gcmfaces analysis of ECCO V4, Release 4 (1992-2017)

September 5, 2019

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This document contains a set of analysis plots for ECCO V4r4, covering the time period 1992-2017.
In the cost-related plots, the area-scaling factor (gamma) and the other spatial
scaling factor have been removed in computing the costs.
The plots are generated using the Matlab analysis toolbox gcmfaces
(http://wwwcvs.mitgcm.org/viewvc/MITgcm/MITgcm_contrib/gael/matlab_class/gcmfaces.pdf?view=co).
Although not exhaustive, this document provides a convenient visual description
of the run for users.

fit to in situ data

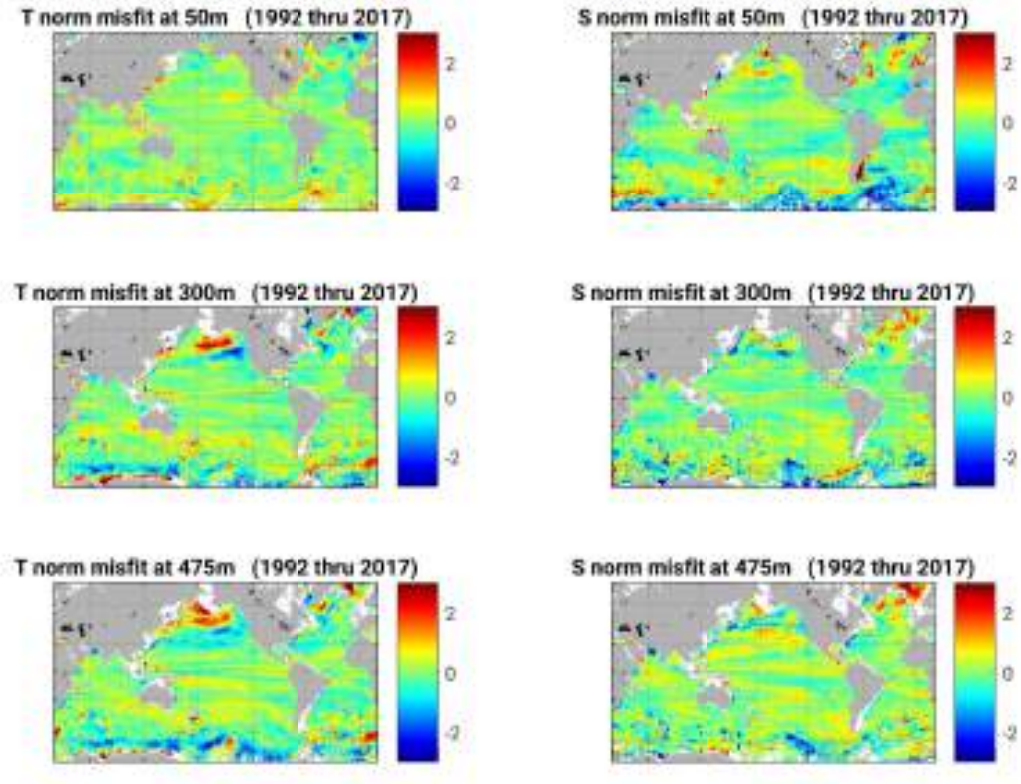


Figure : Time mean normalized misfit $(model - data)/sigma$ for in situ profiles, at depths (rows), for T (left) and S (right).

fit to in situ data

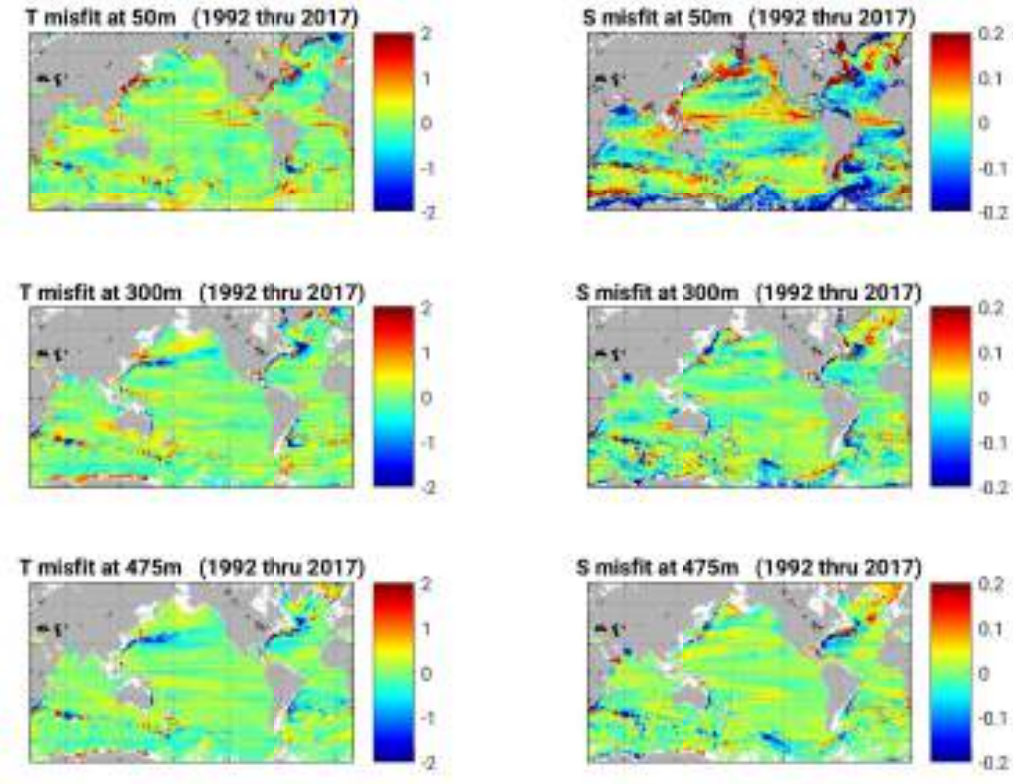


Figure : Time mean misfit (*model* – *data*) for in situ profiles, at depths (rows), for T (left; K) and S (right; in psu).

fit to in situ data

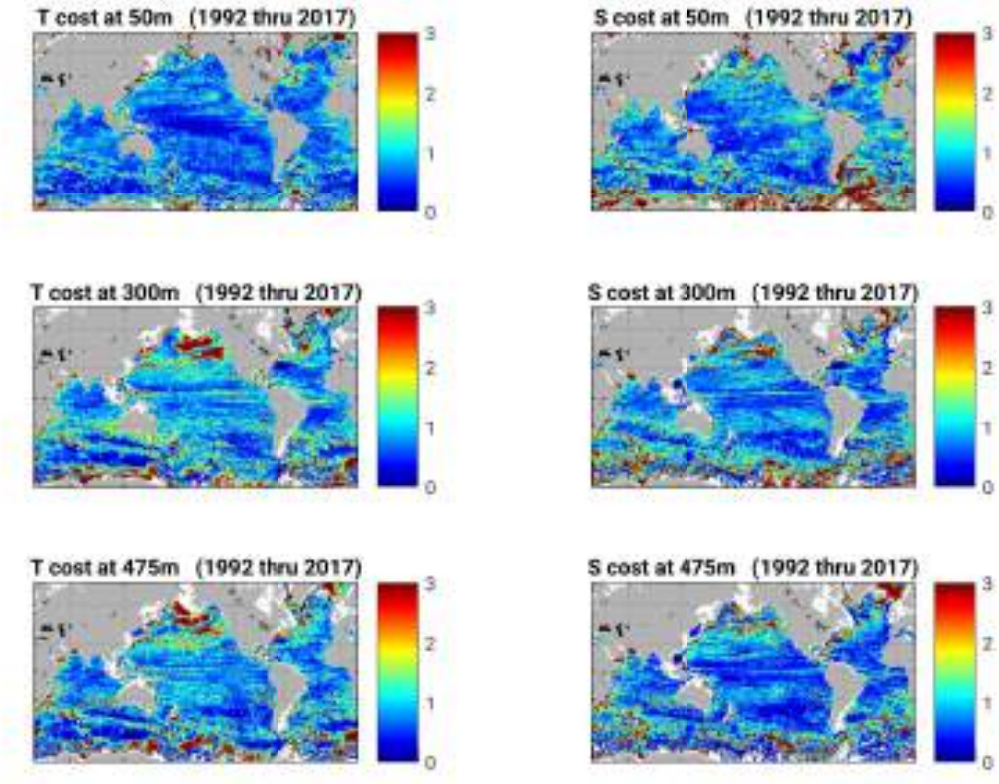
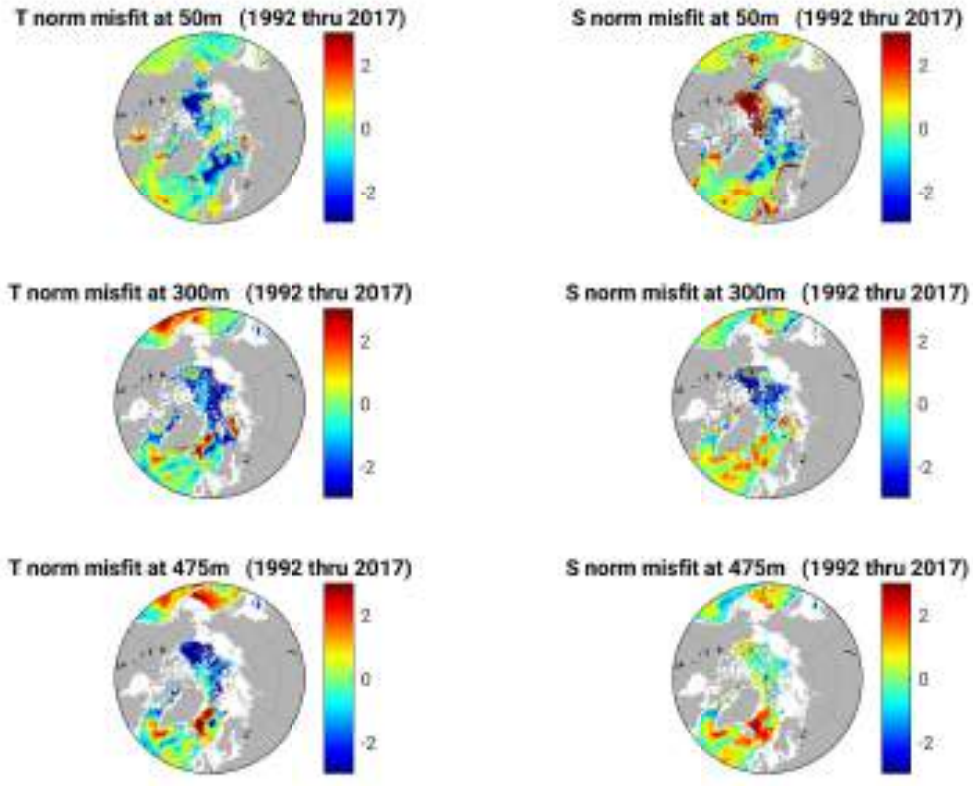


Figure : Time mean cost $(model - data)^2/sigma^2$ for in situ profiles, at depths (rows), for T (left) and S (right).

