

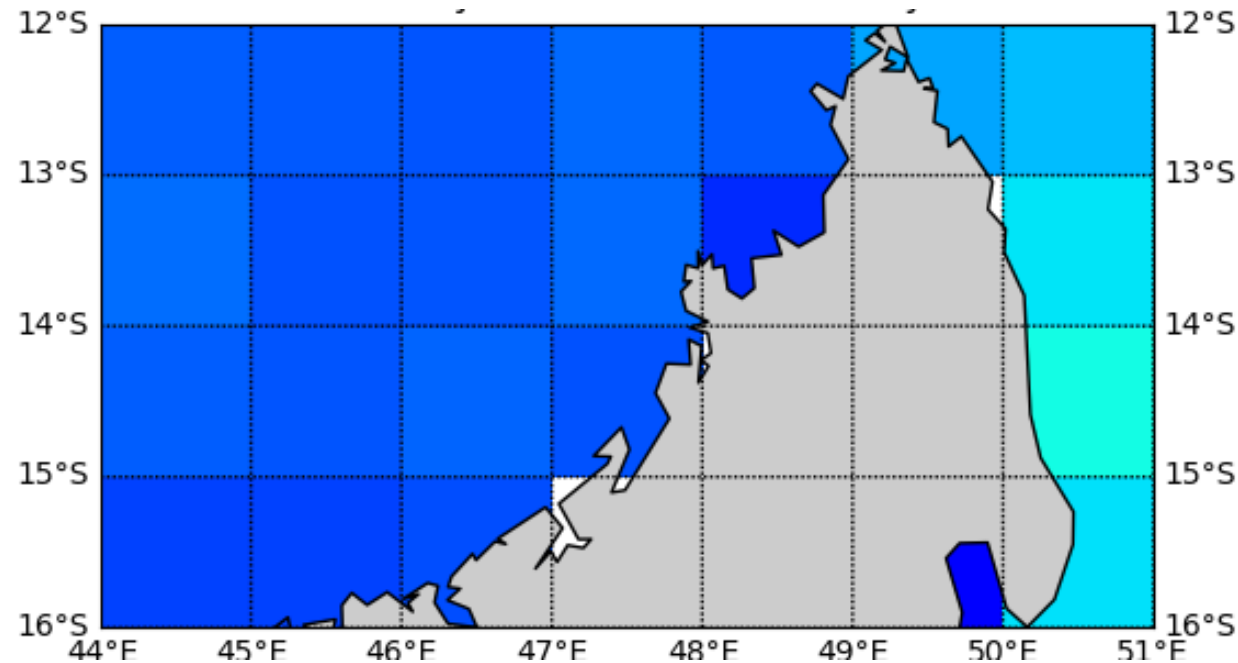
# Climatology study of wind, waves, current and sea level change in the North-West of Madagascar

Herilalaina Rasolonjatovo, DGM

11<sup>th</sup> and 12<sup>th</sup> February 2020, Antananarivo, Madagascar

# Region of interest

Region of interest : North-West part of Madagascar



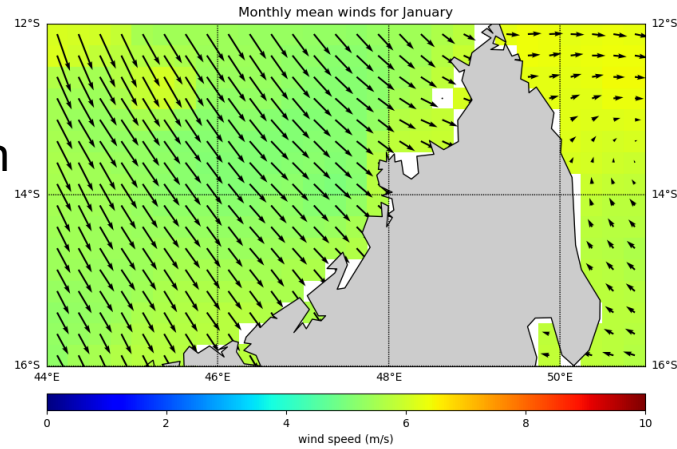
WHY ? Because DGM is planning to provide climate information to manage risk linked with climate variability and reduce the vulnerability of coastal and marines ecosystems (such as Mangrove,...)in this area.

# Parameters

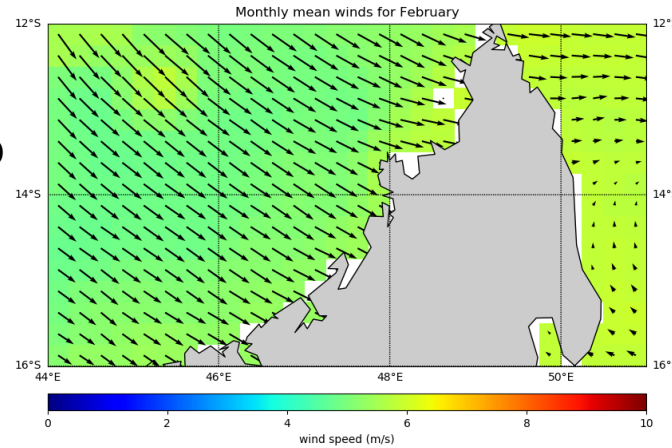
- Monthly mean of wind speed and direction(2007-2017)
- Monthly mean of surface current (2002-2016)
- Monthly mean and distribution of Significant Waves Height (SWH) (1991-2013)
- Sea level trend (2002-2016)

