymasch.com/)

Cold, Cool, Warm, Hot

## Wildfire!

Event Card



**i** **\$** **=** Event

**Play:** Place on top of any SPECIES card of Grassland or Forest TERRAIN

**Effect:** The species card beneath the Wildfire is IMMEDIATELY discarded.

Graphic by Alexandria Neonakis  
[alexneonakis.com/](http://alexneonakis.com/)

## Habitat Loss

Event Card



**i** **\$** **=** Event

**Play:** Place this card on any SPECIES card and change it's habitat to URBAN permanently

**Effect:** This SPECIES card must be IMMEDIATELY removed. You may leave this card on the table to show this place is now URBAN terrain.

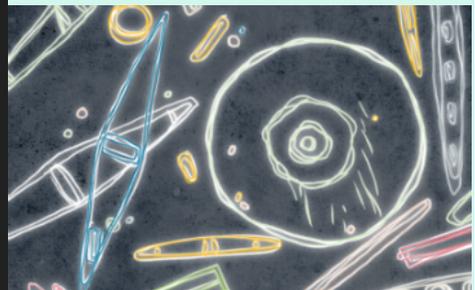
Graphic by Kyle McQueen  
[kylemcqueen.net/](http://kylemcqueen.net/)

Cold, Cool, Warm, Hot

## Phytoplankton

2 1

Class: Bacillariophyceae



**i** **\$** **=** Chromalveolata, Heterokontophyta, Bacillariophyceae  
1 POINT

**Play:** *Symbiodinium spp* has a MOVE of 1, and is often eaten by KRILL SPECIES.

**Fact:** *Symbiodinium spp* are also crucially dependent on minerals

Graphic by Kyu Hwang  
[kyuhwang.com/](http://kyuhwang.com/)

Cold, Cool, Warm

### Zooplankton

3 1

Copepoda subclass



Animalia, Arthropoda, Macillopoda

2 POINTS

**Play:** Copepoda has a **MOVE** of 1. Can feed Salmon, Blue Whale **SPECIES** cards.

**Fact:** Copepoda are primarily transported by ambient water currents

Graphic by Brandy Masch  
[www.brandymasch.com/](http://www.brandymasch.com/)

Cold, Cool,  
Warm

### Giant Kelp

8 1

Macrocystis pyrifera



Chromalveolata, Heterokontophyta, Phaeophyceae

3 POINTS

**Fact:** Macrocystis pyrifera is one of the fastest-growing organisms on Earth, growing more than 60 centimetres per day

Graphic by Lindsay Chetek  
[www.lindsaychetek.com/](http://www.lindsaychetek.com/)

Cool, Warm

### Dragonfly

4 3

Anisoptera infraorder



Animalia, Arthropoda, Insecta

7 POINTS

**Play:** Anisoptera has a **FLIGHT** of 2

**Fact:** Anisoptera are some of the fastest insects in the world

Graphic by Brandy Masch  
[www.brandymasch.com/](http://www.brandymasch.com/)

Cool, Warm

### Sockeye Salmon

6 3

Oncorhynchus nerka



Animalia, Chordata, Actinopterygii

7 POINTS

**PLAY:** *Oncorhynchus nerka* has a **MOVE** of 2. Can also feed on **ZOOPLANKTON SPECIES**.

**FACT:** The young fish, known as fry, spend up to three years in the freshwater lake before migrating to the ocean.

Graphic by Brandy Masch  
[www.brandymasch.com/](http://www.brandymasch.com/)

Cold, Cool

### Clark's Nutcracker

5 3

Nucifraga columbiana



Animalia, Chordata, Aves

2 POINTS

**Play:** *Nucifraga columbiana* has a flight of 2

**Fact:** *Nucifraga columbiana* eat a wide range of insect prey, berries and other fruits, small mammals and flesh from carcasses

Graphic by Lindsay Chetek  
[www.lindsaychetek.com/](http://www.lindsaychetek.com/)

Cold, Cool

### Oil Spill

Event Card



Event

**Play:** Place this card on any ocean or fresh water based **SPECIES** card

**Effect:** The **SPECIES** card is **IMMEDIATELY** discarded.

Graphic by Kyu Hwang  
[kyuhwang.com/](http://kyuhwang.com/)

Cold, Cool,  
Warm, Hot

## BEATY BIODIVERSITY MUSEUM

Home Card



Home

Discover over 2 million specimens under one roof, including the largest blue whale skeleton on display in Canada.