fit to in situ data



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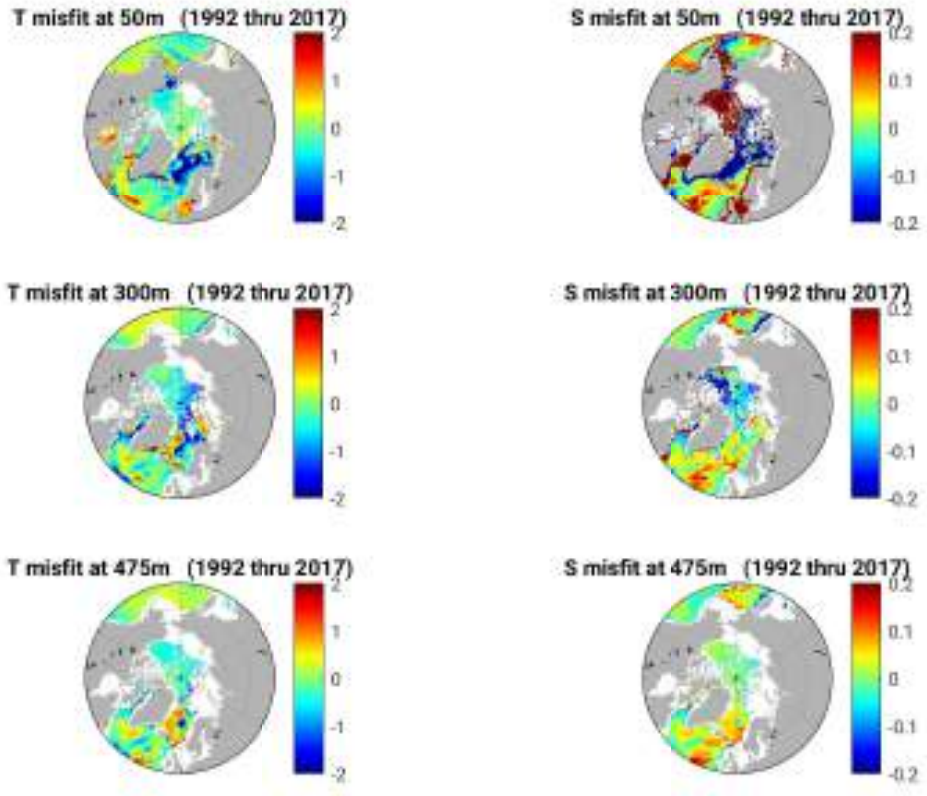

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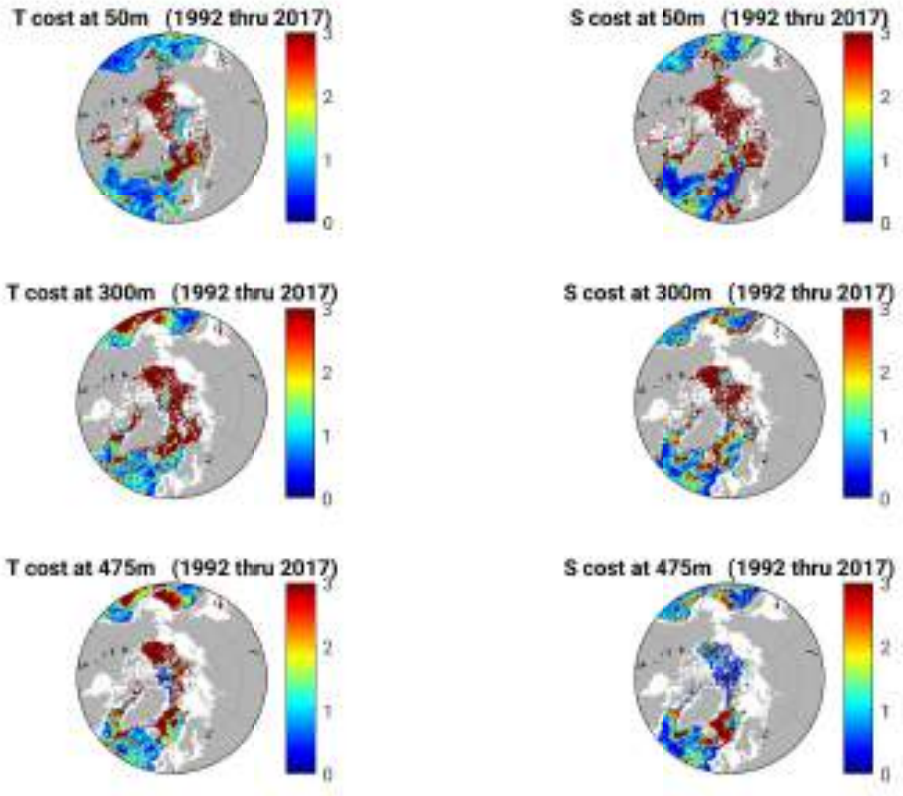
fit to in situ data



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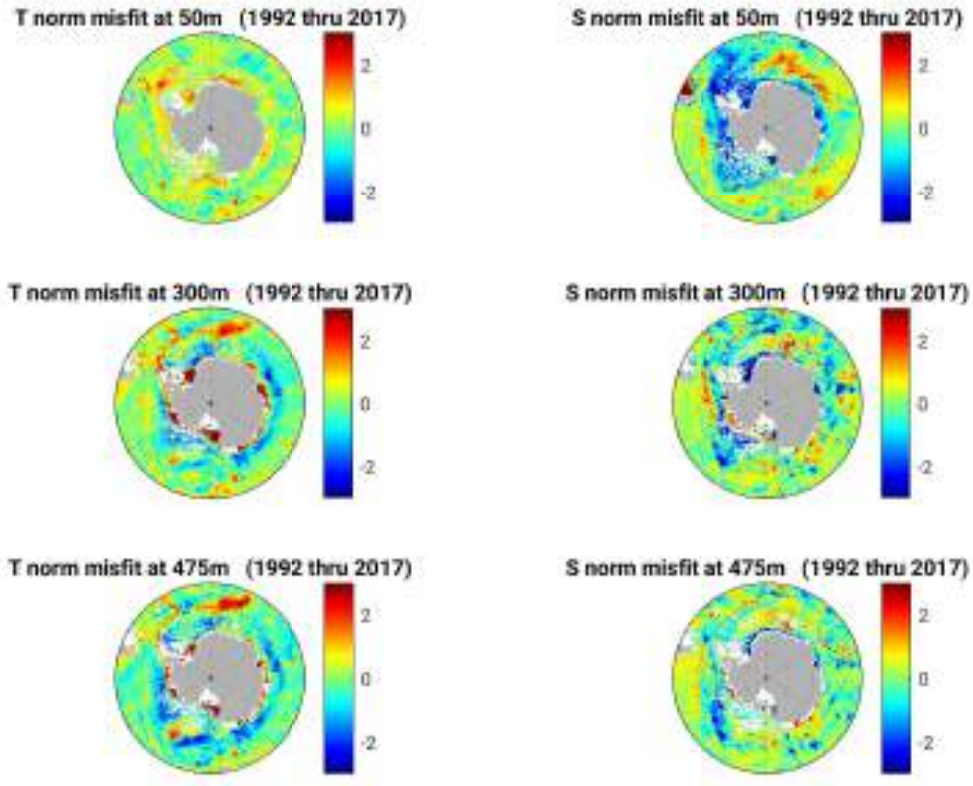

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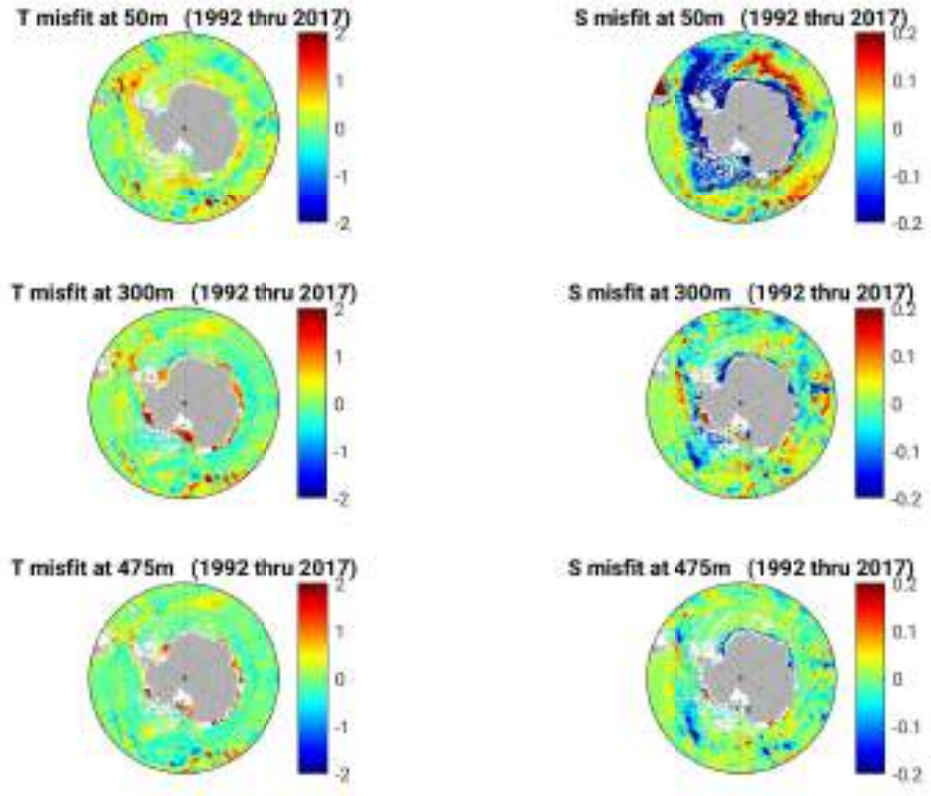

Figure : Time mean misfit (*model* – *data*) for in situ profiles, at depths (rows), for T (left; K) and S (right; in psu).

fit to in situ data

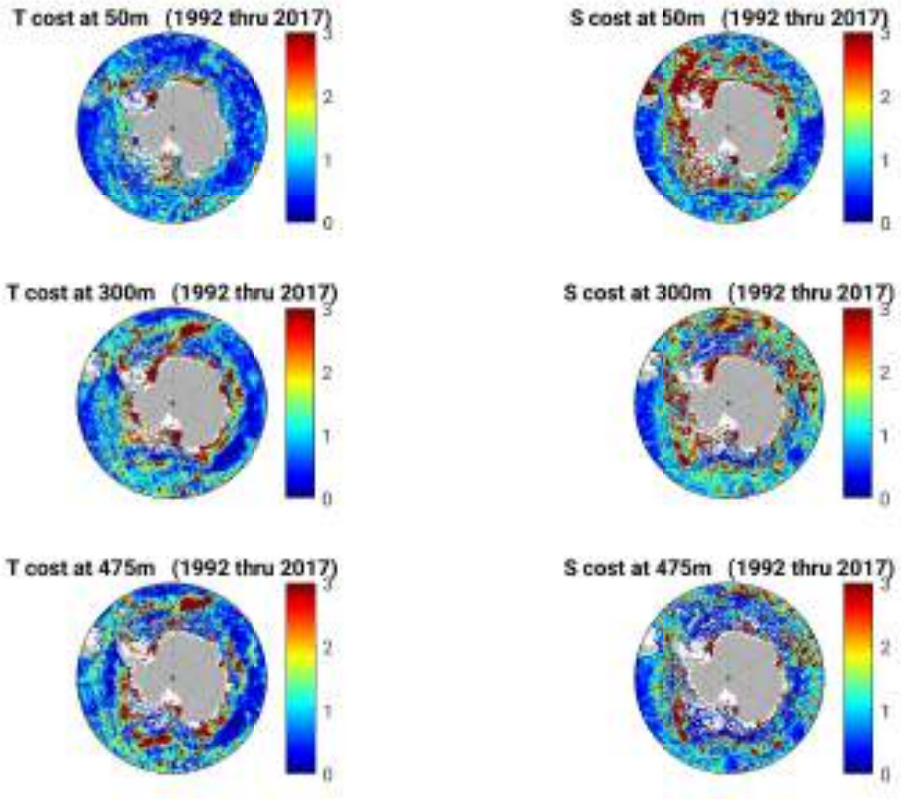

Figure : Time mean cost $(model - data)^2/sigma^2$ for in situ profiles, at depths (rows), for T (left) and S (right).

fit to altimeter data (RADS)