# Monthly climatology of wind direction and speed

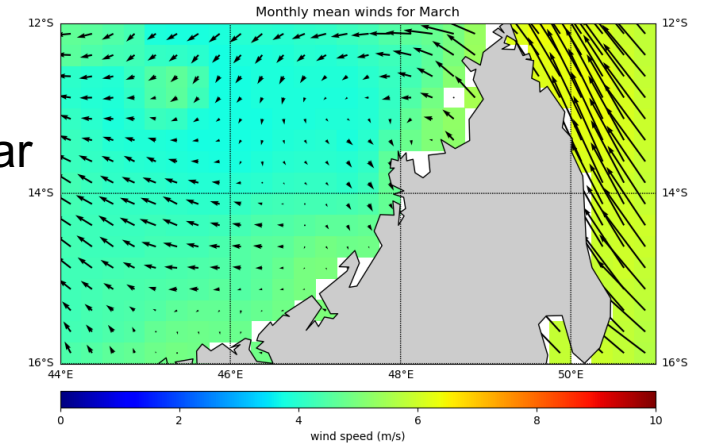
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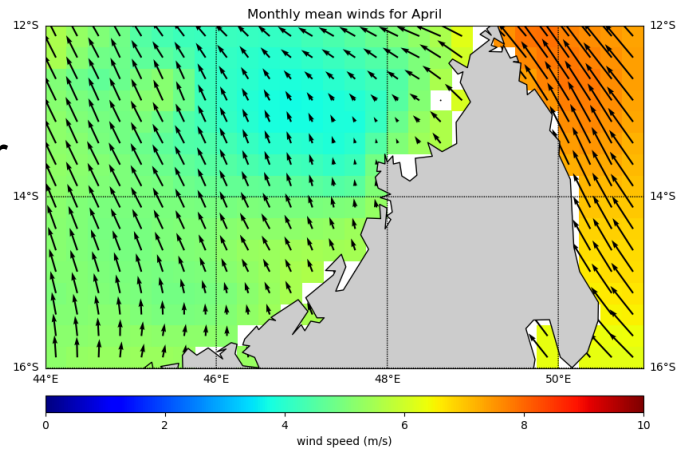
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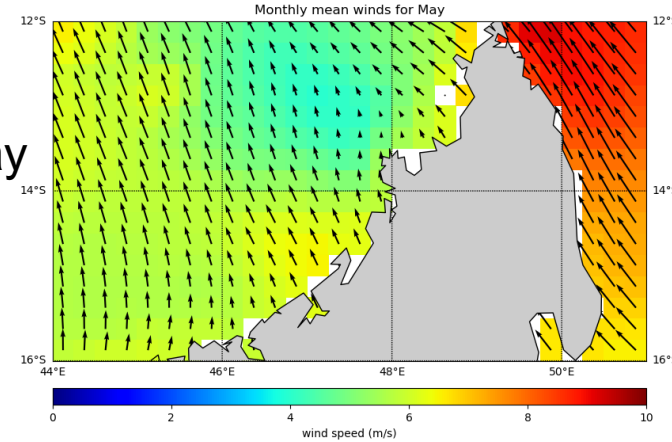
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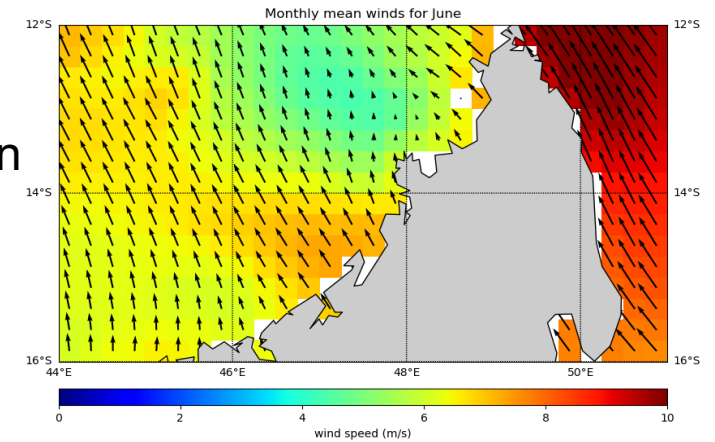
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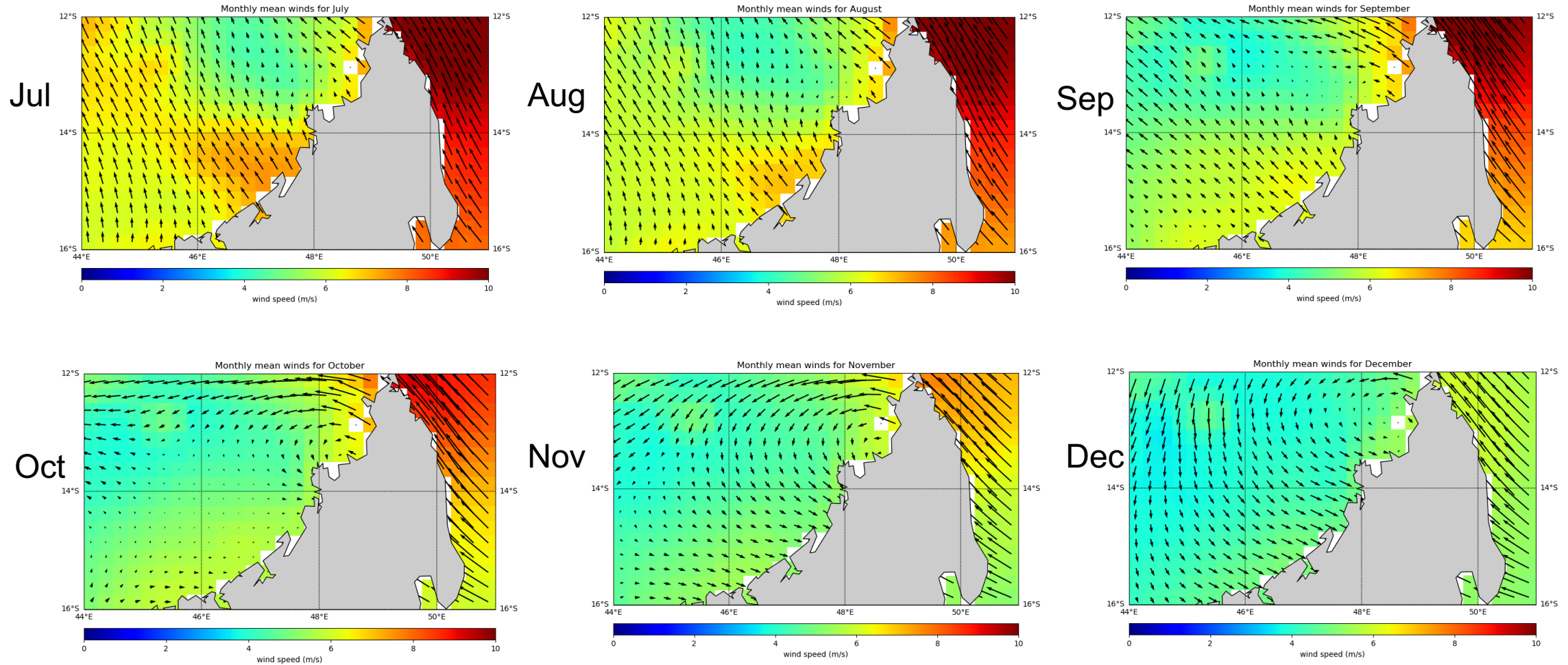


