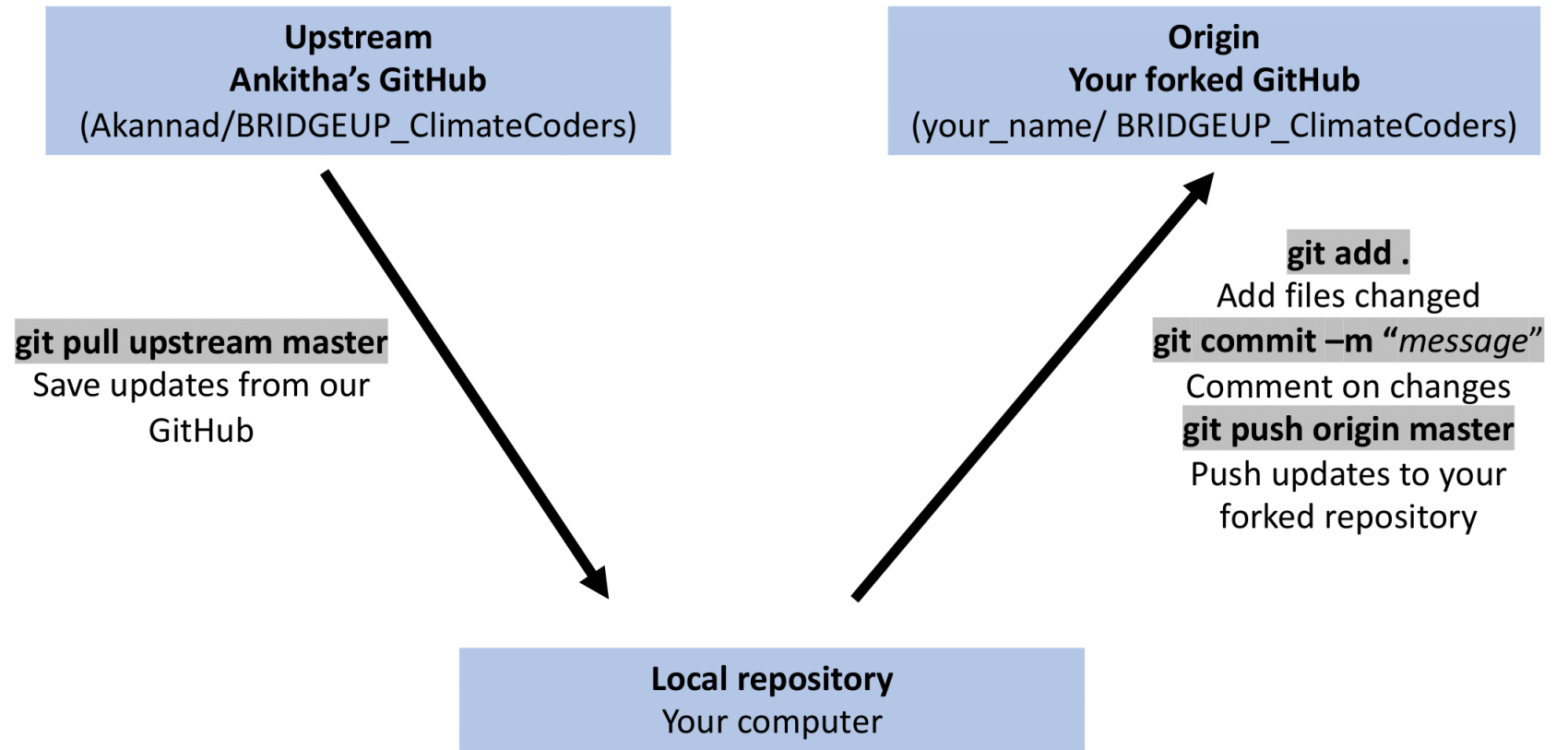


# HOUSEKEEPING

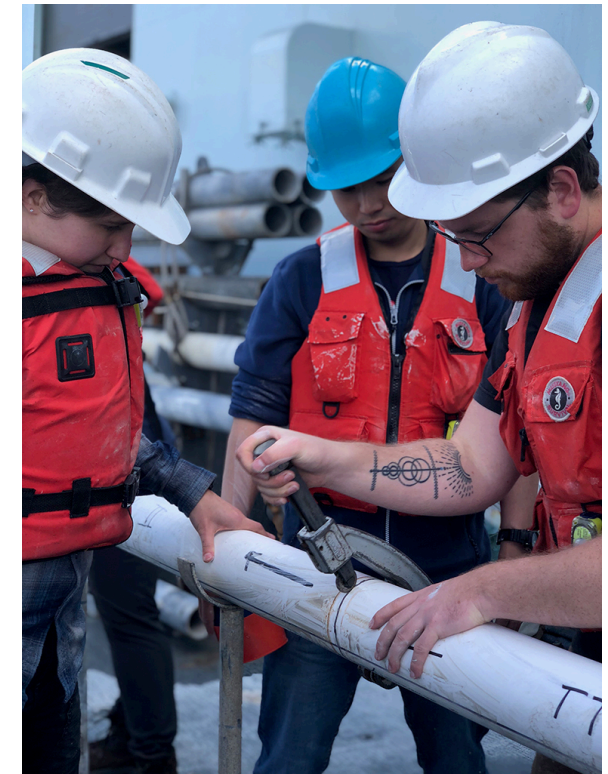
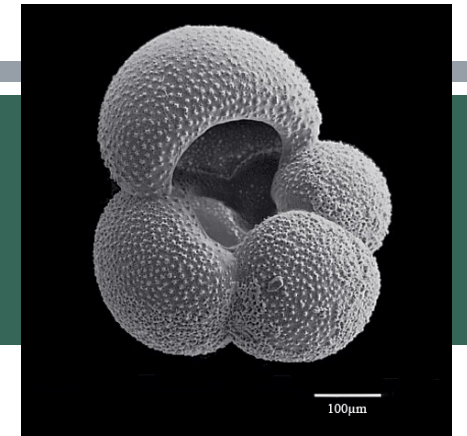
- Cheers and challenges:  
Mia 😊
- Taking notes?