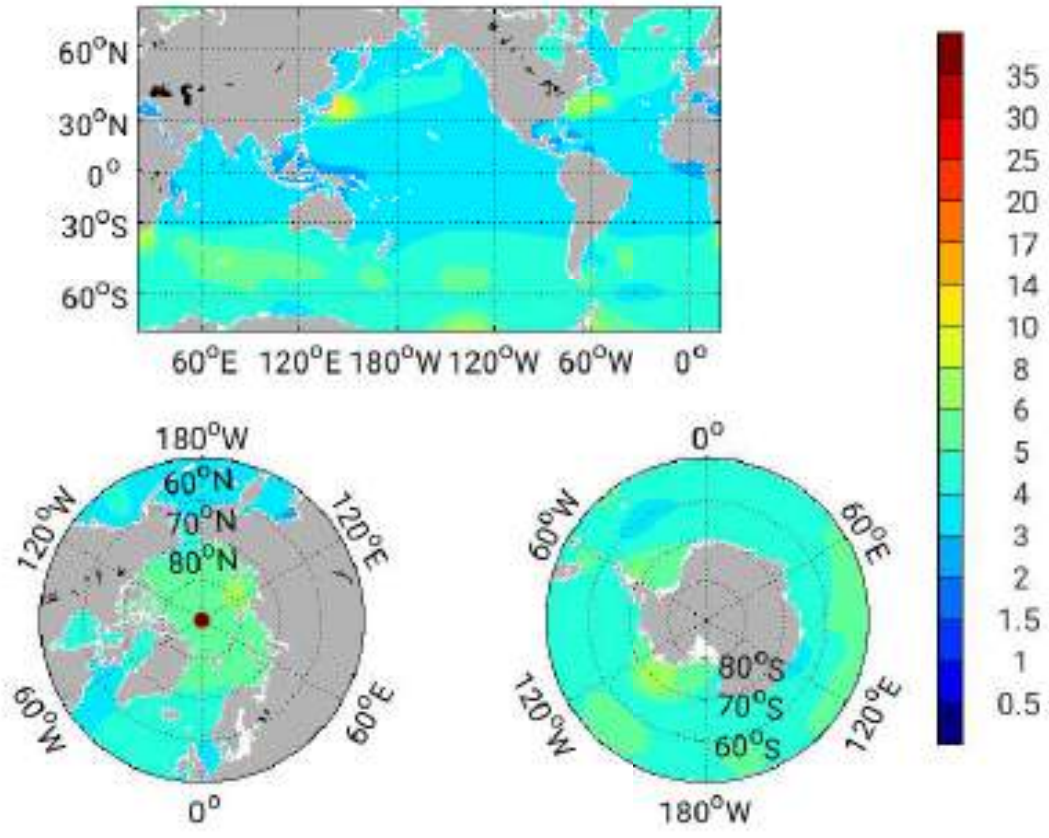

Figure : Mean Dynamic Topography Prior Uncertainty (cm)

fit to altimeter data (RADS)

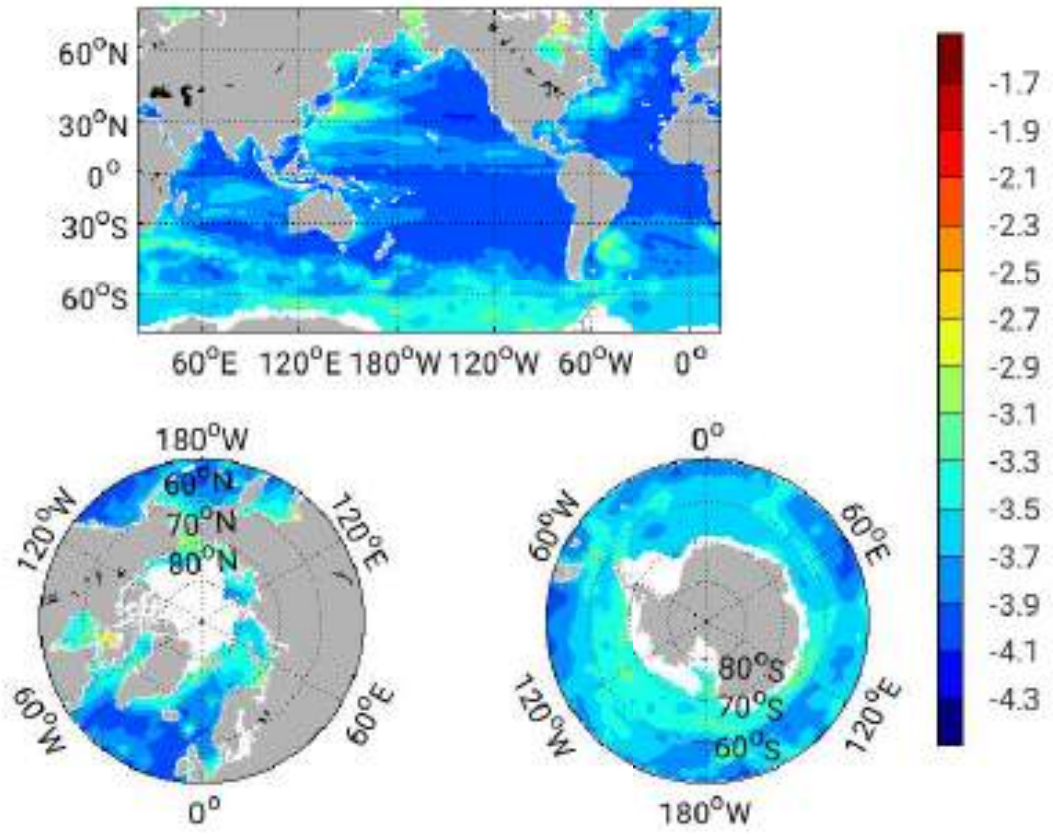

Figure : Sea Level Anomaly, Large Scale: log(prior error variance) (m^2)

fit to altimeter data (RADS)

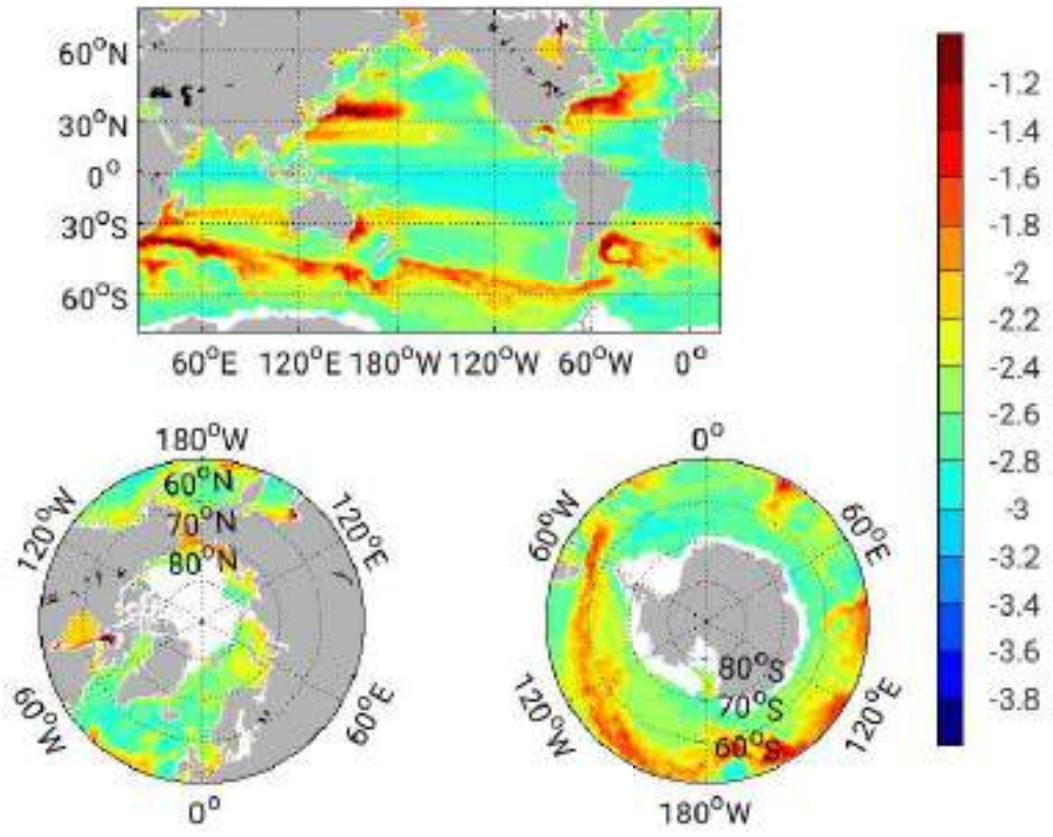

Figure : Sea Level Anomaly, Pointwise: log(prior error variance) (m^2)

fit to altimeter data (RADS)

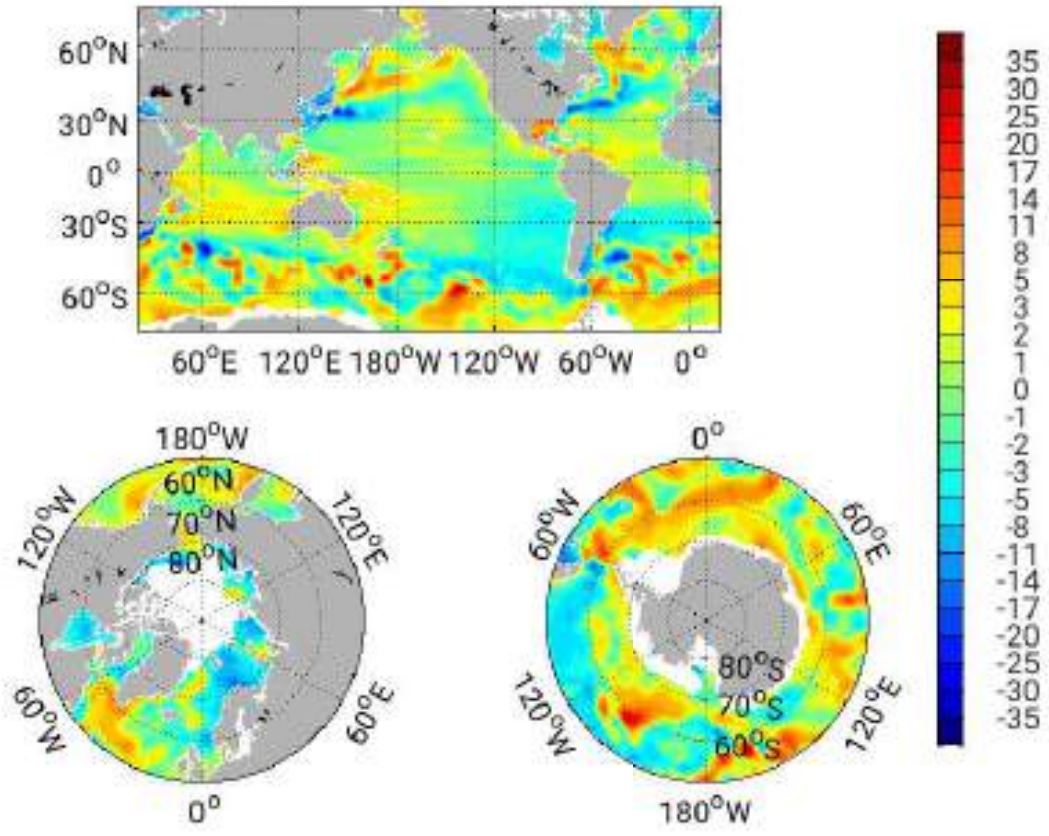

Figure : Mean Dynamic Topography Misfit (cm)

fit to altimeter data (RADS)