Jun

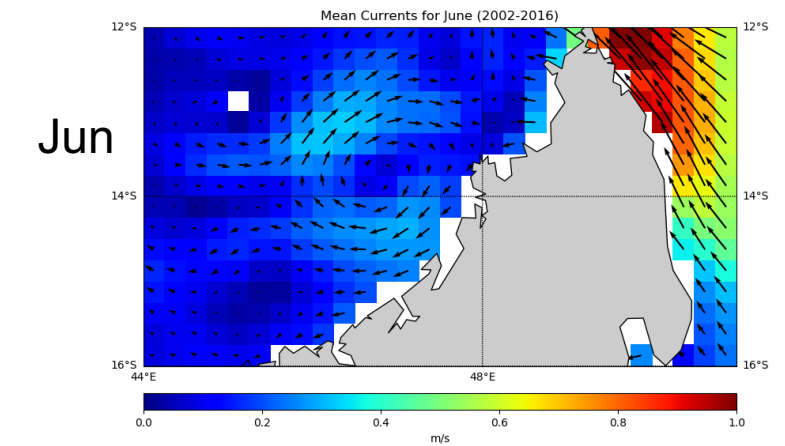
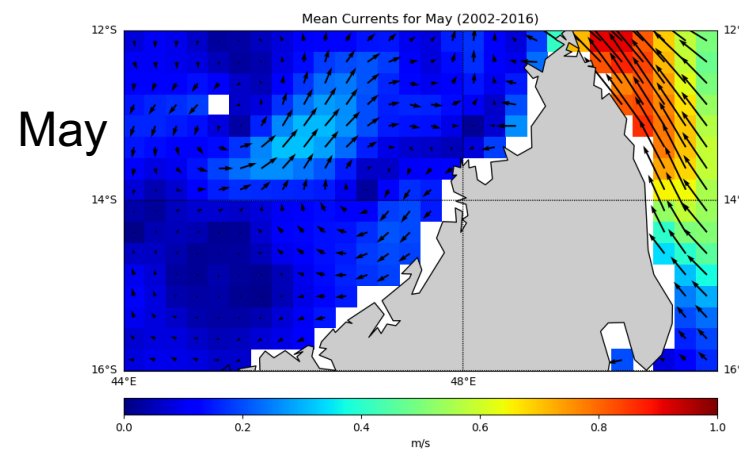
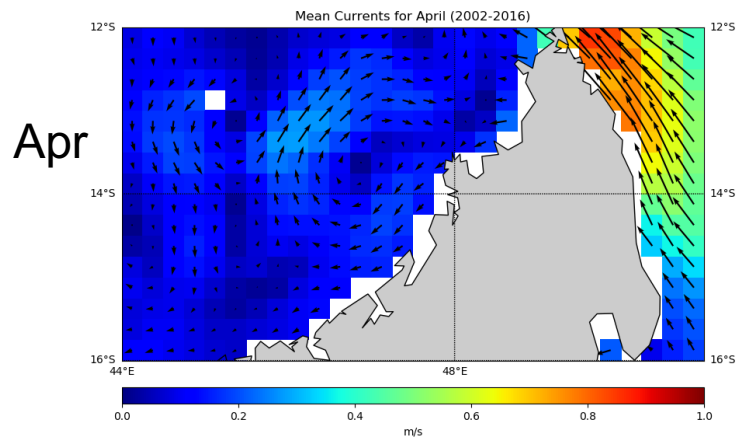
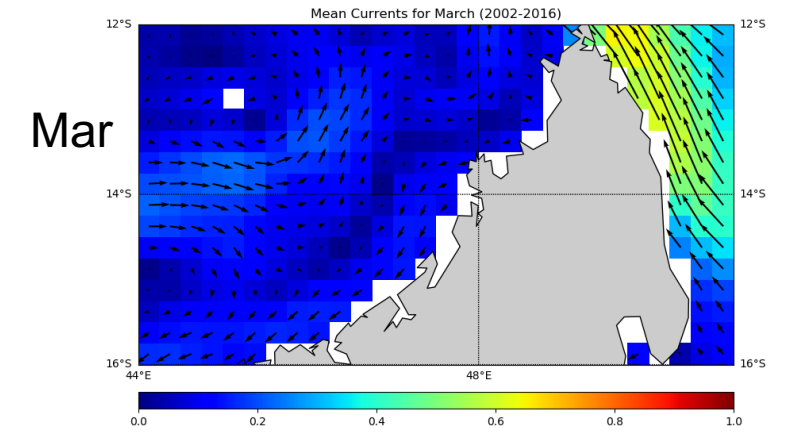
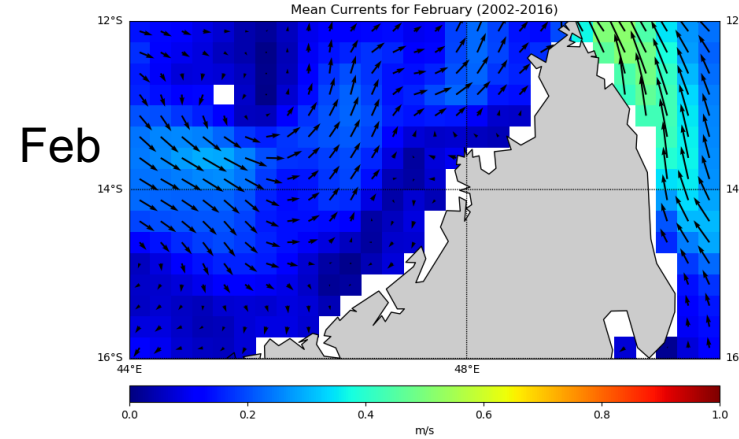
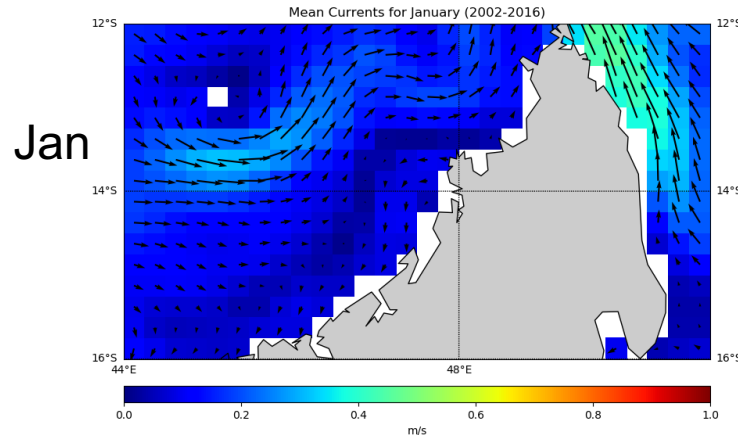




