

MONSOON ASSEMBLAGES

DRAWING INVENTORY

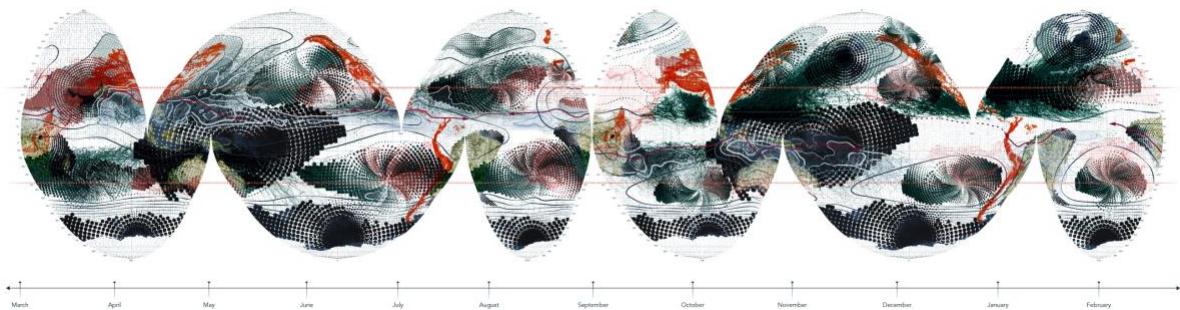
Christina Geros
2017 – 2021



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Monsoon Assemblages was a research project funded by the European Research Council (ERC) under the European Union's Horizon 2020 research and innovation programme (Grant Agreement No. 679873), 2016-2021.



TITLE: Global Monsoon: Atmosphere (and all unpacked related drawings)

FILE TYPE: JPEG (all)

RESOLUTION: 300

DATA REF:

ETOPO1 1 Arc-Minute Global Relief Model

NOAA National Geophysical Data Center

Amante, C. and Eakins, B.W., 2009, ETOPO1 1 Arc-Minute Global Relief Model: Procedures, Data Sources and Analysis. NOAA Technical Memorandum NESDIS NGDC-24. National Geophysical Data Center, NOAA. Doi: 10.7289/V5C8276M [05/12/2018]

<https://www.ngdc.noaa.gov/mgg/global/global.htm>

NASA Earth Observations

NASA Terra (EOS AM) and Aqua (EOS PM) Satellites [MODIS Instruments]

Data provided by the MODIS Atmosphere Science Team, NASA Goddard Flight Space Flight Center.

<https://neo.sci.gsfc.nasa.gov/>

Climate Forecast Systems v2 (CFSv2) – Operational Analysis

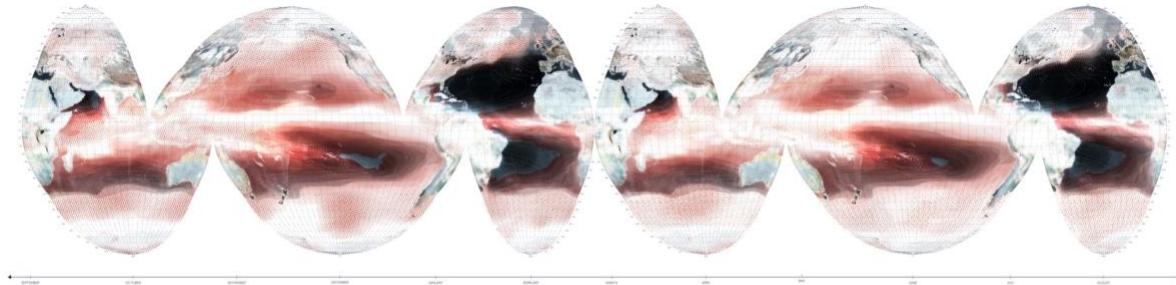
National Center for Environment Prediction (NCEP)

National Oceanic and Atmospheric Administration (NOAA)

Saha, S., et al., 2010: The NCEP Climate Forecast System Reanalysis. Bulletin of the American Meteorological Society, 91, 1015-1057, doi: 10.1175/2010BAMS3001.1

<http://cfs.ncep.noaa.gov/cfsv2.info/>

<https://www.ncdc.noaa.gov/data-access/model-data/model-datasets/climate-forecast-system-version2-cfsv2>