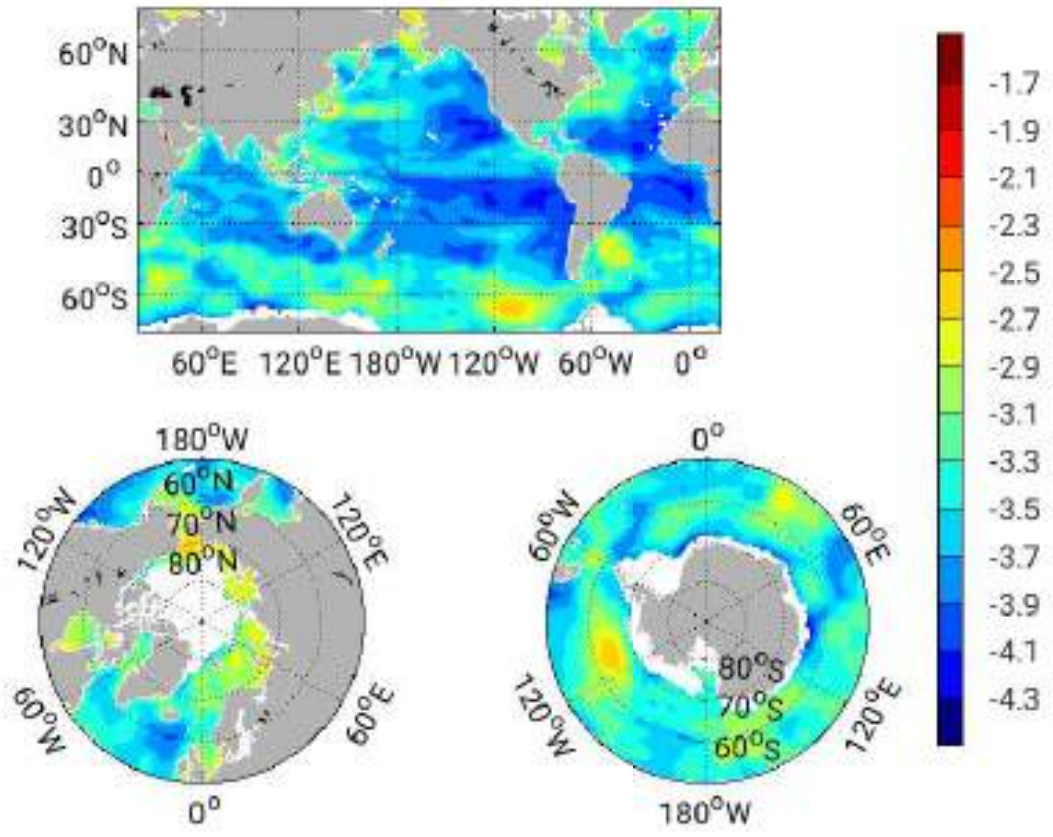

Figure : Sea Level Anomaly, Large Scale: Modeled-Data log(variance) (m^2)

fit to altimeter data (RADS)

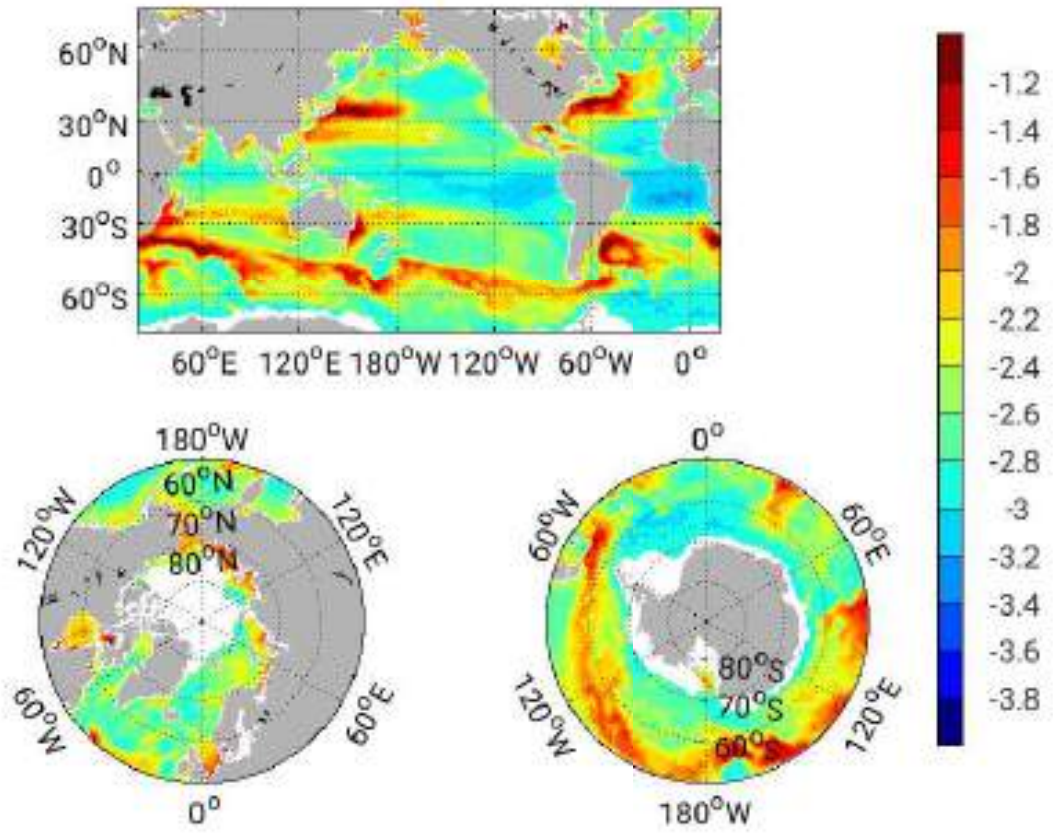

Figure : Sea Level Anomaly, Pointwise: Modeled-Data log(variance) (m^2)

fit to altimeter data (RADS)

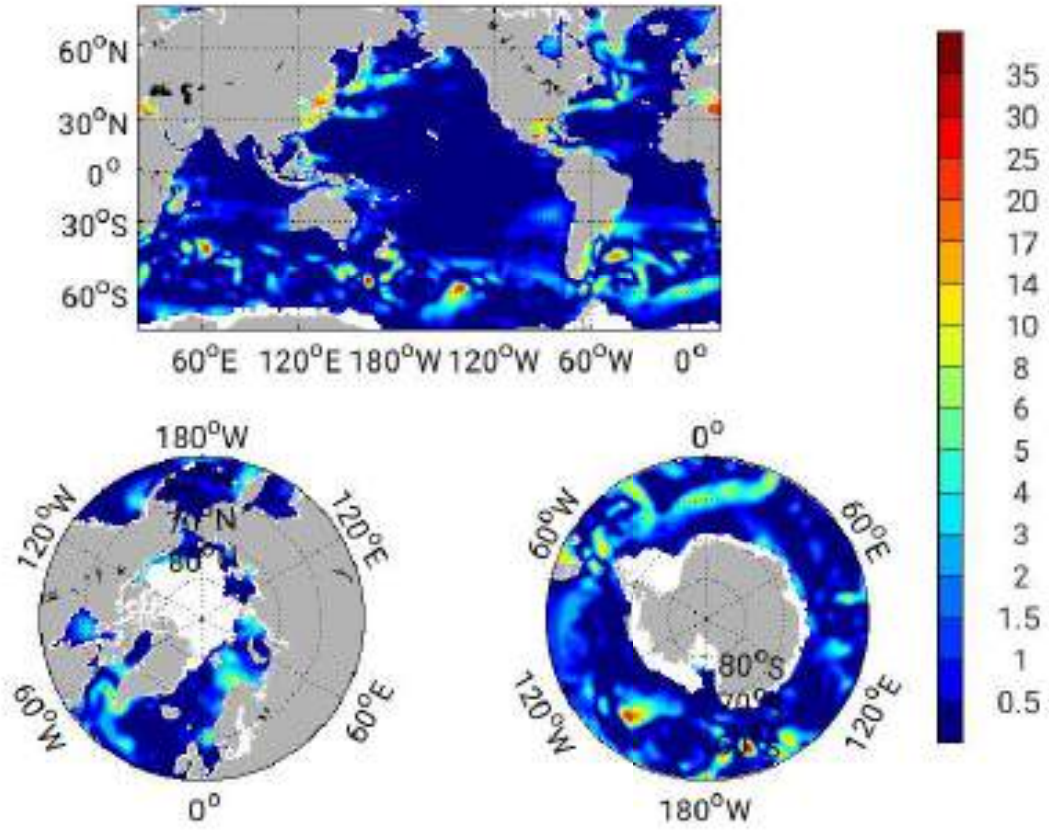

Figure : Mean Dynamic Topography: Modeled-Data Cost

fit to altimeter data (RADS)

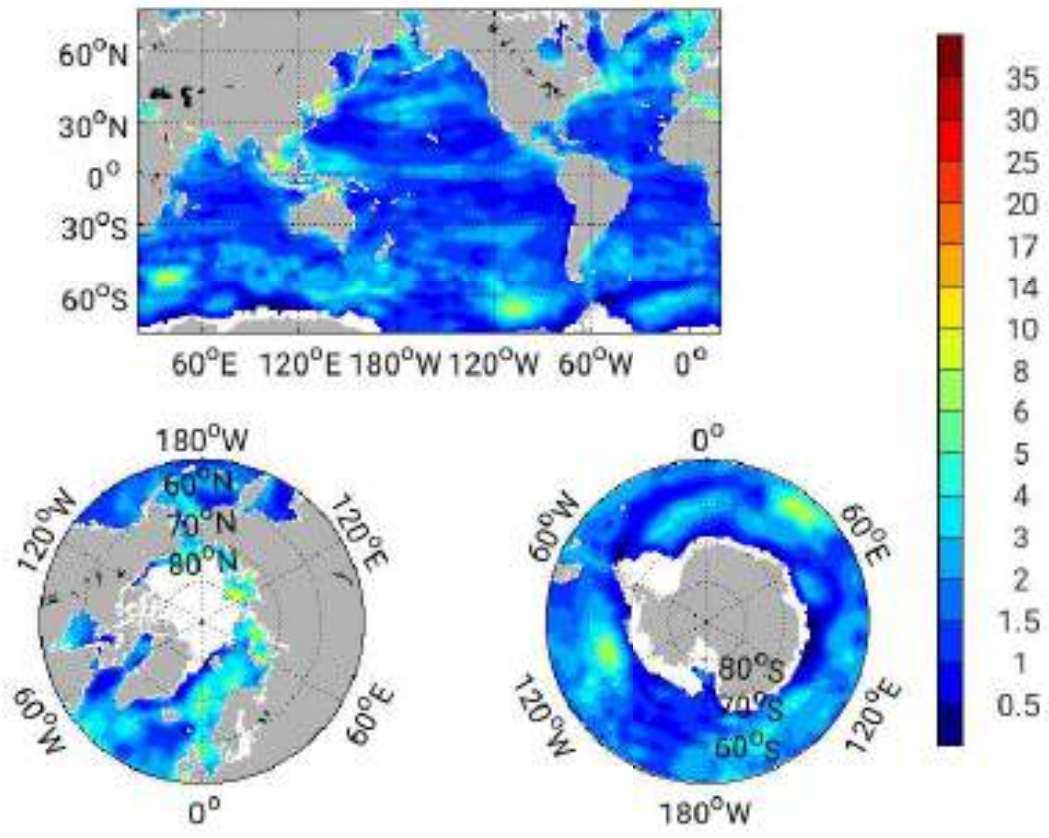

Figure : Sea Level Anomaly, Large Scale: Modeled-Data Cost

fit to altimeter data (RADS)

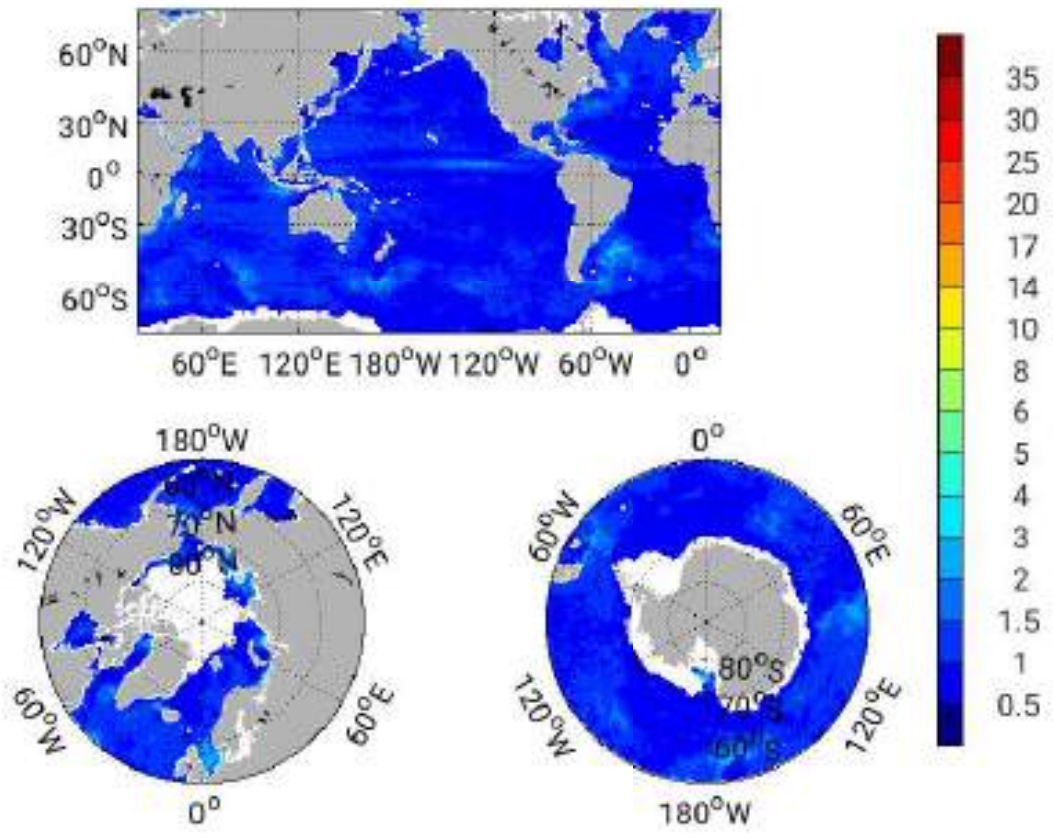

Figure : Sea Level Anomaly, Pointwise: Modeled-Data Cost

fit to altimeter data (RADS)