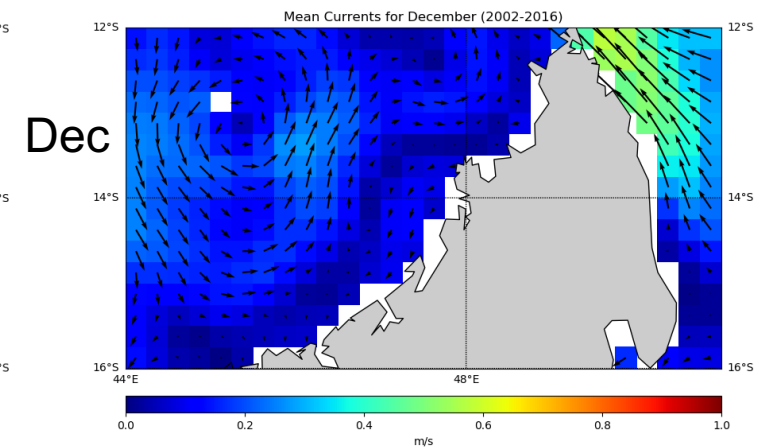
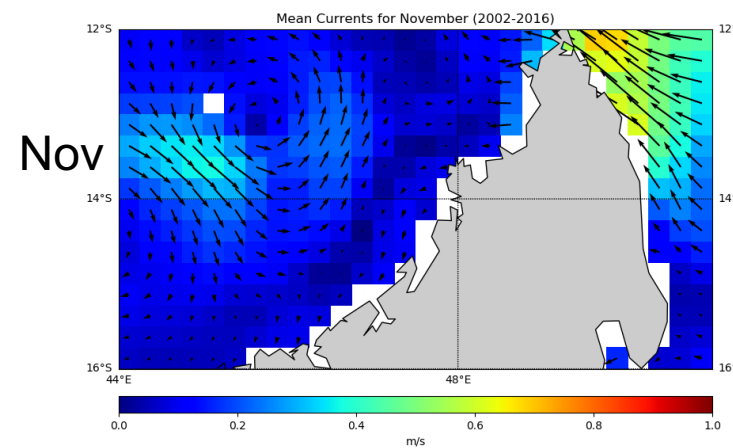
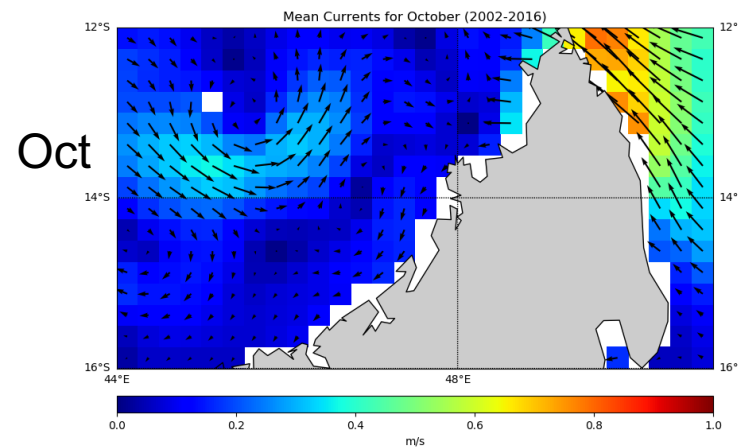
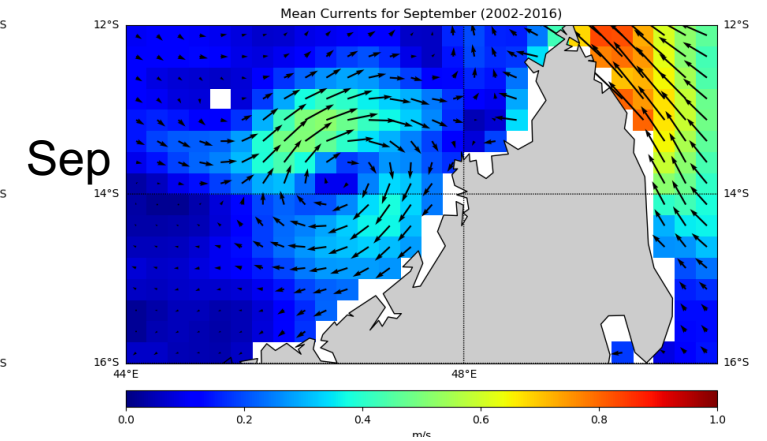
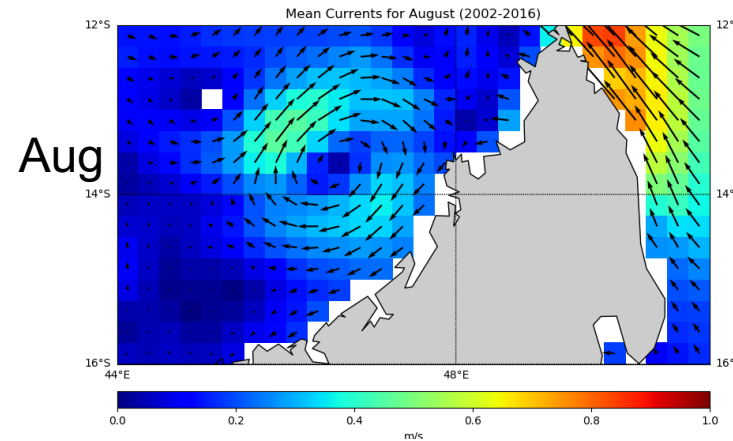
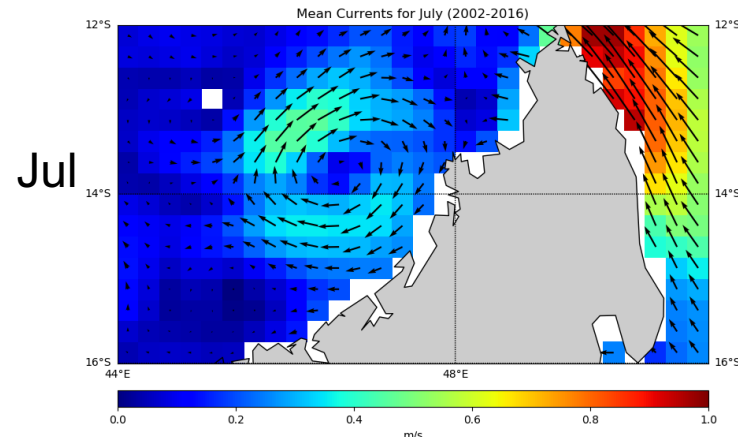
# Monthly climatology of wind direction and speed



