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## **GENERAL IDEA**

Ecosystems rock! They really do, and to be honest, we sometimes think the word "ecosystem" is kind of bland and just doesn't do justice to the concept. That's why we hope in this game, the inherent awesomeness of this ecological term will soon become pretty clear. Here, two players will have the opportunity to play with cards (from a potential card set of over 1.9 million!), and build an ecosystem that is complete with many different species interconnected by terrain, climate and habitat. However, players also get to compete against each other by tallying up and seeing who has the most points at the end of the game. These points basically reveal who did the better job at creating the strongest, richest, and most diverse elements of the ecosystem. Why do you want strong, rich and diverse? Because the environment can be nasty sometimes - and biodiversity, especially lots of it, is really really good at safe-guarding against such things.

## FIRST, A WORD ABOUT COMPATIBILITY...

Let's start by saying that the word "compatibility" comes up an awful lot in this game. But what it's referring to is pretty straightforward. On all of the cards, there are details that tell you what kind of conditions it needs – for example, this might be the kind of terrain or climate involved, the food it likes, or maybe the card you're holding is very very picky and needs something very very specific. In any event, we hope you'll pick things up pretty quick. It's amazing how a statement like "herbivores eat plants" translates to a mouthful when describing it in card keywords and numbers, but mark our words, we've tried our best to make everything pretty straightforward.

## THERE ARE A FEW CATEGORIES OF CARDS...

## **SPECIES CARDS:**

A player's species cards are always played adjacent to at least one compatible card.

These are the cards that represent the various organisms on our planet Earth. In essence, all values and attributes on the card aim to describe the creature as in real life (i.e. the cards are more or less like fact holders). Information on the cards include #SCALE (how big is it), #FOODCHAIN, DIET (these two provide information on what the species needs for sustenance), as well as habitat information (various combinations of TERRAIN and CLIMATE).



These cards will also have other pieces of info, such as words that describe their evolutionary position, as well as text that may explain some special ability or interesting trivia. Note that each species is also worth a certain number of points, which have been calculated based on the ease to include them in the ecosystem. i.e. creatures with wide habitat options, lower food chain expectations, and/or have properties that make them easier to play will score lower.

## **EVENT CARDS:**

Event cards can be played on any compatible species card.



These cards define some sort of environmental situation, and are played on top of species cards. This will often result in a change of some sort that may have a domino effect on neighbouring cards. The number on the top of these cards signify duration (number of turns the event is played). A strategic element of this game will largely depend on building ecosystems that can adapt to such events or are minimally affected.

### **STARTER CARDS:**

Starter cards are played only at the beginning of the game.

Starter cards are typically HOME cards. The game starts with each player having a HOME card played on the table played next to the other. You can play any FOODRANK 1 SPECIES next to a starter card regardless of TERRAIN and CLIMATE requirements.

#### O.K. WHAT TO DO AT THE BEGINNING...

Two players will sit facing each other, each with a deck of 24 cards.

Decks can be thematic (i.e. only locale specific cards), or hand chosen by the player from the Phylo website.

Each player will also have a STARTER card on the table facing them.

Each player will then randomly draw 5 cards from their deck. You may also choose to preselect these cards from your deck if you prefer.

To decide who goes first, each player reveals a species card from their hand. Whoever reveals the species with the highest #DIET goes first (flip a coin if tied).

#### HOW TO BUILD ECOSYSTEMS (DID WE MEN-TION HOW AWESOME THEY ARE?) PLUS, WE ATTEMPT TO DEFINE "COMPATIBILITY."

This is the essence of the game and is primarily done by creating networks of SPECIES cards. Here, cards are placed against each other such that at least one compatible link is present. Compatibility is based on several things, which **all** must be met by **at least one single card**.

#### These are:

1. That there is space on the table to place the card. There are some exceptions to this rule, where cards can be played on top or below existing cards – these often involve SPECIES with special keywords, such as being INVASIVE (see 4 for more information). match. Note that many species can exist in more that one TERRAIN and/or CLIMATE. These cards, therefore, tend to be easier to build networks around.

3. That at least one acceptable food chain link is available. This is hopefully fairly intuitive, as the game uses basic food chain principles. However, from a card perspective, this would involve the following rules.

- Species with a #FOODCHAIN value of "1" can be played adjacent to any other card as long as there is TERRAIN and CLIMATE compatibility. This simply means that things like plants and microbes do not rely on other SPECIES for food. i.e. they get sustenance from the sun or the chemistry around them.

- Generally, for #FOODCHAIN of 2 or higher, the card is placed next to one with a #FOODCHAIN value that is one below. However, exceptions to this include omnivores, which (regardless of #FOODCHAIN rank) can always have the option being played next to a *photosynthetic* species (who have a #FOODCHAIN value of 1).

- Whenever the play implies a carnivorous linkage (including an omnivore feeding on meat), the played card must have a higher #SCALE value unless text on the card provides an exemption. This simply means that, generally speaking, animals will tend to feed off of smaller animals. This, of course, does not apply to herbivorous interactions (i.e. an animal can still feed from a plant even though the plant may be bigger).