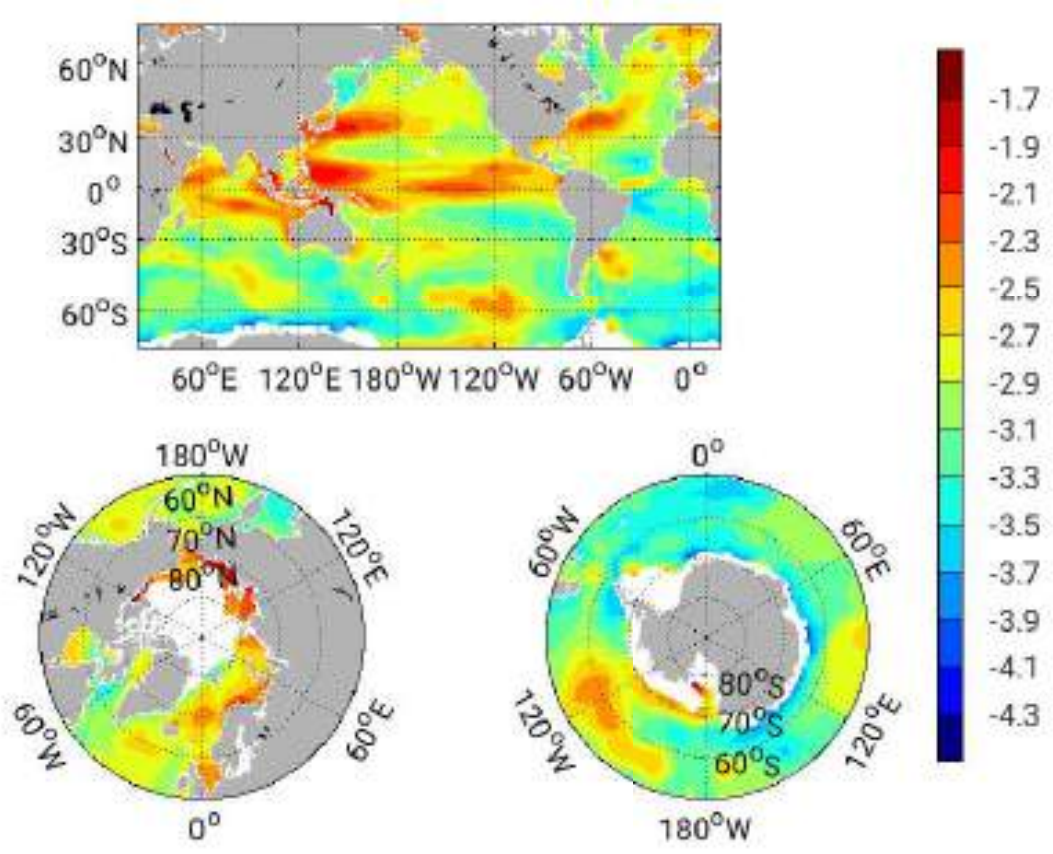

Figure : Sea Level Anomaly, Large Scale: Data log(variance) (m^2)

fit to altimeter data (RADS)

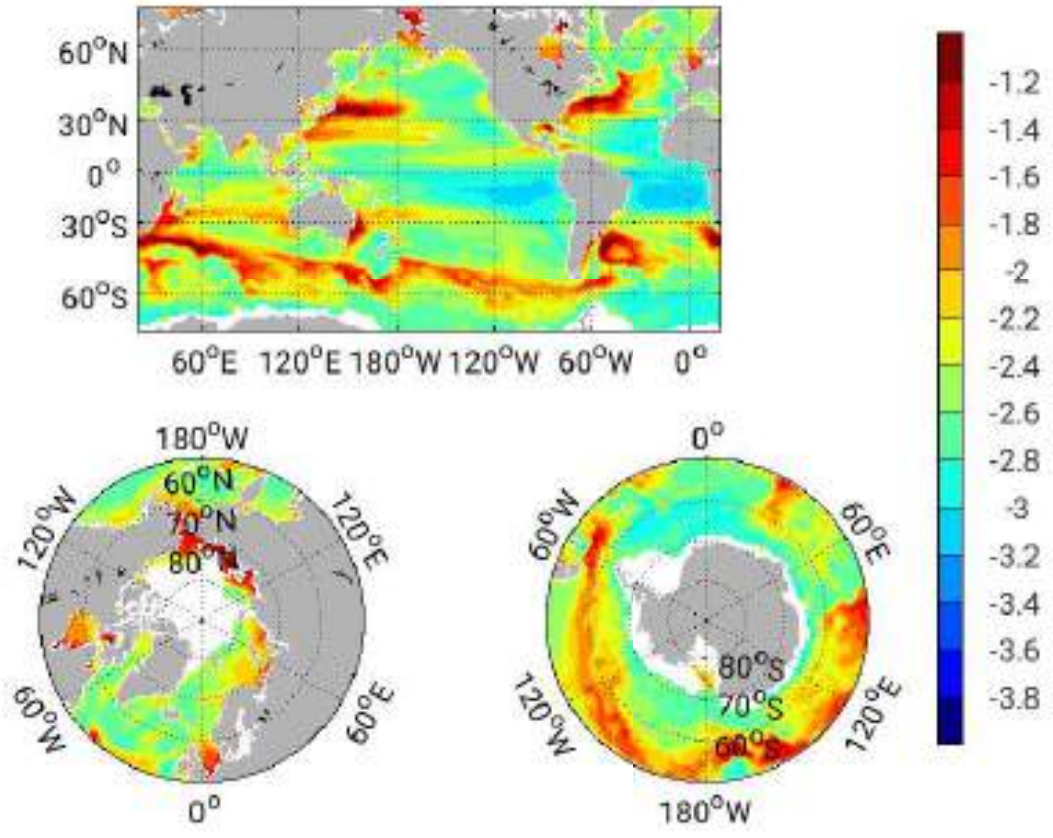

Figure : Sea Level Anomaly, Pointwise: Data log(variance) (m^2)

fit to altimeter data (RADS)

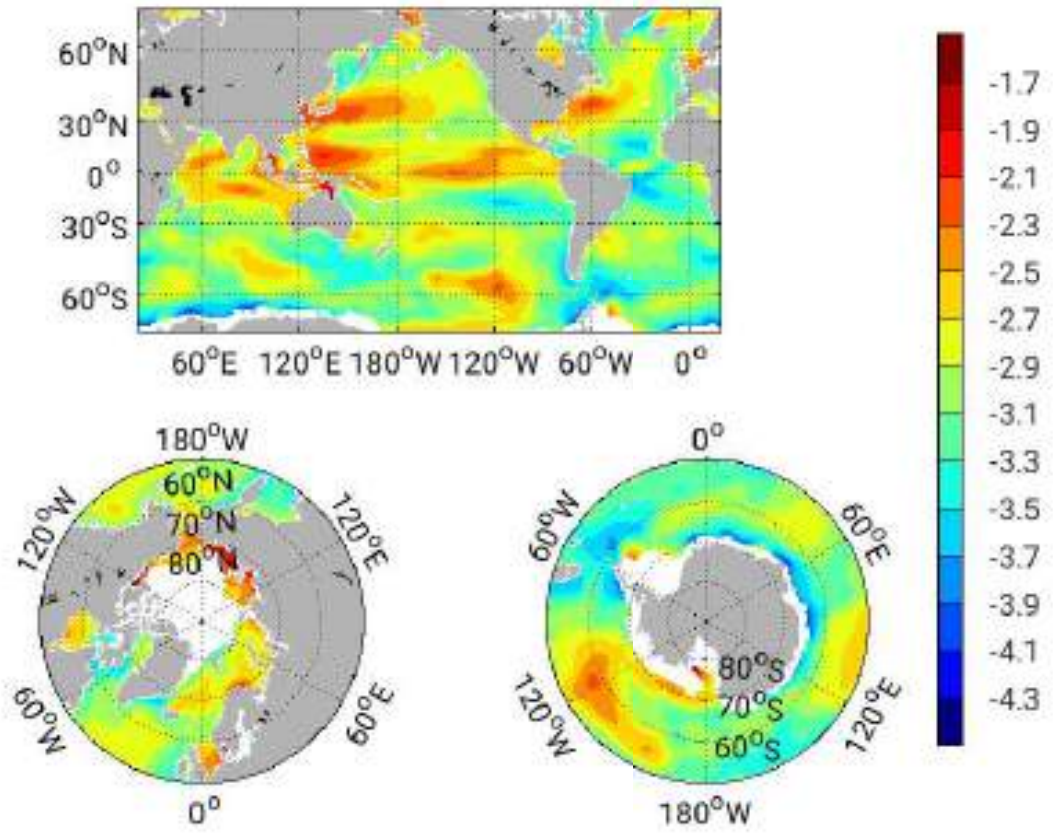

Figure : Sea Level Anomaly, Large Scale: Modeled log(variance) (m^2)

fit to altimeter data (RADS)

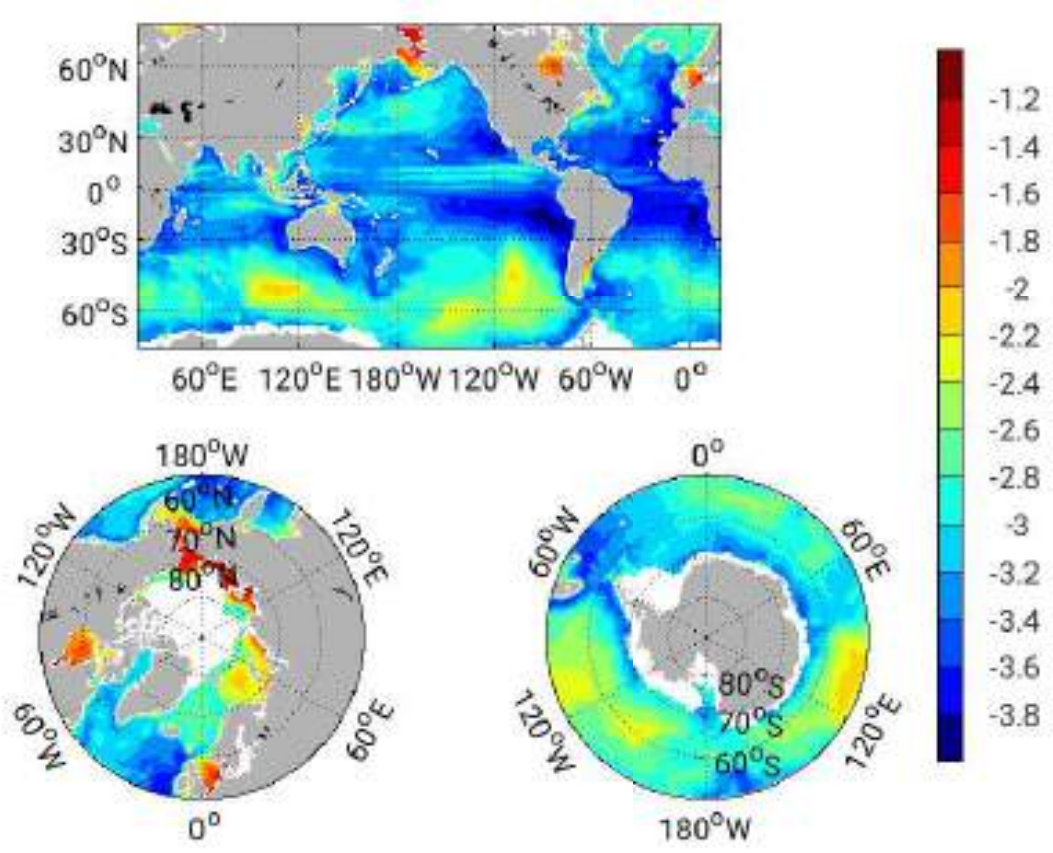

Figure : Sea Level Anomaly, Pointwise: Modeled log(variance) (m^2)