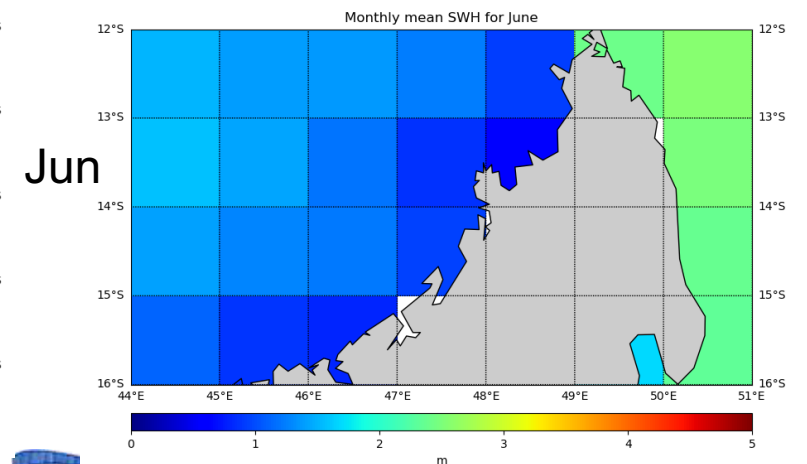
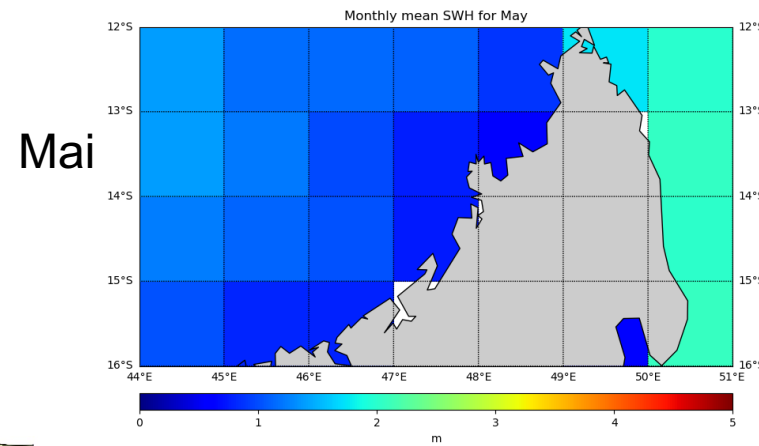
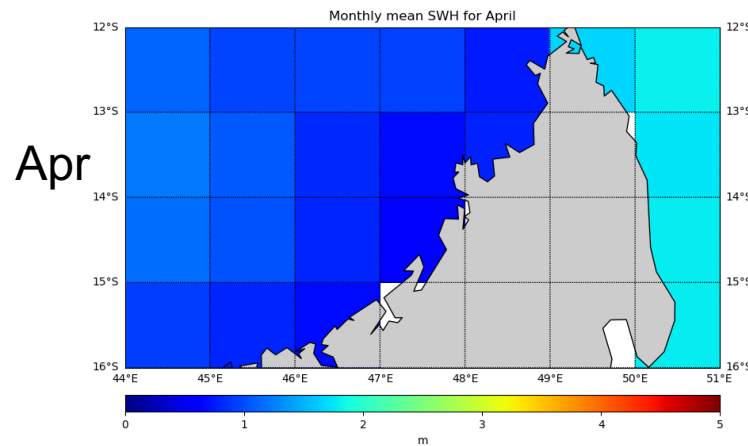
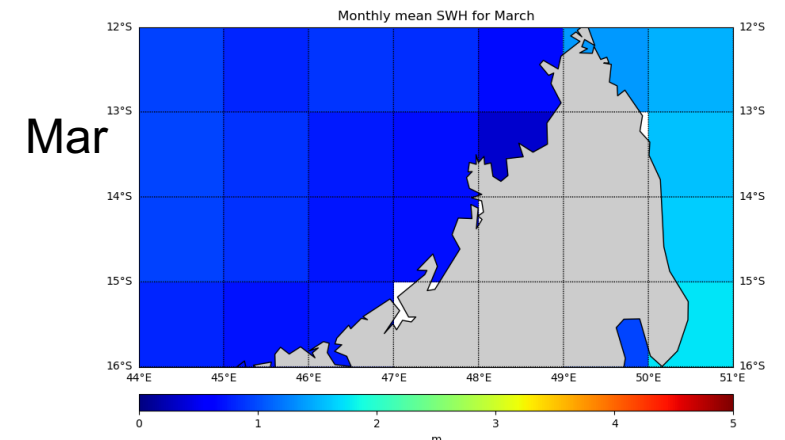
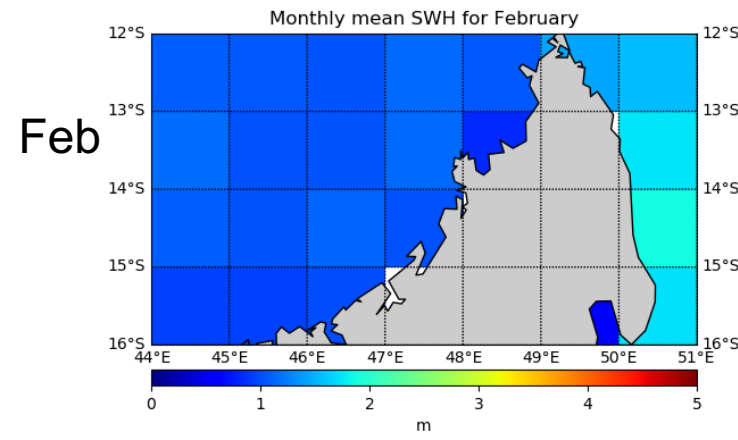
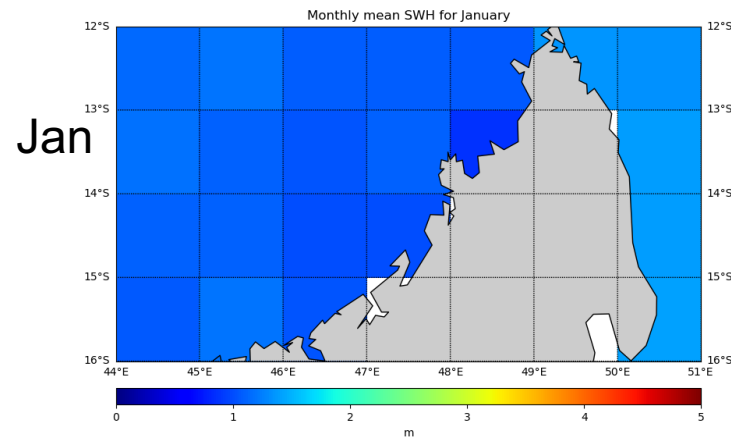
# Monthly climatology Currents