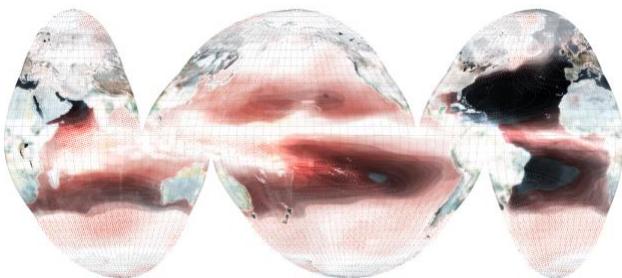


TITLE: Global Monsoon: Ocean - Salt

FILE TYPE: PDF, JPEG, TIFF

RESOLUTION: 300

DATA REF: Chen, G., Geng, D., 2019, "A 'mirror layer' of temperature and salinity in the ocean", *Climate Dynamics*, vol. 52, pp. 1-13; Nyadjro, E.S., Subrahmanyam, B., Murty, V.S.N., and Shriner, J.F., 2010, "Salt transport in the near-surface layer in the monsoon-influenced Indian Ocean using HYCOM", *Geophysical Research Letters*, vol. 37, L15603.



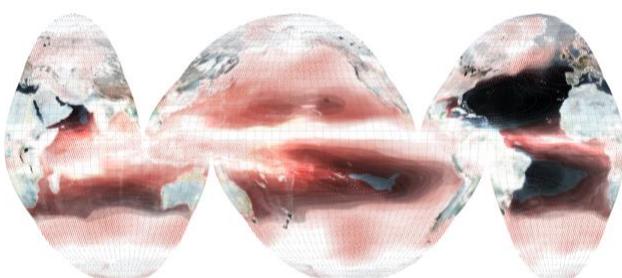
TITLE: Global Monsoon: Ocean – Salt (March – August, no annotation)

no annotation)

FILE TYPE: PNG

RESOLUTION: 300

DATA REF: Same as above.

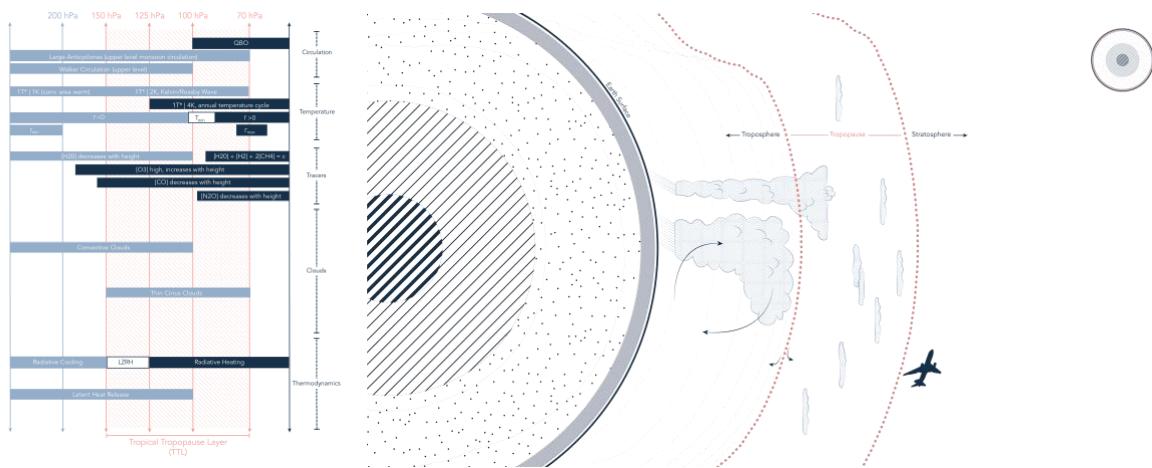


TITLE: Global Monsoon: Ocean – Salt (September – February, no annotation)

FILE TYPE: PNG

RESOLUTION: 300

DATA REF: Same as above.



TITLE: Height of Tropopause Diagrams (and all unpacked related drawings)

FILE TYPE: PNG (all), GIF (combined)

RESOLUTION: 300

DATA REF:

NASA Earth Observations

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<https://neo.sci.gsfc.nasa.gov/>