fit to grace r4 data

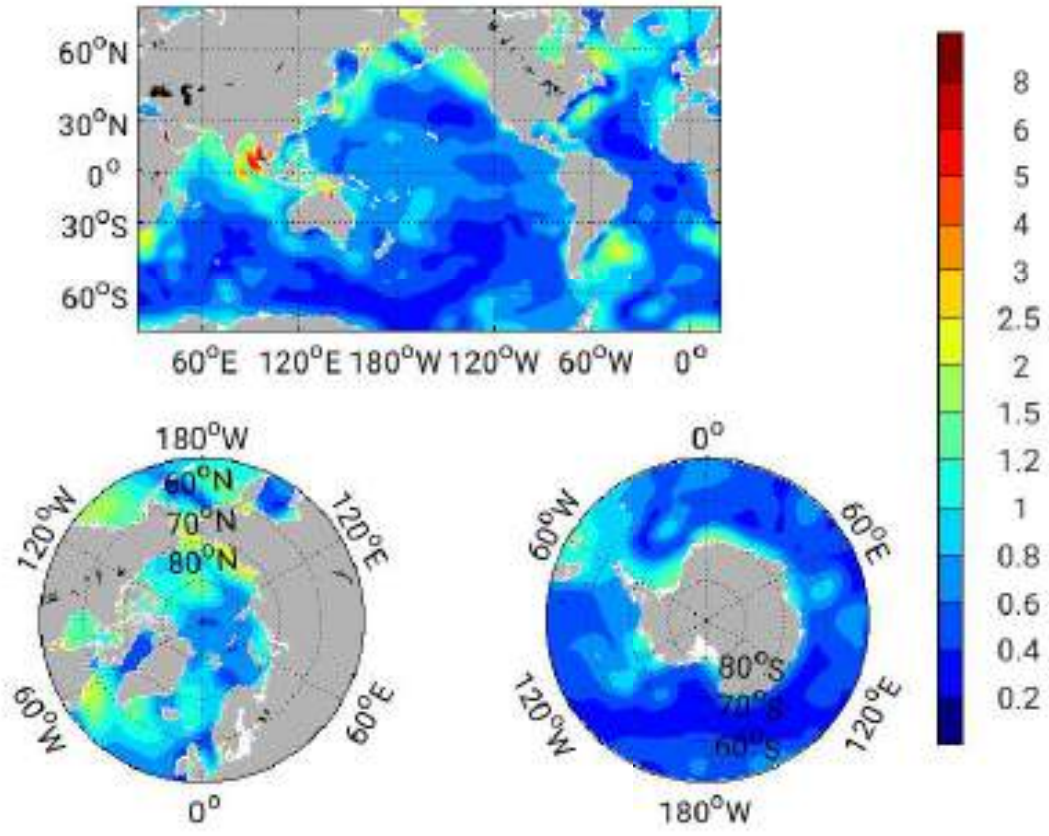

Figure : Bottom Pressure (cm): RMS of Modeled-Data

fit to grace r4 data

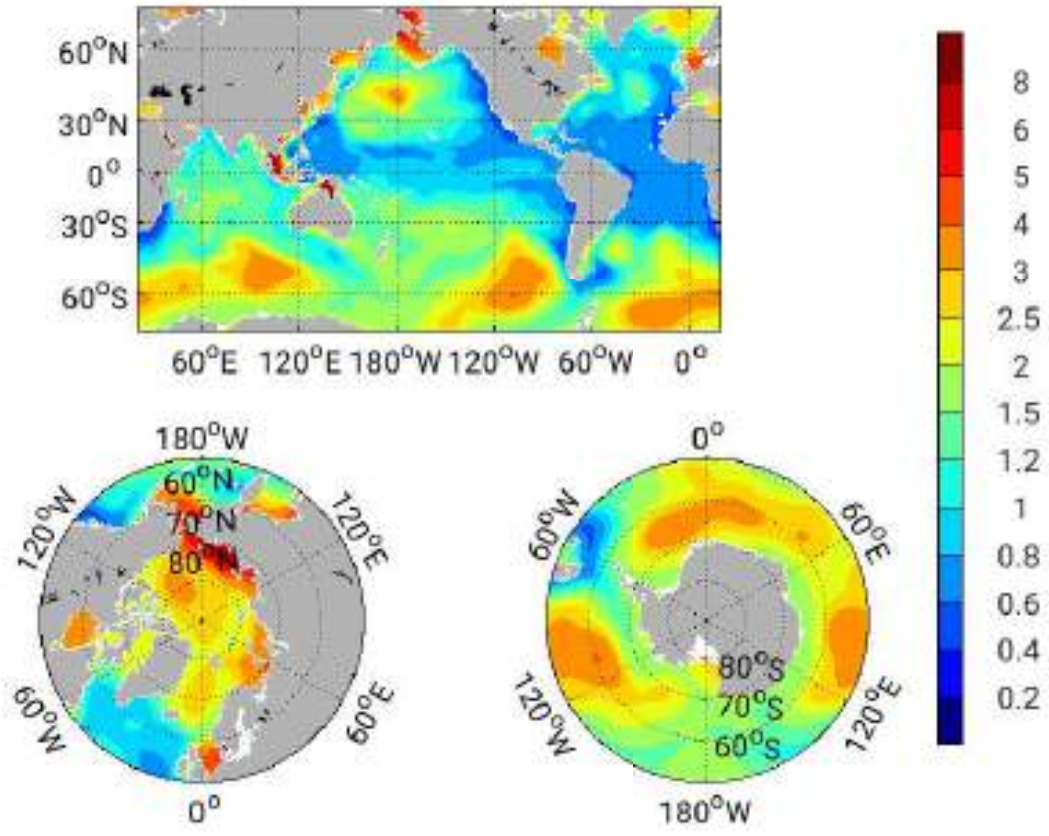

Figure : Bottom Pressure (cm): RMS of Modeled

fit to grace r4 data

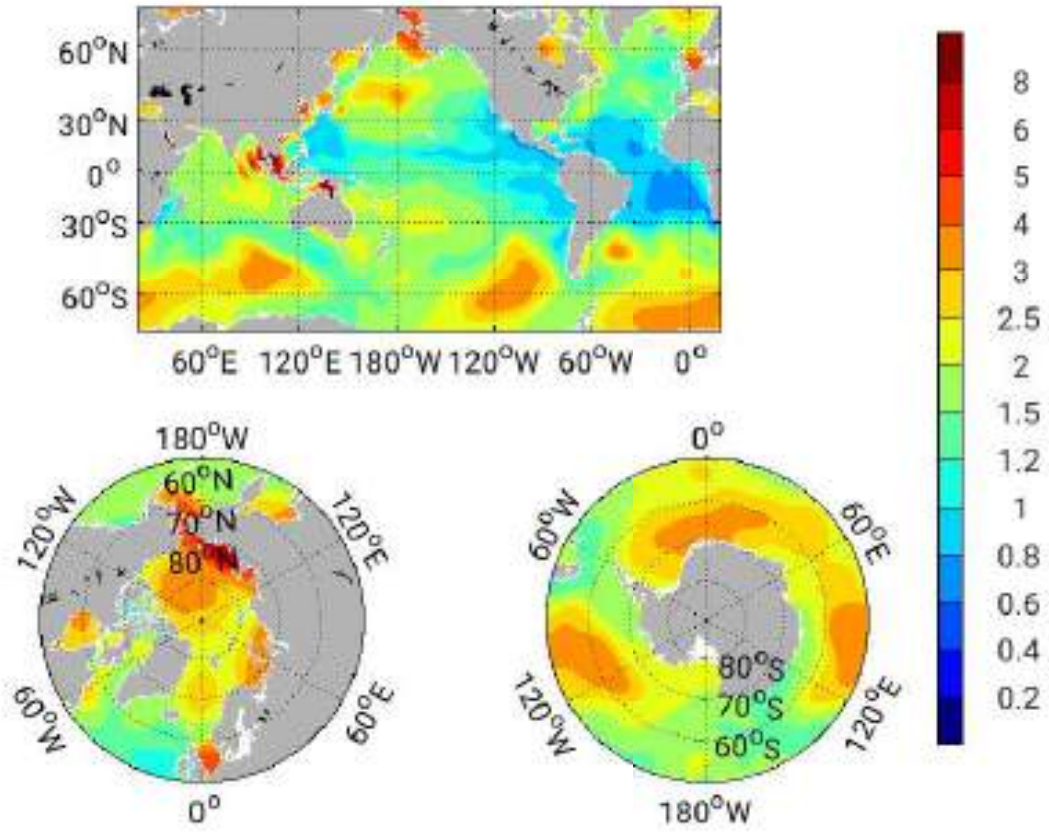

Figure : Bottom Pressure (cm): RMS of Data

fit to grace r4 data

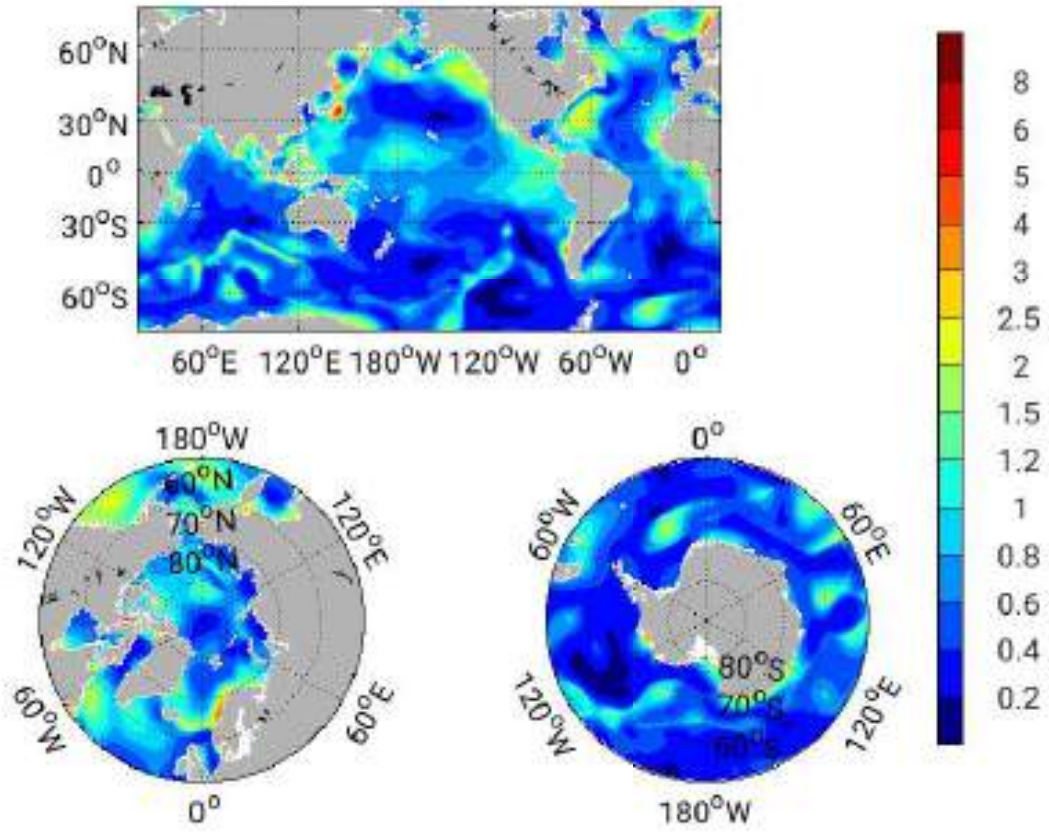

Figure : Bottom Pressure (cm): Cost function

barotropic streamfunction

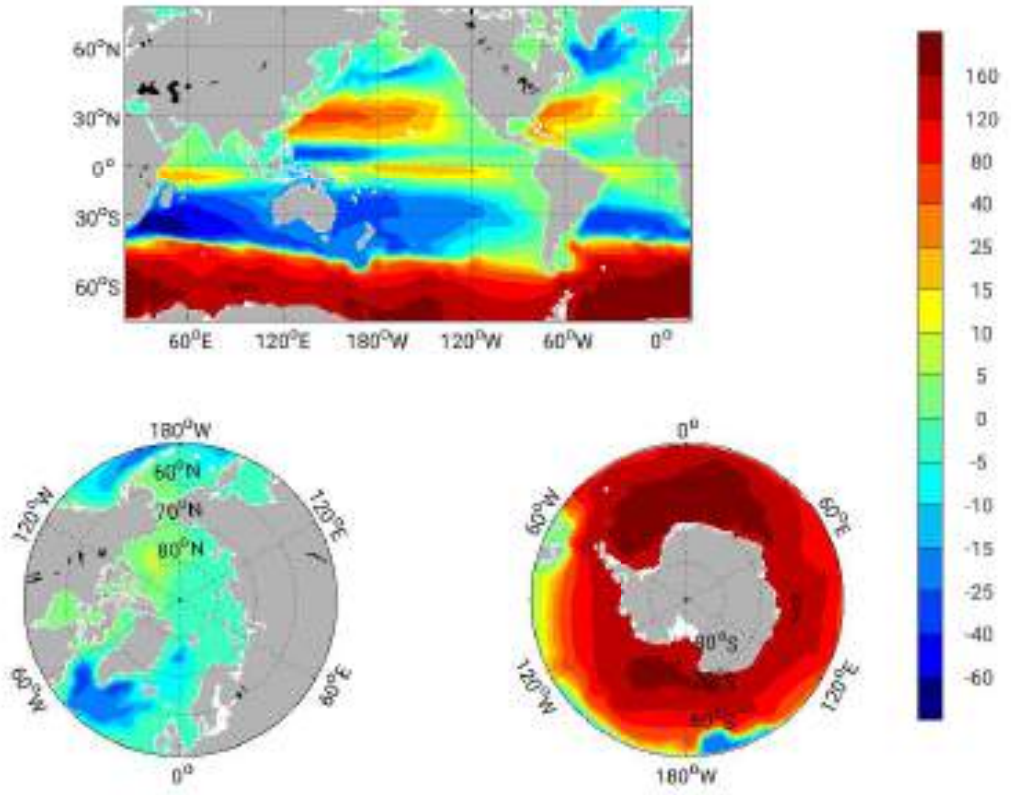