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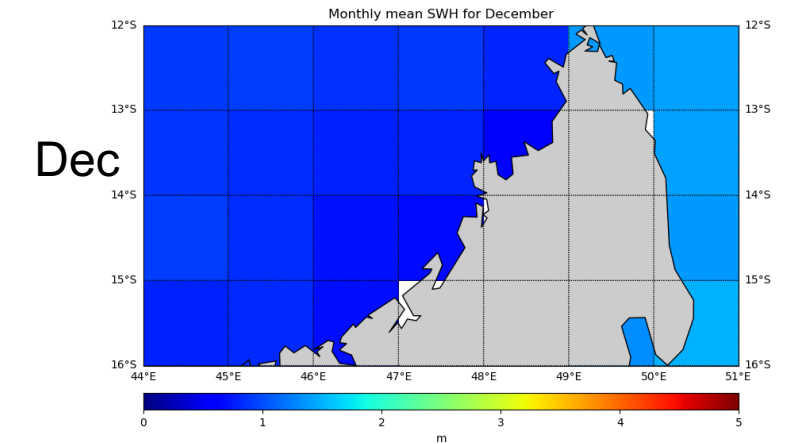
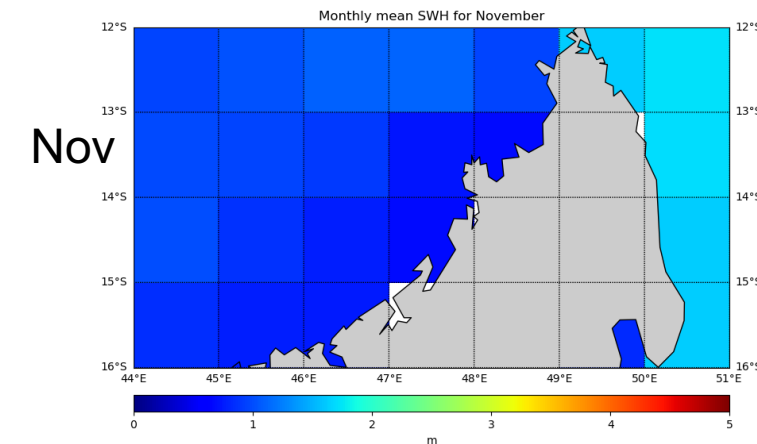
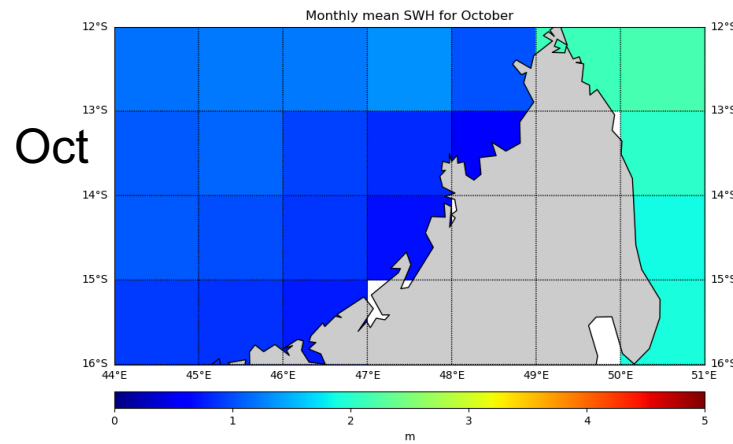
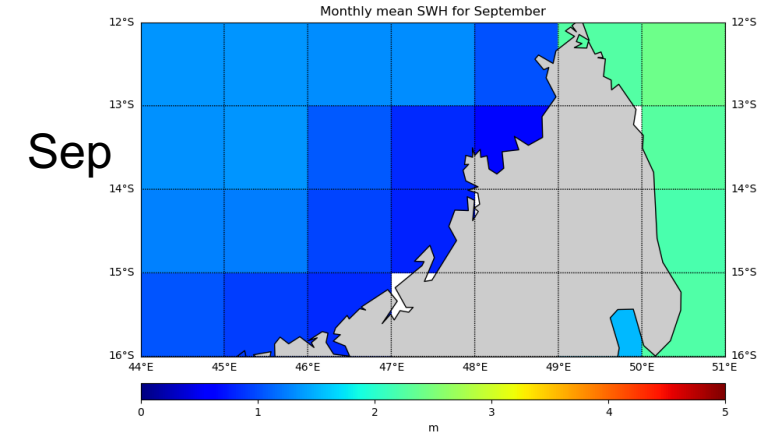
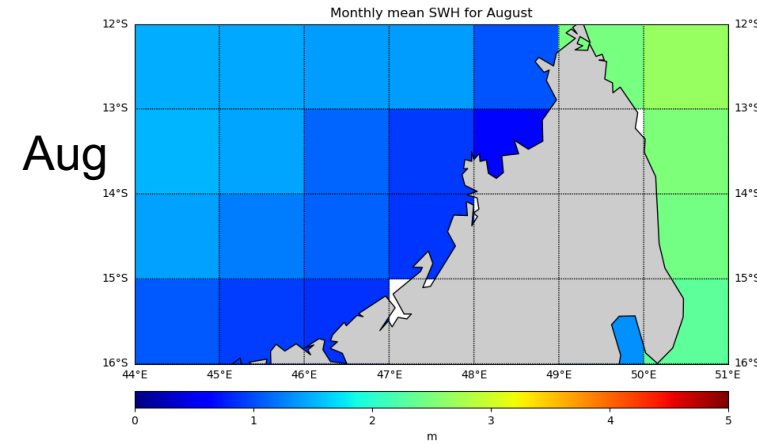
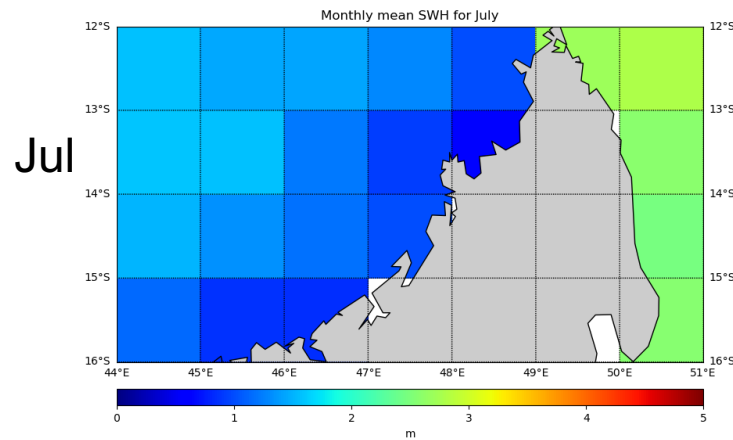