4. Some species have special keywords that allow them to be played directly on/with another SPECIES card. Here, requirements are always described on the card itself, as well as needing to meet the usual ecosystem building rules. Note that there can never be more than 2 SPECIES cards in the same card space (no card towers of 3 or higher), unless special text on the card exempts this. Below are some of the current keywords:

- **INVASIVE**: If the criteria match (as defined by text on the card) and it also fulfills compatibility requirements (i.e. it can still be part of at least one working ecosystem chain) an INVASIVE species can be played **on top** of another SPECIES card (and thereby discard it). This means that the INVASIVE card now provides TERRAIN and CLIMATE information for that space (which may or may not effect other compatibility networks).

- **PARASITIC**: These cards are placed **below** the compatible "host" SPECIES card. Here, they do not play a role in determining ecosystem details (i.e. TERRAIN, CLIMATE, etc) for that card space, but they can be used for scoring at the end of the game. Note that although many PARASITIC species cards require a host, there are also many that can be played like a normal SPECIES card.

2. That at least one TERRAIN and one CLIMATE

## CHANGING THE ECOSYSTEM (A.K.A. ENVIRON-MENTAL EVENTS!)

Much like the natural world, ecosystems are susceptible to all sorts of change. Sometimes, this might be small (it's windy), whereas other times, it may be quite profound (climate change). In this game, there are a number of ways to modify the networks that you and your opponent have created. These offer ways for you to stress, adapt, or strengthen existing card links, be it your own or your opponents. Remember that because the ecosystem is built on compatible linkage, sometimes a single card change or loss can result in a domino effect with far reaching consequences!

Ways to change the ecosystem include:

1. A species card is affected by placement of another species card on top or below. Examples include the aforementioned INVASIVE keyword.

2. You "move" a card. Most species are mobile. This mobility can change compatibility links, as well as provide a way to escape harmful effects. This can be represented by keywords such as:

 MOVE (the number of spots a species card can move – straight line, up, down, sideways movement only);

FLIGHT (the number of spots a species can fly
same as MOVE but can also include diagonal movement); and

- SPREAD (similar to the MOVE keyword, in that it allows organisms such as plants to move. The principle differences are that (1) often this ability requires something additional (like the presence of a POL-LINATOR or a WIND Event card), and (2) instead of moving the species, you can retrieve cards from the discard pile and placed them adjacent to the original SPECIES card. Note that space must be available for the spreading to occur, and that these cards are played **upside down** (i.e. not worth any points). However, these upside down cards can substitute as the original card in terms of representing TER-RAIN, CLIMATE, and DIET/FOODCHAIN values for ecosystem building. As well, in the event of losing your original SPECIES card (due to an EVENT for example), you may interchange the original with one of the connected upside down cards to ensure you still receive points.

Depending on how many spreading species you play, it might be a good idea to place tokens on these upside down cards. This helps keep track of what the originator species was (Note that seeds make good tokens)!

3. You play an EVENT card on top of a compatible SPECIES card. When these cards are played, the described effect will occur. This often involves things

that will change the TERRAIN, CLIMATE, or possibly result in the loss of the species card, etc.

In all cases, the other player will always have an opportunity to react to the change (one turn), before examining whether species cards need to be discarded because of loss of compatible linkage.

## BASIC PLAY

Whenever cards are played on the table, they are played **facing** the active player. Therefore, you know which cards are yours, because they will be the cards that appear upright to you. Now take a look at **BOX 1** where the general game play is described.

## **BOX 1: GENERAL GAME PLAY**

1. At the start of your turn, draw two cards from the deck.

2. Take three actions from the following choices (it's o.k. to do two or three actions that are the same, with the exception of playing Event cards):

- Discard 1 card into discard pile to draw 3 cards.

- Play a SPECIES card (next to any compatible card).

- MOVE a species card to new compatible spot. SPREAD and FLIGHT are analogous actions (see Changing the Ecosystem section)

- Play an EVENT card (limit one per turn, and must be your last action for the turn).

- Pass and do nothing.

3. After your actions, remove cards under your control that no longer have compatible connections. These go into your discard pile. Your opponent will probably help you out here! (NOTE that this step is done after your three actions so that you have an opportunity to react to ecosystem changes introduced by the other player in their previous turn)

4. Continue alternating turns for the remainder of the game. When a player has taken their last card from their deck, the game ends at the conclusion of the other player's turn.

5. Tally up all the points that are in your possession and still face up and still on the table (even those underneath cards). Winner is the player with the most number of points.

## EXAMPLE OF PLAY (WITH DIAGRAMS) - BASIC RULES V1.4a





Let's say he/she places the VALLEY OAK card to the immediate left of Player 1's HOME.

Now, we have two more actions to use up. For one of the actions, player 1 decides to add an INDIAN PLUM card.