Figure : Barotropic Streamfunction (Sv): 1992 thru 2017 Mean

barotropic streamfunction

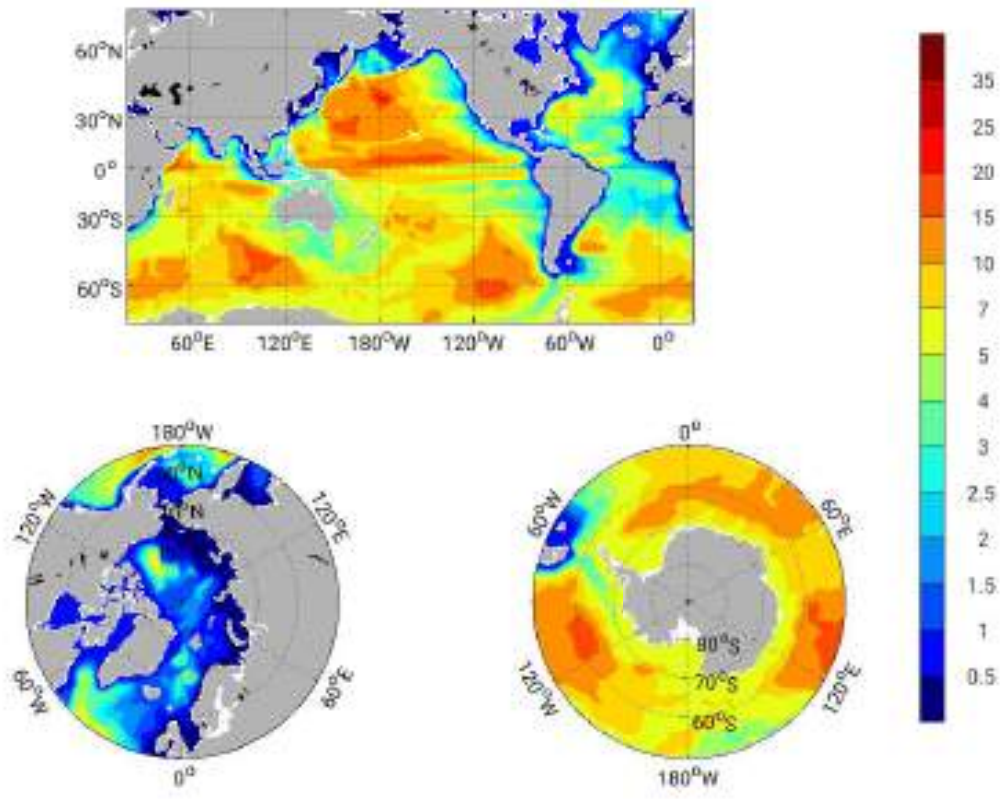

Figure : Barotropic Streamfunction (Sv): Standard Deviation, 1992 thru 2017

meridional streamfunction

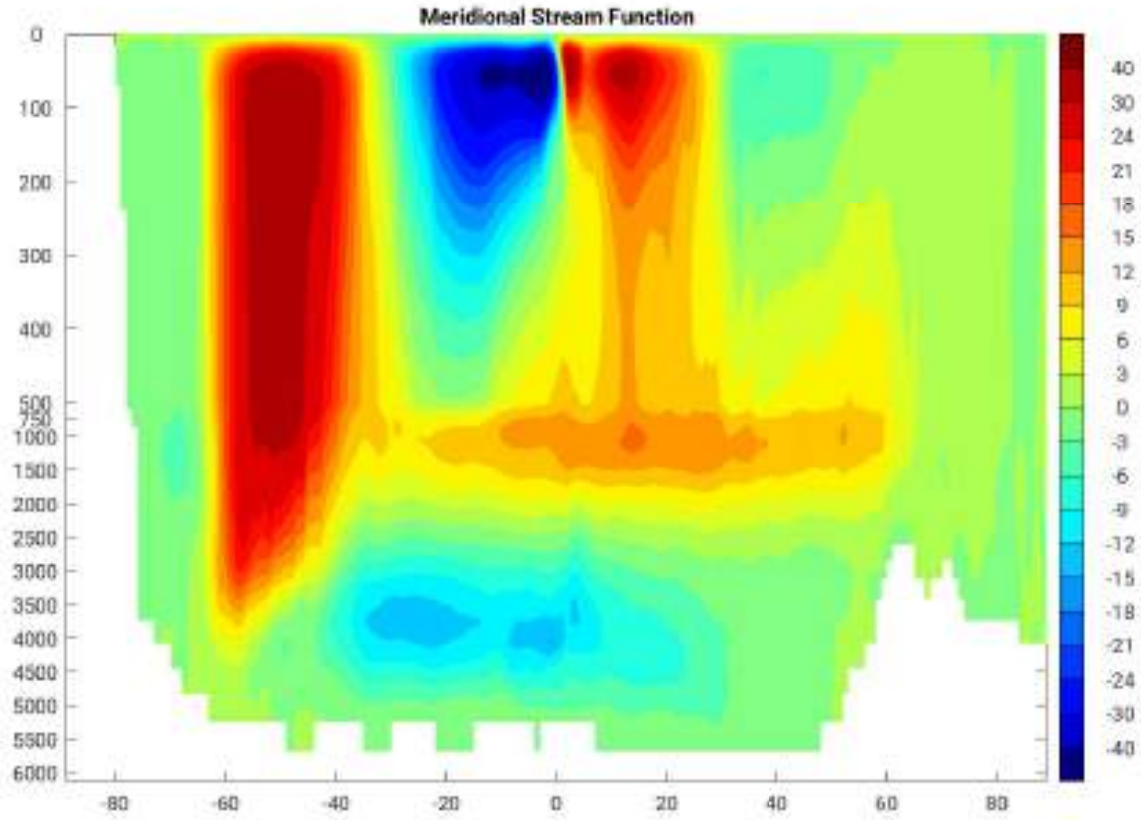

Figure : Overturning Streamfunction (Sv): 1992 thru 2017 Mean

meridional streamfunction

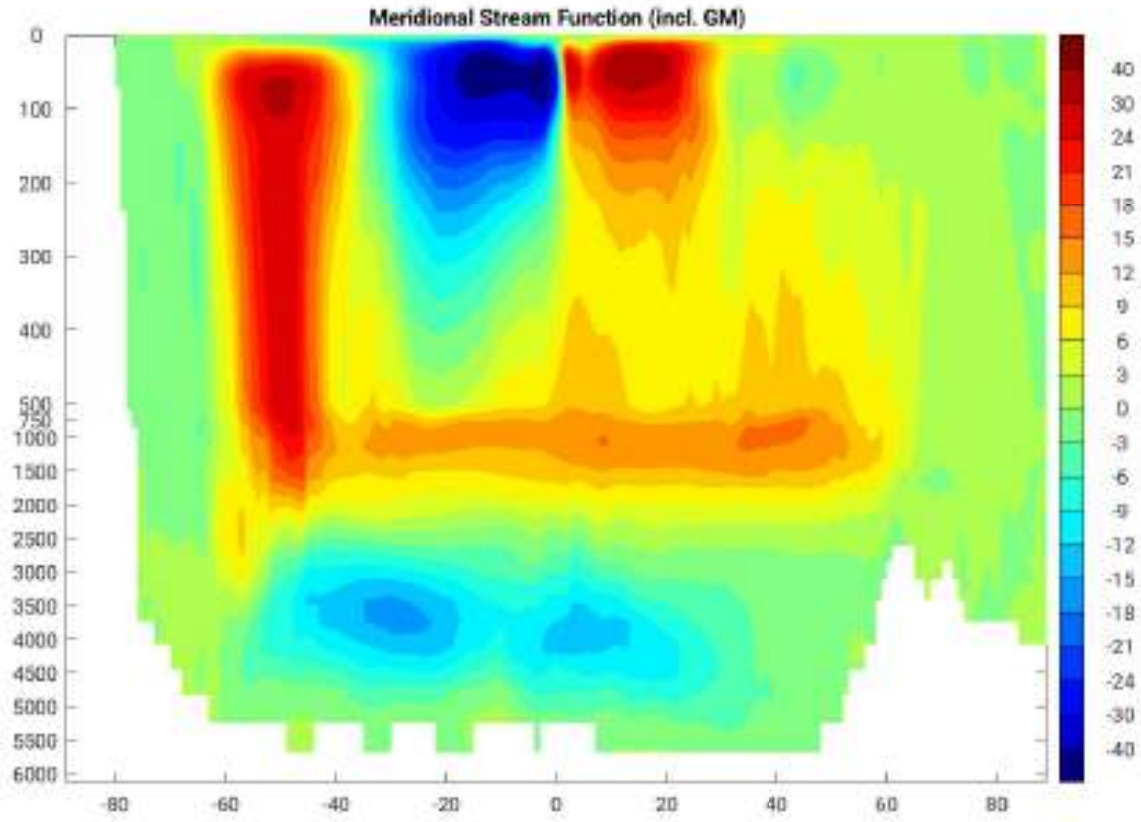

Figure : Overturning Streamfunction incl. GM (Sv): 1992 thru 2017 Mean

meridional streamfunction

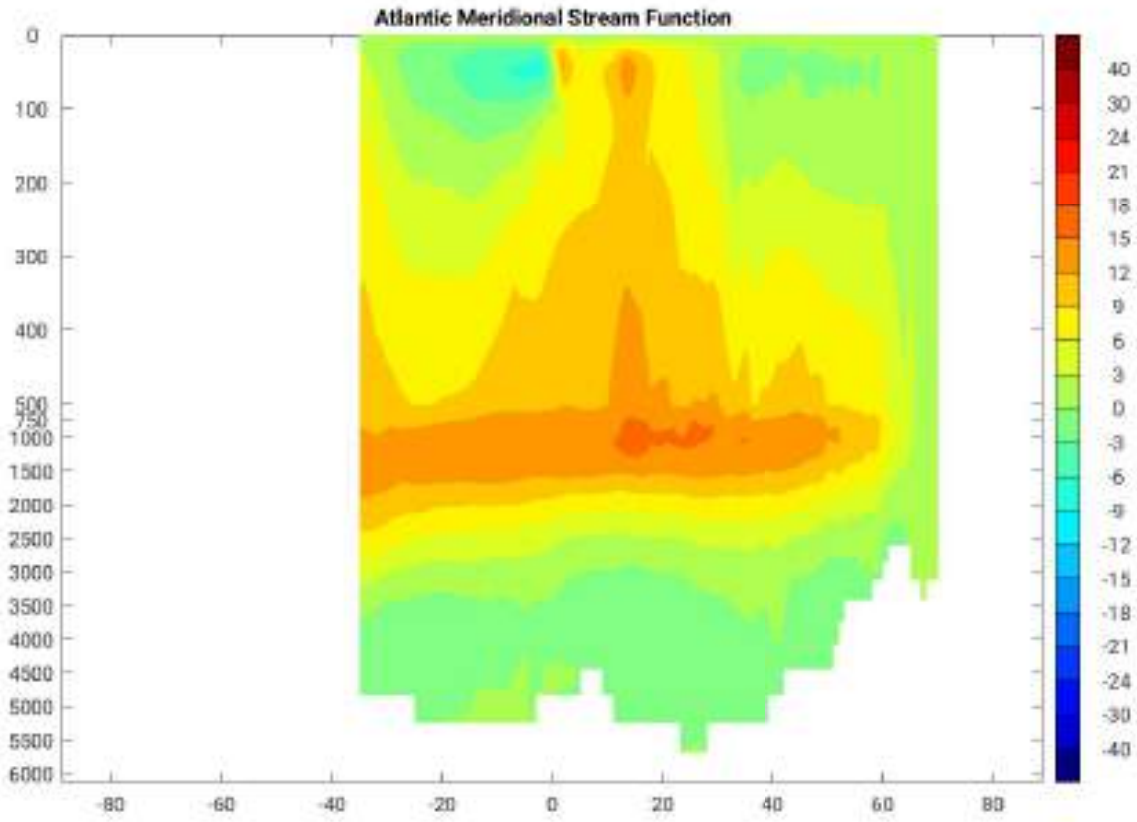