# Monthly climatology SWH



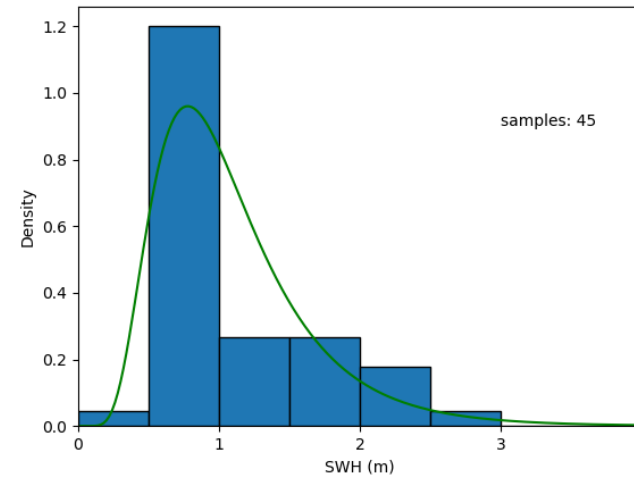


# Monthly climatology SWH

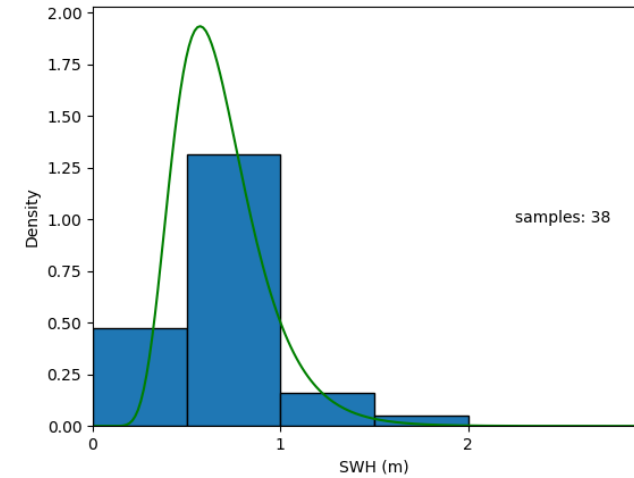


# Distribution of SWH

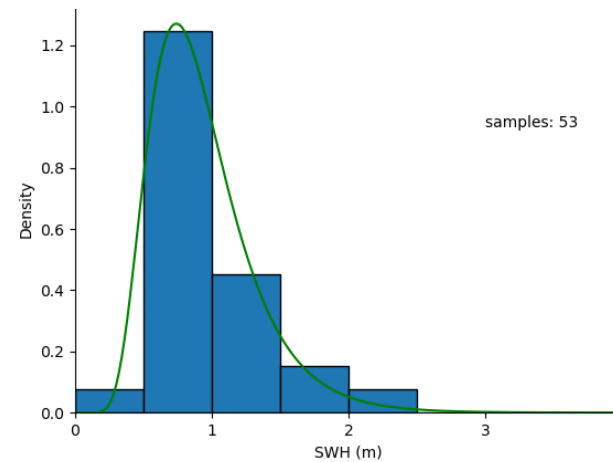