Graphic by *Beaty Biodiversity Museum*  
[www.beatymuseum.ubc.ca/](http://www.beatymuseum.ubc.ca/)

Cold, Cool,  
Warm, Hot

## Zooplankton

Copepoda subclass

3 1



Animalia, Arthropoda, Macillopoda

2 POINTS

**Play:** *Copepoda* has a **MOVE** of 1. Can feed Salmon, Blue Whale **SPECIES** cards.

**Fact:** *Copepoda* are primarily transported by ambient water currents

Graphic by *Brandy Masch*  
[www.brandymasch.com/](http://www.brandymasch.com/)

Cold, Cool,  
Warm

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Graphic by *Kyu Hwang*  
[kyuhwang.com/](http://kyuhwang.com/)

Cold, Cool,  
Warm, Hot

## Wildfire!

Event Card



Event

**Play:** Place on top of any **SPECIES** card of Grassland or Forest **TERRAIN**

**Effect:** The species card beneath the Wildfire is **IMMEDIATELY** discarded.

Graphic by *Alexandria Neonakis*  
[alexneonakis.com/](http://alexneonakis.com/)

## Habitat Loss

Event Card



Event

**Play:** Place this card on any **SPECIES** card and change it's habitat to **URBAN** permanently

**Effect:** This **SPECIES** card must be **IMMEDIATELY** removed. You may leave this card on the table to show this place is now **URBAN** terrain.

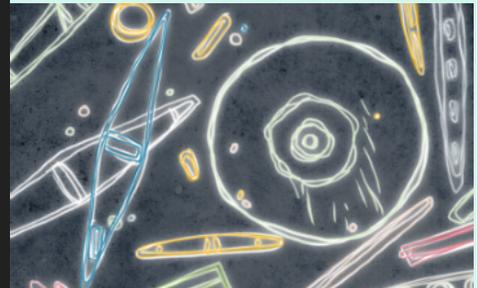
Graphic by *Kyle McQueen*  
[kylemcqueen.net/](http://kylemcqueen.net/)

Cold, Cool,  
Warm, Hot

## Phytoplankton

Class: Bacillariophyceae

2 1



Thromalveolata, Heterokontophyta,  
Bacillariophyceae

1 POINT

**Play:** *Symbiodinium spp* has a **MOVE** of 1, and is often eaten by **KRILL SPECIES**.

**Fact:** *Symbiodinium spp* are also crucially dependent on minerals

Graphic by *Kyu Hwang*  
[kyuhwang.com/](http://kyuhwang.com/)

Cold, Cool,  
Warm

### European Honey Bee

4 2

*Apis mellifera*



Animalia, Arthropoda, Insecta

2 POINTS

**Play:** *Apis mellifera* has a **FLIGHT** of 2 and is considered a **POLLINATOR**.

**Fact:** *Apis mellifera* collect nectar and pollen to feed on, pollinating flowers in the process.

Graphic by Kyle McQueen  
kylemcqueen.net/

Cool, Warm, Hot

### Moss Mite

4 3

*Oribatida* order



Animalia, Arachnida, Anthropod

2 POINTS

**Play:** *Oribatida* has a **MOVE** of 1.

**Fact:** Oribatid mites help to enrich soil by breaking down organic matter.

Graphic by Kyle McQueen  
kylemcqueen.net/

Warm, Hot

### Whitebark Pine

9 1

*Pinus albicaulis*



Plantae, Pinophyta, Pinopsida

2 POINTS

**Fact:** *Pinus albicaulis* may grow more than 20 meters in height if in favorable conditions

Graphic by Victoria Heryet  
victoriaheryet.com/

Cold, Cool

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Graphic by Alexandria Neonakis  
alexneonakis.com/

### Black Bear

8 3

*Ursus americanus*



Animalia, Chordata, Mammalia

2 POINTS

**Play:** *Ursus americanus* has a **MOVE** of 2

**Fact:** *Ursus americanus* are omnivores and their diets vary greatly depending on season and location

Graphic by Lindsay Chetek  
www.lindsaychetek.com/

Cool, Warm

### Human

8 3

*Homo sapiens*



Animalia, Chordata, Mammalia

2 POINTS

**Play:** *Homo sapiens* has a **MOVE** of 2. Although an omnivore, this card can only be played next to a **SPECIES CARD** that represents food that humans would actually eat.