Climate Forecast Systems v2 (CFSv2) – Operational Analysis

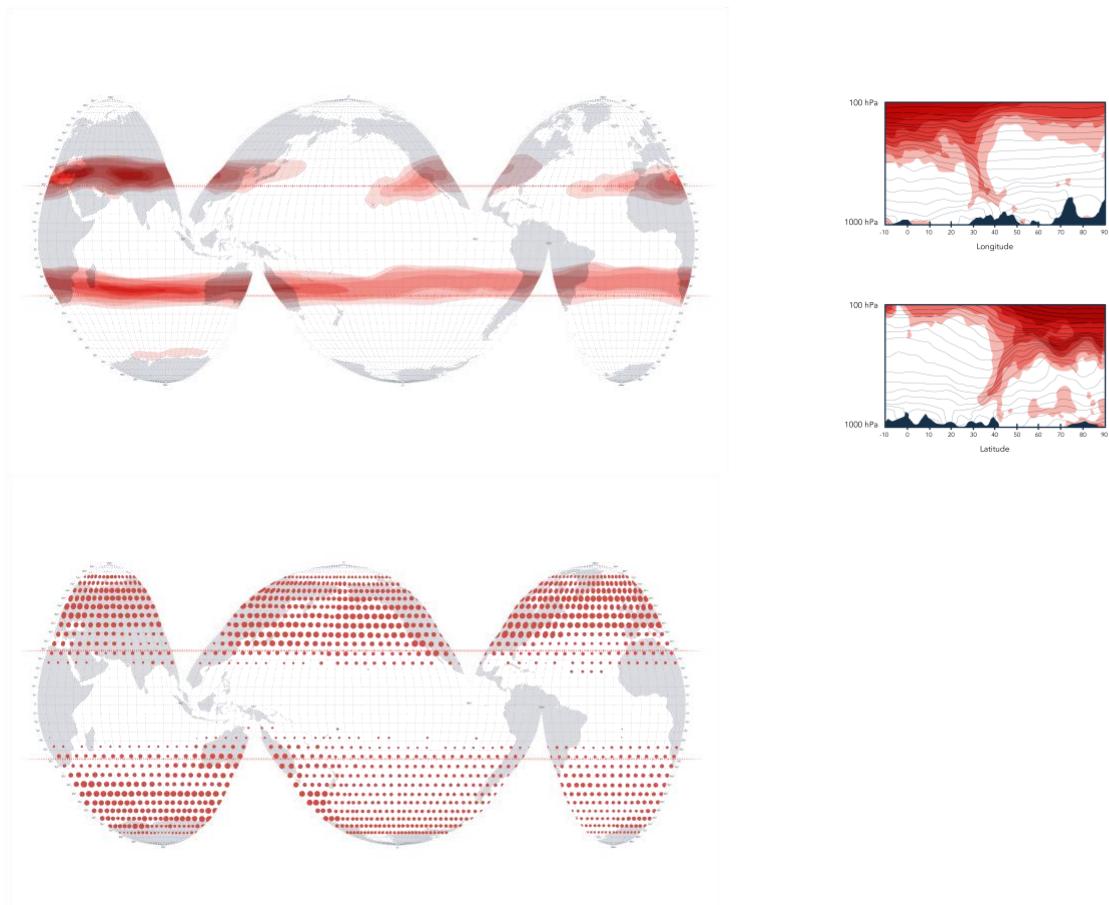
National Center for Environment Prediction (NCEP)

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<https://www.ncdc.noaa.gov/data-access/model-data/model-datasets/climate-forecast-system-version2-cfsv2>



TITLE: Tropopause Folds over Turkey

FILE TYPE: PNG (all)

RESOLUTION: 300

DATA REF: Tyrlis, E., et al., 2014, "On the Linkage between the Asian summer monsoon and tropopause fold activity over the eastern Mediterranean and the Middle East", *Journal of Geophysical Research: Atmospheres*, vol. 119, pp. 3202-3221.

NASA Earth Observations

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Data provided by the MODIS Atmosphere Science Team, NASA Goddard Flight Space Flight Center.

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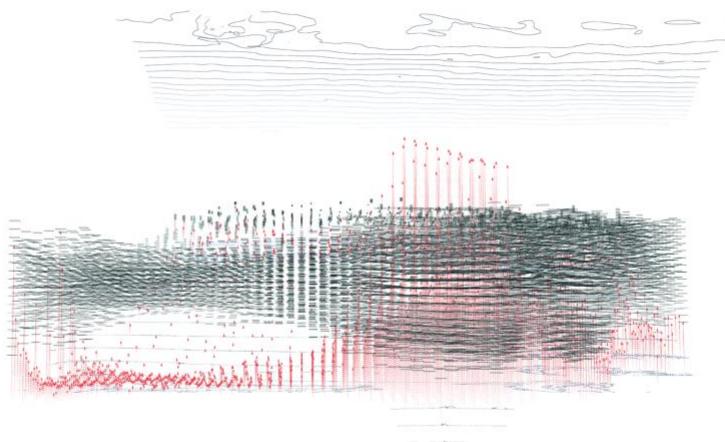
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<https://www.ncdc.noaa.gov/data-access/model-data/model-datasets/climate-forecast-system-version2-cfsv2>



TITLE: Moisture Layers over Bangladesh _ Longitudinal Perspective 1998 (i.e.: month of May, above)

FILE TYPE: PNG (all months separated)

RESOLUTION: 300

DATA REF:

NASA Earth Observations

NASA Terra (EOS AM) and Aqua (EOS PM) Satellites [MODIS Instruments]

Data provided by the MODIS Atmosphere Science Team, NASA Goddard Flight Space Flight Center.