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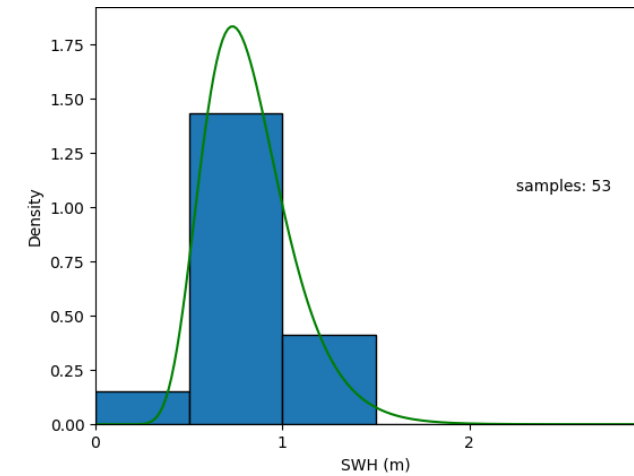
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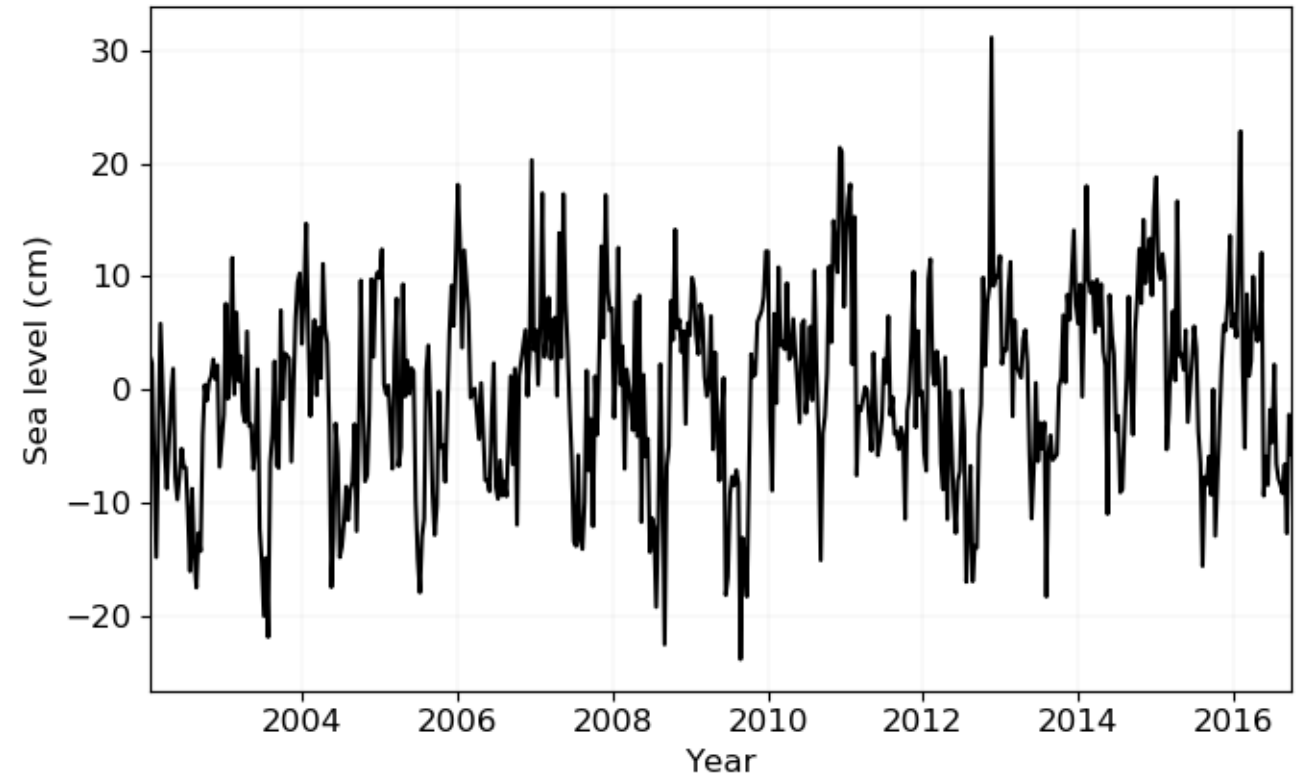
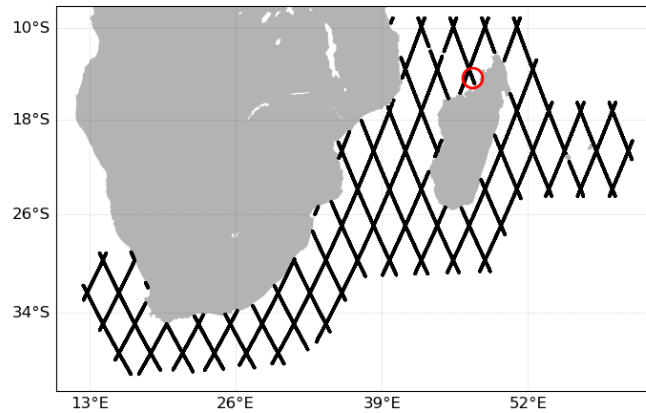
Jul



Oct



# Sea level change



# THANK YOU