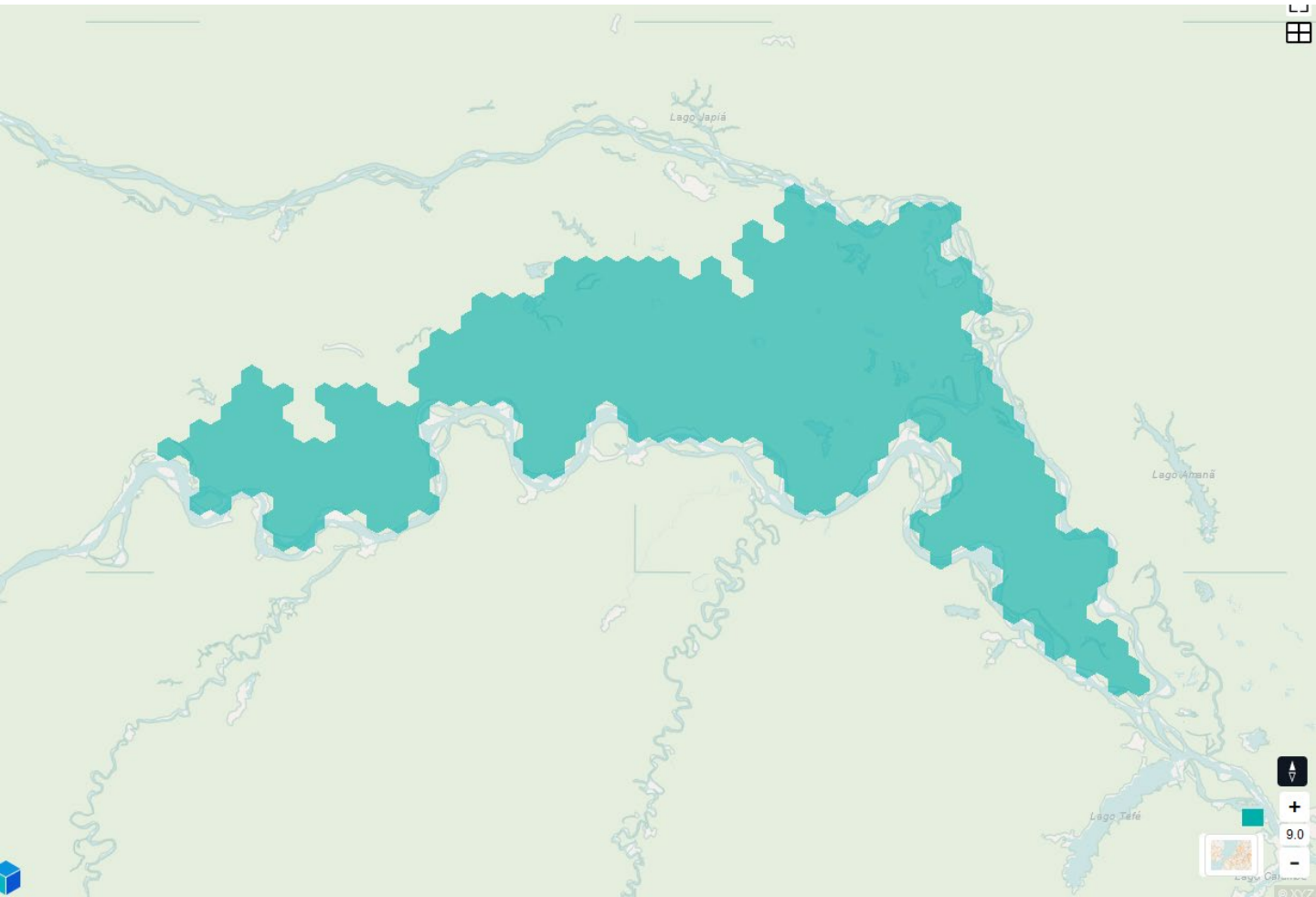


## Map application drawn from GeoJSON files



Map needs to center on GeoJSON data, location will change.  
Map should show heatmap based on a polygon parameter.  
Map can be single species or species-group (category) specific.  
Historic maps may be available, should be selectable with slider  
Might be easiest to integrate with Leaflet JS library.

## Dynamic selection of species categories



When a species is added to a category, add the icon; max 10 per category

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Last selected species name or empty

### Add species to category by

- drag a species into the category
- Click one or more species icons and click the category icon
  - Unselect by clicking again

### Remove species from category by

- Drag a species out of the category box
- Double click species

A species may be in multiple categories, max 10 species per category

Clicking a species icon should show the common name

# Categorization of species

- Server <https://providence.listentothedeep.com>
- Request category list: `/local/get_categories.php`
  - `{ "categories": [  
 ["cat 1", "/link/to/image"],  
 ["cat 2", "/link/to/image"],  
 ["cat 3", "/link/to/image"] ] }`
- Request species list: `/local/get_species.php`
  - `{ "species_list": [  
 { "scientific_name": "Name 1",  
 "common_name": "Common 1",  
 "group": "plant" | "animal",  
 "class_id": "123456789",  
 "image": "http://url/image.jpg"  
 }, ... ] }`

# Map commands

- Get list of map types:

/local/get\_map\_types.php

```
{ "map_types": {  
  "map_type": {  
    "input": "species" | "category" | "categories",  
    "draw": ["variable1", "variable2",...] },  
  ...  } }
```

A GeoJSON map can include one or more parameters that need to be user selectable and displayed as a heatmap.

# Map commands

- Get available maps for a specific map type, historic data currently only available for single species input maps:

```
/local/get_available_maps.php?
```

```
&type=<map_type>
```

```
&class=<class_id>
```

```
{ "available": { "type": <map_type>,  
                 "class_id": <class_id>,  
                 "maps" : [ { "name": "map_name",  
                              "created": ": "YYYYmmdd_HHMMSS",  
                              "url": "https://map1" }, ... ] }  
}
```

Maps are not guaranteed to remain available for any length of time.  
The urls field is chronologically sorted.

# Map commands

- Get a specific map:

```
/local/get_map.php?  
&type=<map_type>  
&class=<class_ids,>  
[&class2=<class_ids,>  
[&name=map_name | "latest"]
```

This command may generate the latest map, and can reply a bit slower.

map\_name is the file name as returned in the get\_available\_maps() command in the urls list.

class2 is only required for map types that have two categories as input.