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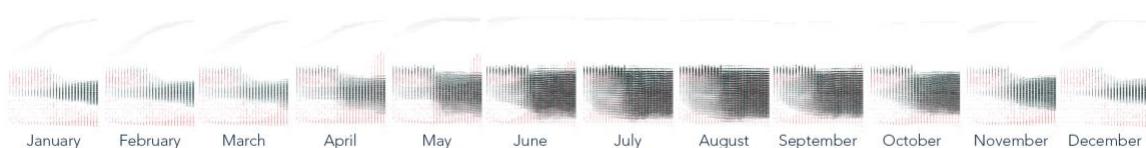
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Saha, S., et al., 2010: The NCEP Climate Forecast System Reanalysis. Bulletin of the American Meteorological Society, 91, 1015-1057, doi: 10.1175/2010BAMS3001.1

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<https://www.ncdc.noaa.gov/data-access/model-data/model-datasets/climate-forecast-system-version2-cfsv2>



TITLE: Moisture Layers over Bangladesh _ Transverse Section 1998

FILE TYPE: PNG (all months separated)

RESOLUTION: 300

DATA REF:

NASA Earth Observations

NASA Terra (EOS AM) and Aqua (EOS PM) Satellites [MODIS Instruments]

Data provided by the MODIS Atmosphere Science Team, NASA Goddard Flight Space Flight Center.

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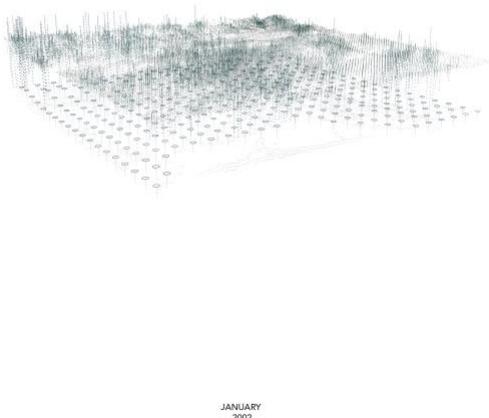
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Saha, S., et al., 2010: The NCEP Climate Forecast System Reanalysis. Bulletin of the American Meteorological Society, 91, 1015-1057, doi: 10.1175/2010BAMS3001.1

<http://cfs.ncep.noaa.gov/cfsv2.info/>

<https://www.ncdc.noaa.gov/data-access/model-data/model-datasets/climate-forecast-system-version2-cfsv2>



TITLE: Moisture Layers over Bangladesh_Perspective of Precipitable Cloud Cover 2002

FILE TYPE: PNG (all months separated), GIF

RESOLUTION: 300

DATA REF:

NASA Earth Observations

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Data provided by the MODIS Atmosphere Science Team, NASA Goddard Flight Space Flight Center.

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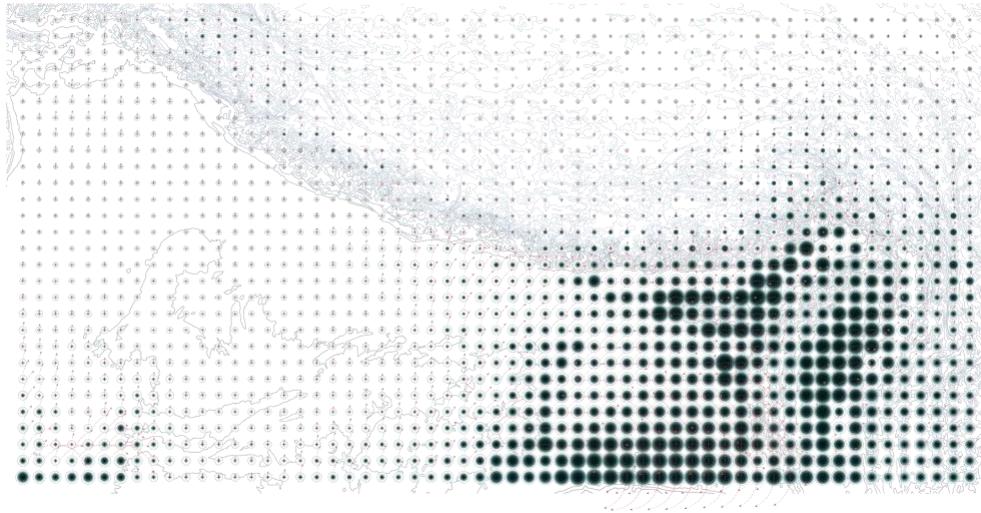
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<https://www.ncdc.noaa.gov/data-access/model-data/model-datasets/climate-forecast-system-version2-cfsv2>