As you can see, this card can also be placed at a number of different spots, pimarily because of its FOOD-CHAIN# 1 rank.

Player 1 decides to play the card above the VALLEY OAK.



4

Next, Player 1 wants to play a HORSE card. The figure here shows that from the three examples, only option 1 works, as all the compatibility requirements are met. The other two options (#2 and #3) have some incompatibility and therefore cannot be played.

Basically, option #1 produces the following network: HORSE to INDIAN PLUM to VALLEY OAK to HOME. Note however that the HORSE is fine even if the VALLEY OAK is removed, since the INDIAN PLUM can act as the primary food source anchor. ACTION 3 - OPTION 1 HORSE TO INDIAN PLUM: COMPATIBLE FOOD RANK (2) COMPATIBLE DIET (HERBIVORE) COMPATIBLE TERRAIN (GRASSLAND) COMPATIBLE CLIMATES

ACTION 3 - OPTION 2 HORSE TO VALLEY OAK: COMPATIBLE FOOD RANK (2) COMPATIBLE DIET (HERBIVORE) INCOMPATIBLE TERRAIN (GRASSLAN COMPATIBLE CLIMATES



ACTION 3 - OPTION 3 HORSE TO HOME CARD: INCOMPATIBLE FOOD RANK (2) INCOMPATIBLE DIET (HERBIVORE) TERRAIN N/A CLIMATE N/A



After Player 1's three actions, Player 2 will make sure that there are not any incompatible connections. Any found will result in discarding the card(s). Note that this only applies to Player 1's cards.

Player 2 will then pick up 2 extra cards and begin his/her 3 actions. Throughout the game, Player 2 will place cards on the table so that they are facing him/her (i.e. in the opposite direction – this is how you can tell each others cards apart).





6 In the end, Player 2 decides to place the SUNFLOWER card as the first action (see top figure), and then place the EASTERN KINGBIRD card as the second action (see bottom figure).

ACTION 1 SUNFLOWER PLACEMENT: COMPATIBLE FOOD RANK (1) COMPATIBLE DIET (PHOTOSYNTHETIC) TERRAIN N/A CLIMATE N/A



ACTION 2 KINGBIRD PLACEMENT: COMPATIBLE FOOD RANK (1) COMPATIBLE DIET (HERBIVORE) TERRAIN ( CLIMATE N/A

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This creates an EAST-ERN KINGBIRD to SUNFLOWER to HOME linkage.

Player 2 still has one more action to play.

# 7

For the third action, Player 2 decides to use an EVENT card.

The WILDIFRE card basically discards any *Plantae* card it is played on.

As you can see, when the WILDFIRE card is played on the INDIAN PLUM, the HORSE is now missing a necessary compatible link (i.e. something to eat). Therefore, it is now in danger of being discarded.

#### ACTION 3 WILDFIRE EVENT TO INDIAN PLUM

WILDFIRE EVENT TO INDIAN PLUM COMPATIBILITY? YES (PLANTAE) DISCARD INDIAN PLUM

Note that the HORSE card is now missing compatible linkage (no FOODCHAIN 1 to feed off). If the player is unable to adapt by moving cards or placing new cards to restore links, then they will need to be discarded.





Fortunately, the rules allow a player to react to these changes. In other words, the other player (Player 1) gets a whole turn of play before cards are discarded.

In this respect, this figure highlights two possible things that Player 1 can do to avoid discarding the HORSE. OPTION 1 MOVE HORSE 2 SPACES HORSE TO SUNFLOWER COMPATIBILITY LINKS RESTORED



OPTION 2

I.E. VALLEY OAK - INDIAN PLUM - HORSE. COMPATIBILITY LINKS RESTORED



Player 1 decides to MOVE his/her HORSE card. This counts as the first action.



For the second action, Player 1 decides to play his/her ROBIN card. The ROBIN has a FOODRANK# of 3 and is omnivorous (BROWN DIET COLOUR).

Because of the ability of the ROBIN to feed on plants (in compatible TERRAINS and CLIMATES), the ROBIN can be placed next to photosynthetic cards (3 possibilities as shown).

Note that the ROBIN can also eat meat. However, carnivorous interactions are only compatible next to cards of smaller SCALE. In this sense, the ROBIN cannot be played next to (say) the HORSE, even though all other compatibility criteria are met. i.e. the HORSE is just too big!

In the end, Player 1 decides to play the ROBIN next to the VALLEY OAK. As well, for his/her last action, Player 1 plays the EURASIAN LYNX next to the ROBIN (here the SCALE compatibility works).

This creates a EUR-ASIAN LYNX to ROBIN to VALLEY OAK to HOME chain.

It is now Player 2's turn again.



In this way, the game played back and forth. The key is to create good links so that even if something is discarded, there are other connections that can compensate, or to create links that allow for adaptation by movements or other keywords.

In any event, when a player has taken his/her last card from their deck, the game ends at the conclusion of the other player's turn. At that point, both players tally up all the points in species card that are in their possession and still on the table. Winner is the player with the most number of points.