

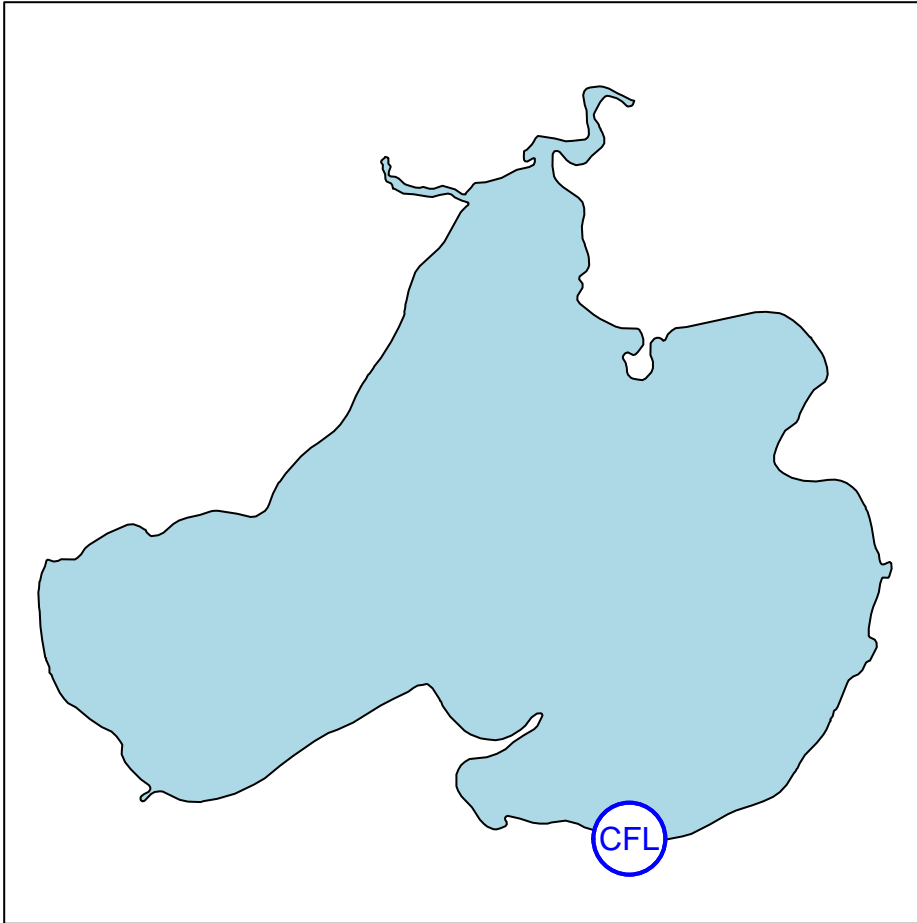
# Loken\_\_HW2

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*February 02, 2018*

Dear Dr. Dugan:

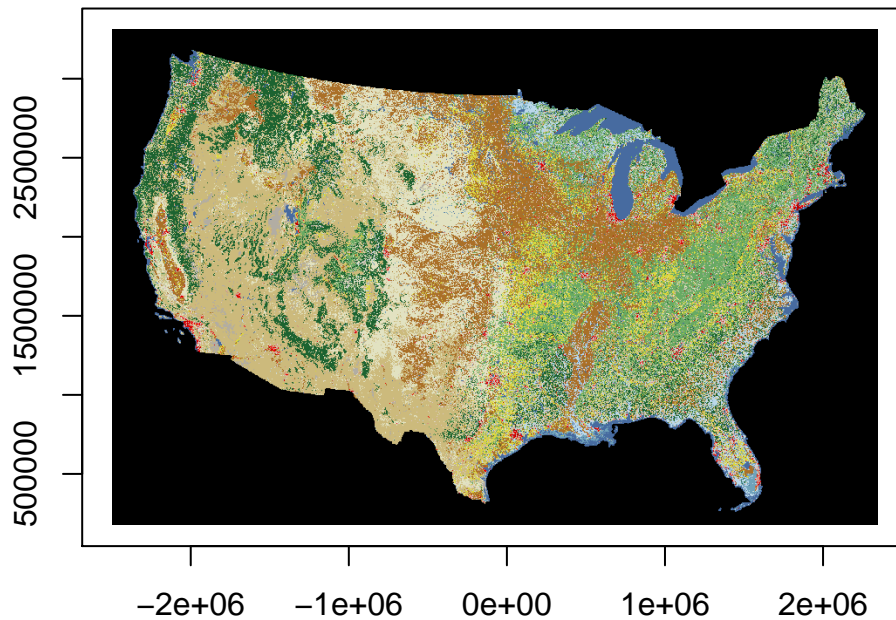
**Do you know what lake this is?**



Hint1 - It might be world famous.

Hint2 - You might be able to see it from your office.

What is the CRS for the 2011 National Land Cover dataset?



```
NLCCRS<-crs(NLC)
print(NLCCRS)

## CRS arguments:
## +proj=aea +lat_1=29.5 +lat_2=45.5 +lat_0=23 +lon_0=-96 +x_0=0
## +y_0=0 +ellps=GRS80 +towgs84=0,0,0,-0,-0,-0,0 +units=m +no_defs
```

Answer: USA Contiguous albers equal area, North American Datum 1983

## Determining if two spatial objects have the same CRS

Use the `identical()` function

```
identical(crs(ME), crs(CFL))
```

```
## [1] TRUE
```

```
identical(crs(ME), crs(NLC))
```

```
## [1] FALSE
```

Lake Mendota (ME) and the Center for Limnology (CFL) spatial objects have the same CRS.

Lake Mendota does not have the same CRS as the National Land Cover spatial object.