TITLE: Moisture Layers over Bangladesh _Plan 1998 (i.e.: month of May above)

FILE TYPE: PNG (all months separated)

RESOLUTION: 300

DATA REF:

NASA Earth Observations

NASA Terra (EOS AM) and Aqua (EOS PM) Satellites [MODIS Instruments]

Data provided by the MODIS Atmosphere Science Team, NASA Goddard Flight Space Flight Center.

<https://neo.sci.gsfc.nasa.gov/>

Climate Forecast Systems v2 (CFSv2) – Operational Analysis

National Center for Environment Prediction (NCEP)

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Saha, S., et al., 2010: The NCEP Climate Forecast System Reanalysis. Bulletin of the American Meteorological Society, 91, 1015-1057, doi: 10.1175/2010BAMS3001.1

<http://cfs.ncep.noaa.gov/cfsv2.info/>

<https://www.ncdc.noaa.gov/data-access/model-data/model-datasets/climate-forecast-system-version2-cfsv2>



TITLE: Moisture Layers over Bangladesh_Plan 2002

FILE TYPE: PNG (all months separated), GIF

RESOLUTION: 300

DATA REF:

NASA Earth Observations

NASA Terra (EOS AM) and Aqua (EOS PM) Satellites [MODIS Instruments]

Data provided by the MODIS Atmosphere Science Team, NASA Goddard Flight Space Flight Center.

<https://neo.sci.gsfc.nasa.gov/>

Climate Forecast Systems v2 (CFSv2) – Operational Analysis

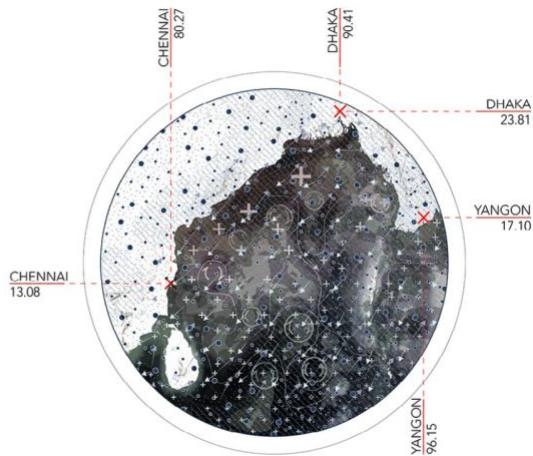
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Saha, S., et al., 2010: The NCEP Climate Forecast System Reanalysis. Bulletin of the American Meteorological Society, 91, 1015-1057, doi: 10.1175/2010BAMS3001.1

<http://cfs.ncep.noaa.gov/cfsv2.info/>

<https://www.ncdc.noaa.gov/data-access/model-data/model-datasets/climate-forecast-system-version2-cfsv2>



TITLE: MONASS Pendant, 2017

FILE TYPE: unknown

RESOLUTION: unknown

DATA REF:

NASA Earth Observations

NASA Terra (EOS AM) and Aqua (EOS PM) Satellites [MODIS Instruments]

Data provided by the MODIS Atmosphere Science Team, NASA Goddard Flight Space Flight Center.