UNIT 2: CLIMATE IN  
SOUTH-EAST ASIA  
DECEMBER 5<sup>TH</sup>, 2019

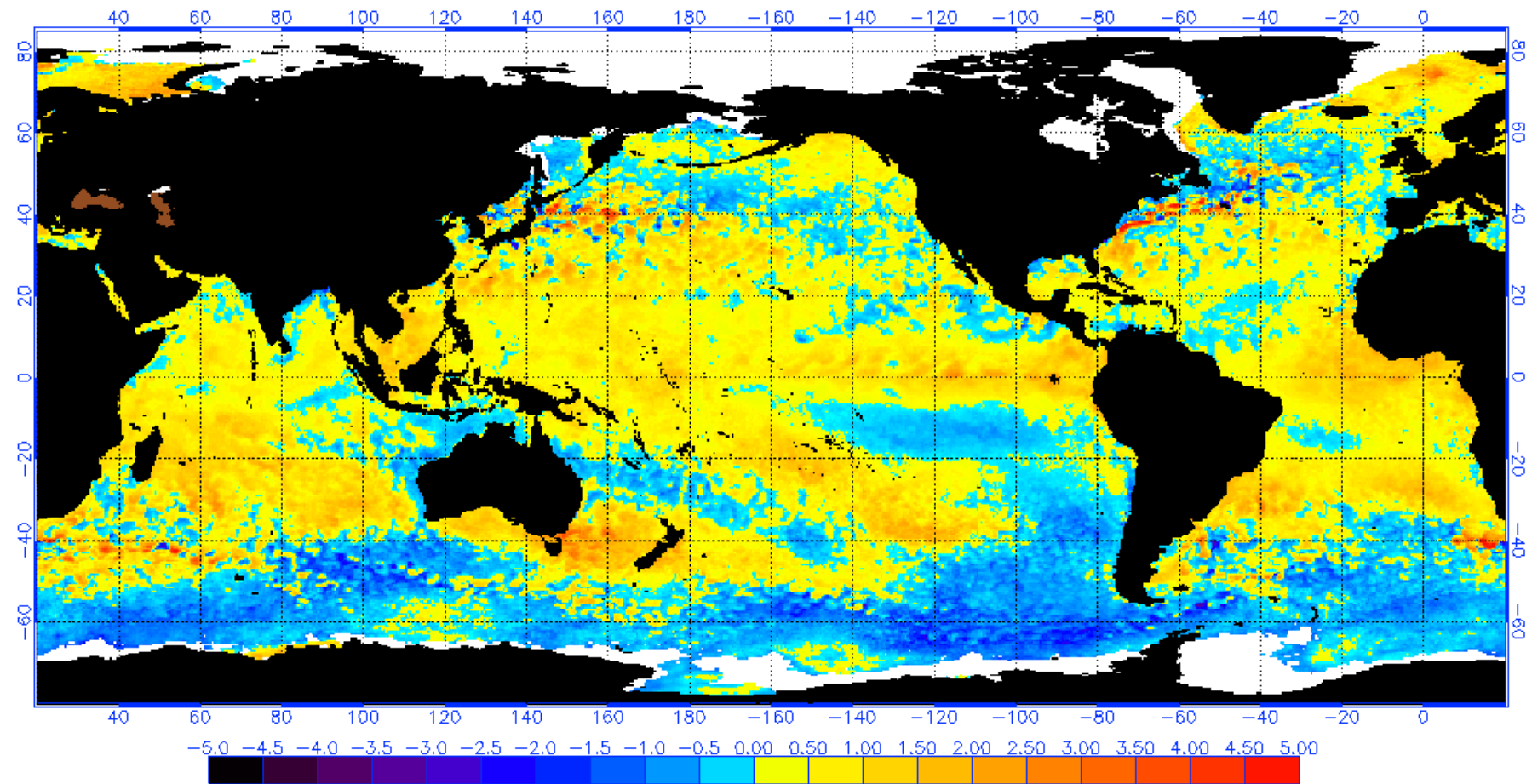
# INTRODUCTION

MEET RYAN!



# SEA SURFACE TEMPERATURE ANOMALY

NOAA/NESDIS 50 KM GLOBAL ANALYSIS: SST Anomaly (degrees C), 1/3/2019  
(white regions indicate sea-ice)



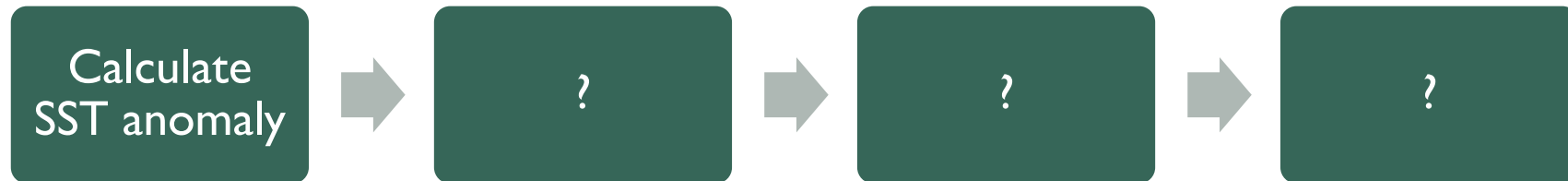


# WHAT DOES OUR DATA LOOK LIKE?

## BRAINSTORMING OUR NEXT UNIT

What is the recent climate in South-East Asia? How does it affect the ocean?

Data: **Global sea temperature and salinity 2000 - 2017**



# INDEXING

## Numpy arrays

```
A = [[1,2,3]
      [3,2,1]]
```

```
A[:,] =
```

```
A[0,2] =
```

## Pandas

```
A =
```

	Depth	Temp
1990	5	34
1991	5	22
1992	5	27

```
A['Temp'] =
```

```
A['Depth'][1991] =
```

## netCDF4

```
A.variables =
```

Time	Depth	Temp
numpy array	numpy array	numpy array
units	units	units

```
A.variables['Time'][:,] =
```

```
A.variables['Time'].units =
```