*Homo Sapiens* may be played on any terrain

Graphic by Alexandria Neonakis  
alexneonakis.com/

Cold, Cool, Warm, Hot

### Himalayan Blackberry

6 1

*Rubus armeniacus*



Plantae, Angiosperms, Eudicots

1 POINT

**Play:** *Rubus armeniacus* is an **INVASIVE** species of **Plantae** cards of identical scale.

**Fact:** *Rubus armeniacus* is native to Armenia and northern Iran, but is now widespread across most of the temperate world.

Graphic by Alexandria Neonakis **Cool, Warm, Hot**  
[alexneonakis.com/](http://alexneonakis.com/)

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4 2

*Apis mellifera*



Animalia, Arthropoda, Insecta

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Graphic by Kyle McQueen **Cool, Warm, Hot**  
[kylemcqueen.net/](http://kylemcqueen.net/)

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Event Card



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**Effect:** The **SPECIES** card is **IMMEDIATELY** discarded.

Graphic by Kyu Hwang **Cold, Cool, Warm, Hot**  
[kyuhwang.com/](http://kyuhwang.com/)

### Species Protection

Event Card



Event

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**Effect:** Negates the effect of the **EVENT** card. Does not work on **EVENT** cards that are not played specifically on top of **SPECIES**.

Graphic by Brandy Masch **Cold, Cool, Warm, Hot**  
[www.brandymasch.com/](http://www.brandymasch.com/)

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Event Card



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Graphic by Kyle McQueen **Cold, Cool, Warm, Hot**  
[kylemcqueen.net/](http://kylemcqueen.net/)

### Mosquito

4 3

*Culicinae* subfamily



Animalia, Arthropoda, Insecta

1 POINT

**Play:** *Culicinae* has a **MOVE** of 2 and may be played next to land-based **mammalia** **SPECIES** cards.

**Fact:** Many species of mosquitoes are not bloodsuckers.

Graphic by Kyu Hwang  
[kyuhwang.com/](http://kyuhwang.com/)

Cool, Warm, Hot

### Blue Whale

9 3

*Balaenoptera musculus*



Animalia, Chordata, Mammalia

8 POINTS

**Play:** *Balaenoptera musculus* has a **MOVE** of 2 and requires a **KRILL** card for diet.

**Fact:** *Balaenoptera musculus* usually live alone or with one other individual.

Graphic by Brandy Masch  
[www.brandymasch.com/](http://www.brandymasch.com/)

Cold, Cool, Warm

### Climate Change

Event Card



Event

**Play/Effect:** Place this card on top of any **SPECIES** card to immediately remove. In the same action, the **EVENT** card then moves to an adjacent **SPECIES** card. A game of rock-paper-scissors determines whether this card is also discarded. Continue moving the **EVENT** card and removing **SPECIES** cards until you lose. Card can only be played once.

Graphic by Lindsay Chetek  
[www.lindsaychetek.com/](http://www.lindsaychetek.com/)

Cold, Cool, Warm, Hot

### Three-spined Stickleback

5 3

*Gasterosteus aculeatus*



Animalia, Chordata, Actinopterygii

7 POINTS

**Play:** *Gasterosteus aculeatus* has a **MOVE** of 2 and can also feed on **ZOOPLANKTON**.

**Fact:** *Gasterosteus aculeatus* has a pelvic fin which is used to protect the fish against other fish predators.

Graphic by Alexandria Neonakis  
[alexneonakis.com/](http://alexneonakis.com/)

Cold, Cool

### Pacific Krill

4 2

*Euphausia pacifica*



Animalia, Arthropoda, Malacostraca

4 POINTS

**Play:** *Euphausia pacifica* has a **MOVE** of 1 and feeds on (should be played adjacent to) a **PLANKTON** species card.

**Fact:** *Euphausia pacifica* oil can be used as a food supplement.

Graphic by Victoria Heryet  
[victoriaheryet.com/](http://victoriaheryet.com/)

Cold, Cool

### Salal

5 1

*Gaultheria shallon*



Plantae, Angiosperms, Eudicots

1 POINT

**Fact:** *Gaultheria shallon* has edible berries and is also an important medicinal plant for Aboriginal peoples.

Graphic by Kyle McQueen  
[kylemcqueen.net/](http://kylemcqueen.net/)

Cold, Cool, Warm



phylogame.org card back  
pattern: suzanne norris | [www.sakurasnow.com](http://www.sakurasnow.com)  
logo: haley fiege | [www.kingdomofawesome.com](http://www.kingdomofawesome.com)