<https://neo.sci.gsfc.nasa.gov/>

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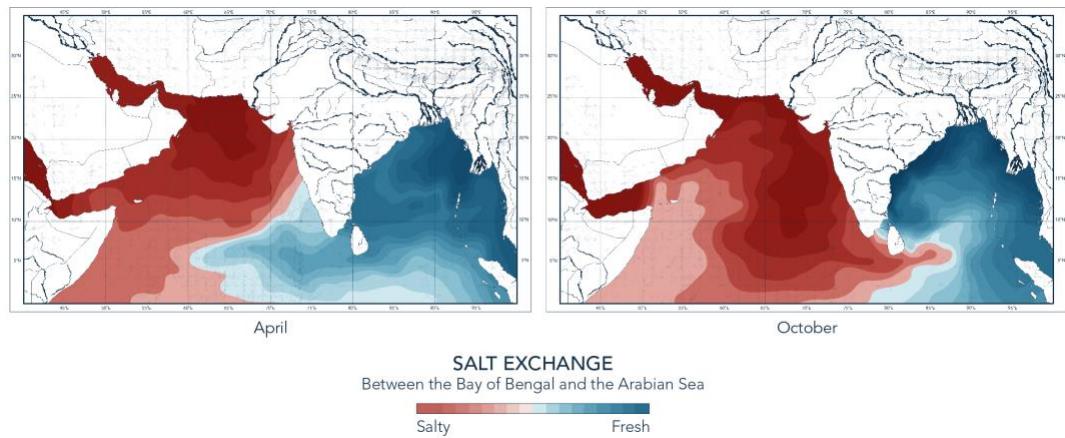
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Saha, S., et al., 2010: The NCEP Climate Forecast System Reanalysis. Bulletin of the American Meteorological Society, 91, 1015-1057, doi: 10.1175/2010BAMS3001.1

<http://cfs.ncep.noaa.gov/cfsv2.info/>

<https://www.ncdc.noaa.gov/data-access/model-data/model-datasets/climate-forecast-system-version2-cfsv2>



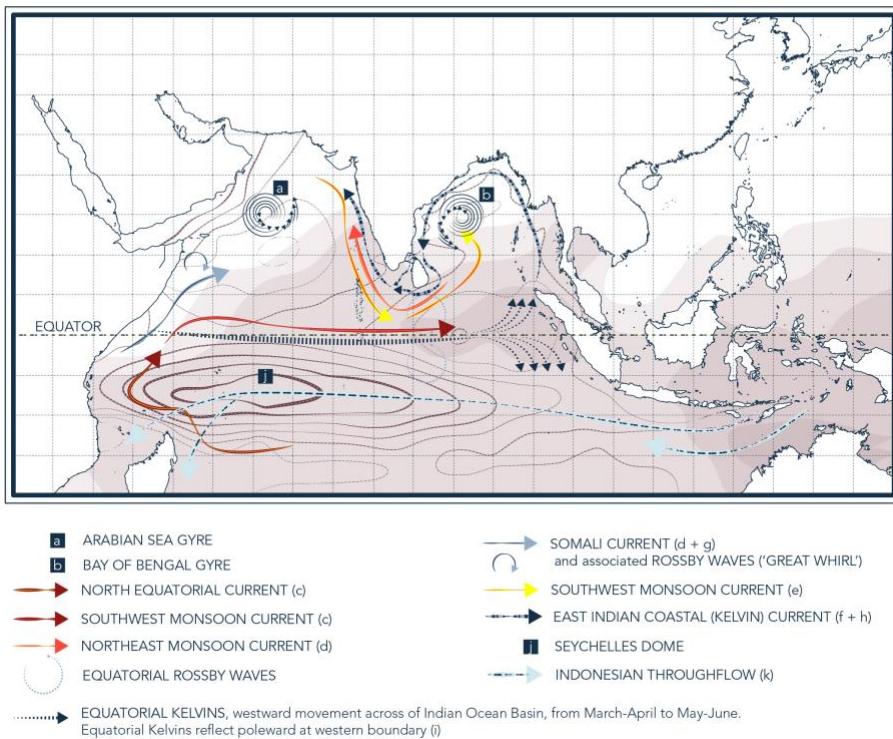
TITLE: Salt Exchange: Between the Bay of Bengal and Arabian Sea

FILE TYPE: JPEG, PDF, TIFF

RESOLUTION: 300

DATA REF: Yuan, X., Salama, Mhd. S., and Su, Z., 2018, "An Observational Perspective of Sea Surface Salinity in the Southwest Indian Ocean and Its Role in the South Asian Summer Monsoon", *Remote Sensing*, vol. 10, 1930; Vinayachandran, P.N., Nanjundiah, R.S., 2009, "Indian Ocean sea surface salinity variations in a couple model", *Climate Dynamics*, vol. 33, pp. 245-263; Jensen, T.G., 2001, "Arabian Sea and Bay of Bengal exchange of salt and tracers in an ocean model", *Geophysical Research Letters*, vol. 28, no. 20, pp. 3967-3970; Jensen, T.G., Wijesekera, H.W., Nyadjro, E.S. et al., 2016, "Modeling salinity exchanges between the equatorial Indian Ocean and the Bay of Bengal", *Oceanography*, vol. 29, no. 2, pp. 92-101.

SALT and TELECONNECTIONS
in the northern Indian Ocean

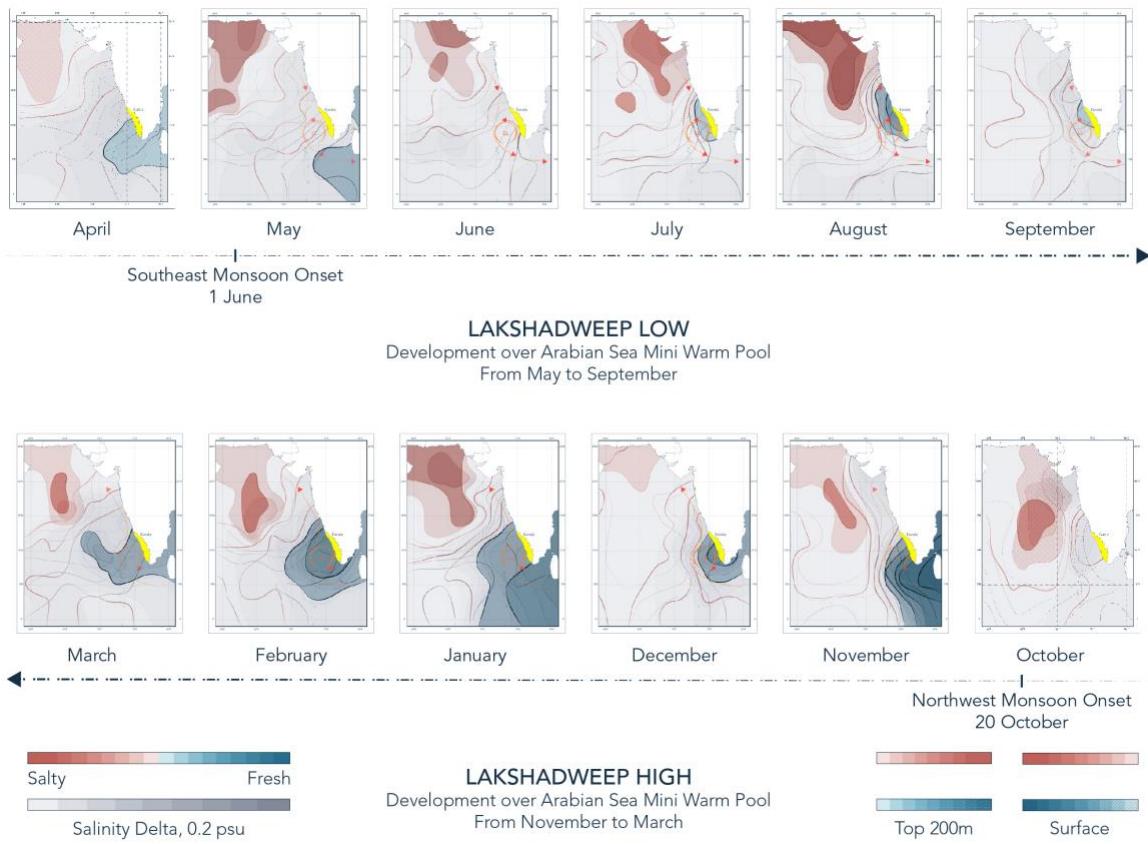


TITLE: Salt and Teleconnections in the northern Indian Ocean

FILE TYPE: JPEG, PDF, TIFF

RESOLUTION: 300

DATA REF: Vinayachandran, P.N., Jahfer, S., and Nanjundiah, R.S., 2015, "Impact of river runoff into the ocean on Indian summer monsoon", *Environmental Research Letters*, vol. 10; Nyadjro, S., Subrahmanyam, B., Murty, V.S.N., and Shriver, J.F., 2012, "The role of salinity on the dynamics of the Arabian Sea mini warm pool", *Journal of Geophysical Research*, vol. 117; Vinayachandran, P.N., Kagimoto, T., Masumoto, Y., Chauhan, P. et al., 2005, "Bifurcation of the East India Coastal Current east of Sri Lanka", *Geophysical Research Letters*, vol. 32, L15606; Li, Y., Han, W., and Lee, T., 2015, "Intraseasonal sea surface salinity variability in the equatorial Indo-Pacific Ocean induced by Madden-Julian oscillations", *Journal of Geophysical Research: Oceans*, vol. 120, pp. 2233-2258; Yokoi, T. and Tozuka, T., 2008, "Seasonal Variation of the Seychelles Dome", *Journal of Climate*, vol. 21, pp. 3740-3754; Yokoi, T., Tozuka, T., and Yamagata, T., 2011, "Seasonal and interannual Variation of the SST above the Seychelles Dome", *Journal of Climate*, vol. 25, pp. 800-814; D'Addezio, J. et al., 2015, "Seasonal Variability of Salinity and Salt Transport in the Northern Indian Ocean", *Journal of Physical Oceanography*, vol. 45, pp. 1947-1966.

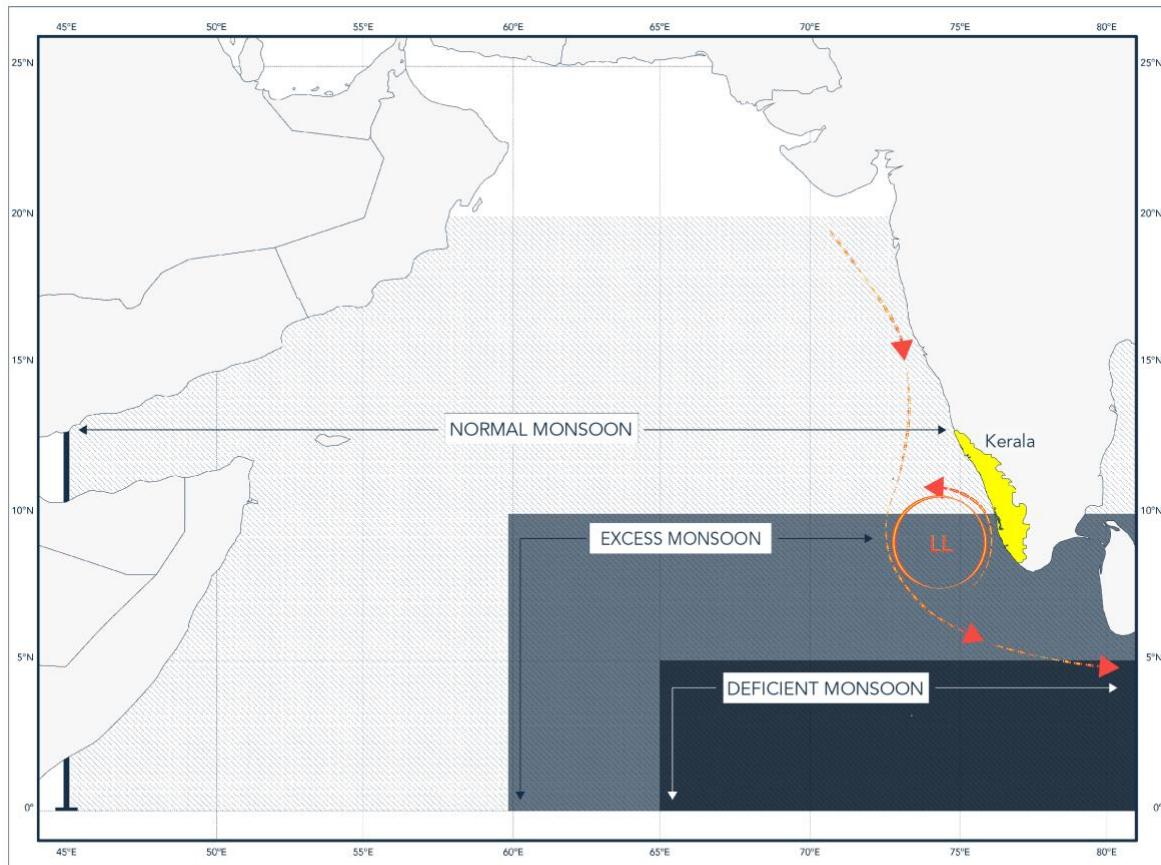


TITLE: Lakshadweep and AS Mini Warm Pool Development (horizontal and vertical orientations in folder)

FILE TYPE: JPEG, PDF, TIFF, MP4, GIF

RESOLUTION: 300

DATA REF: Fasullo, J. and Webster, P., 2003, "A Hydrological Definition of Indian Monsoon Onset and Withdrawal", *Journal of Climate*, vol. 16, pp. 3200-3211.



FORECASTING MONSOON INTENSITY

Expansion of Fresh Water Influx
from Bay of Bengal into the Arabian Sea

TITLE: Forecasting Intensity

FILE TYPE: JPEG, PDF, TIFF

RESOLUTION: 300

DATA REF: Roman-Stork, H.L., Subrahmanyam, B., and Murty V.S.N., 2020, "The Role of Salinity in the Southeastern Arabian Sea in Determining Monsoon Onset and Strength", *Journal of Geophysical Research: Oceans*, vol. 125.