Figure : Atlantic Overturning Streamfunction (Sv): 1992 thru 2017 Mean

meridional streamfunction

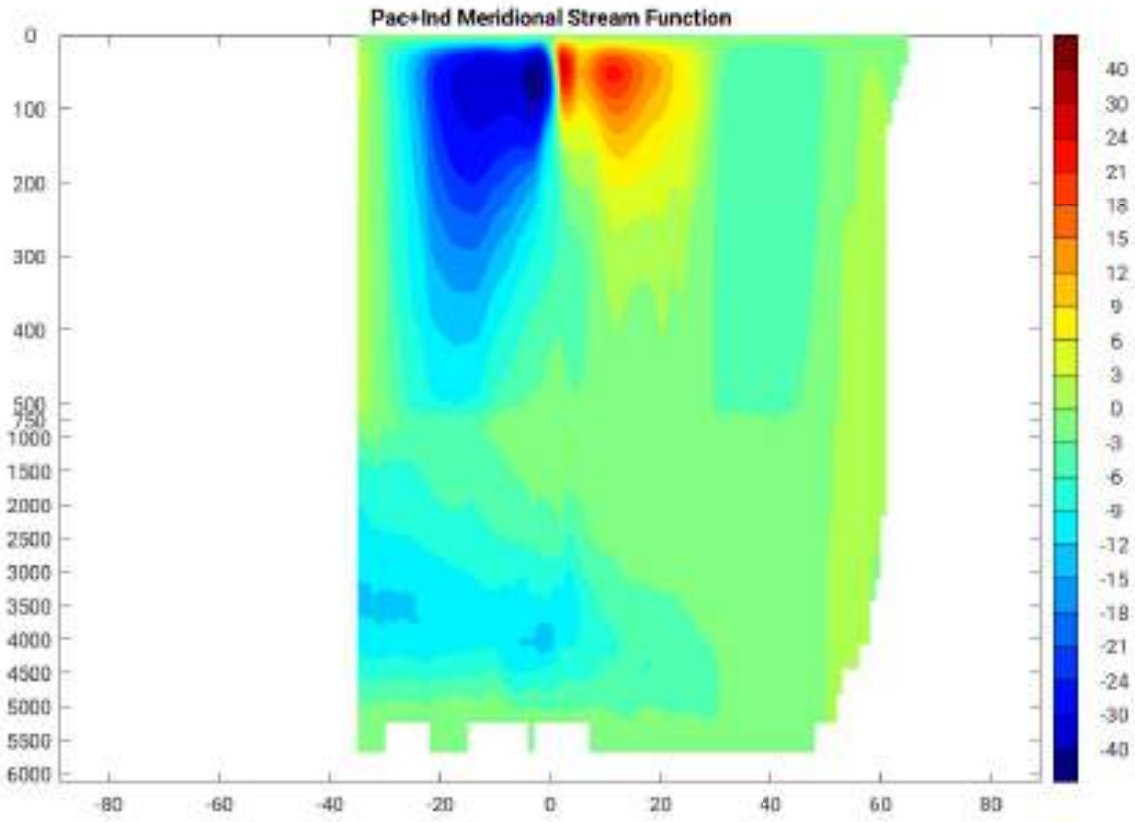

Figure : Pac+Ind Overturning Streamfunction (Sv): 1992 thru 2017 Mean

meridional streamfunction

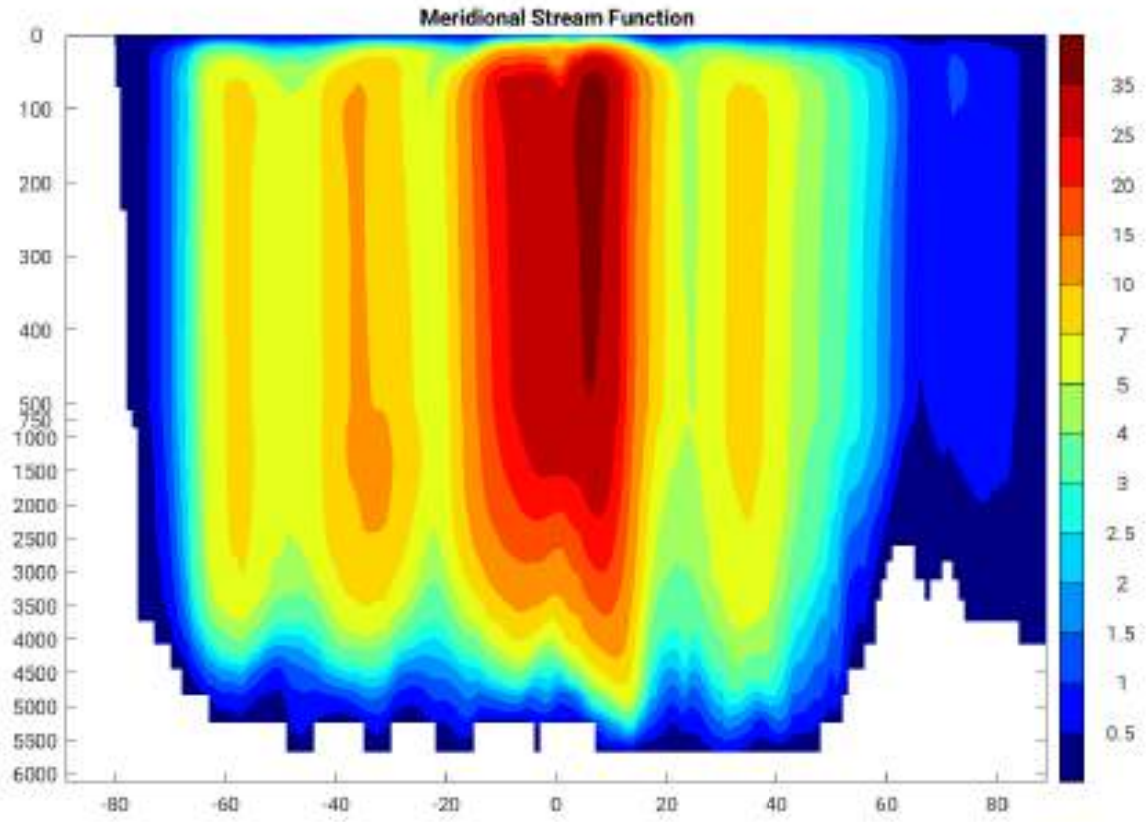

Figure : Overturning Streamfunction (Sv): Standard Deviation, 1992 thru 2017

meridional streamfunction

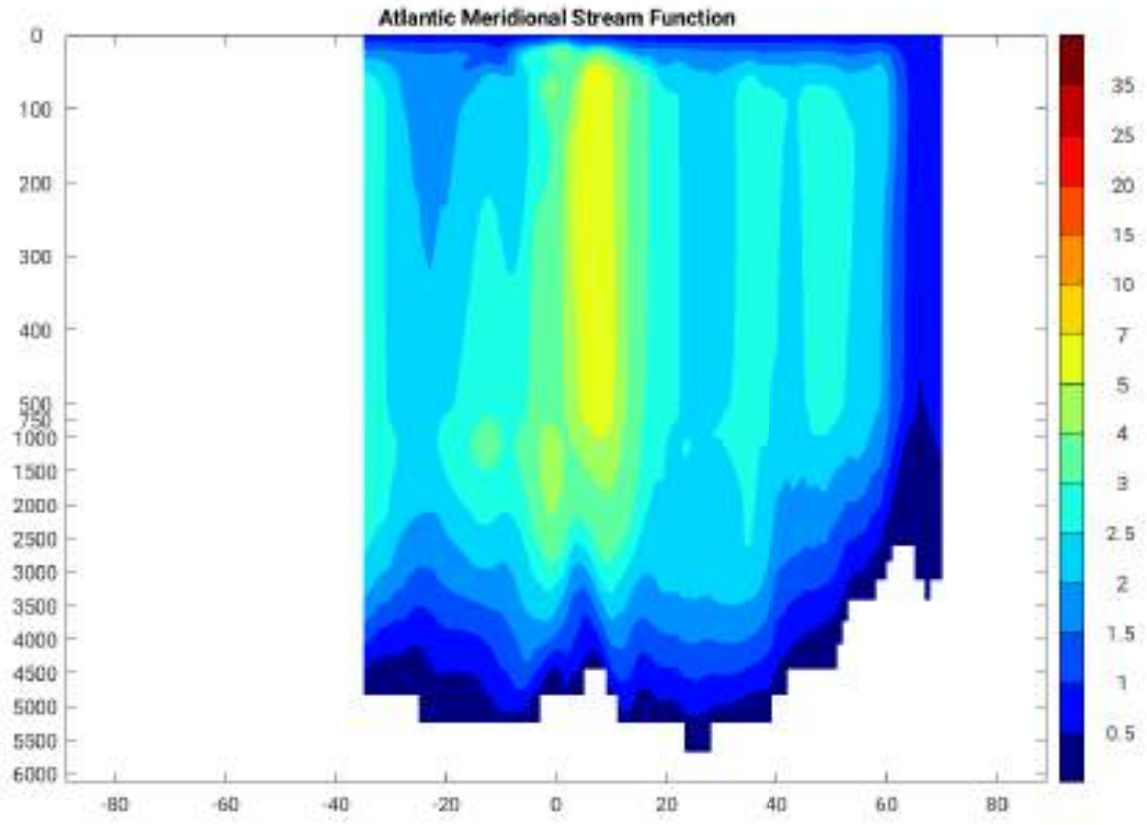

Figure : Atlantic Overturning Streamfunction (Sv): Standard Deviation, 1992 thru 2017

meridional streamfunction (time series)

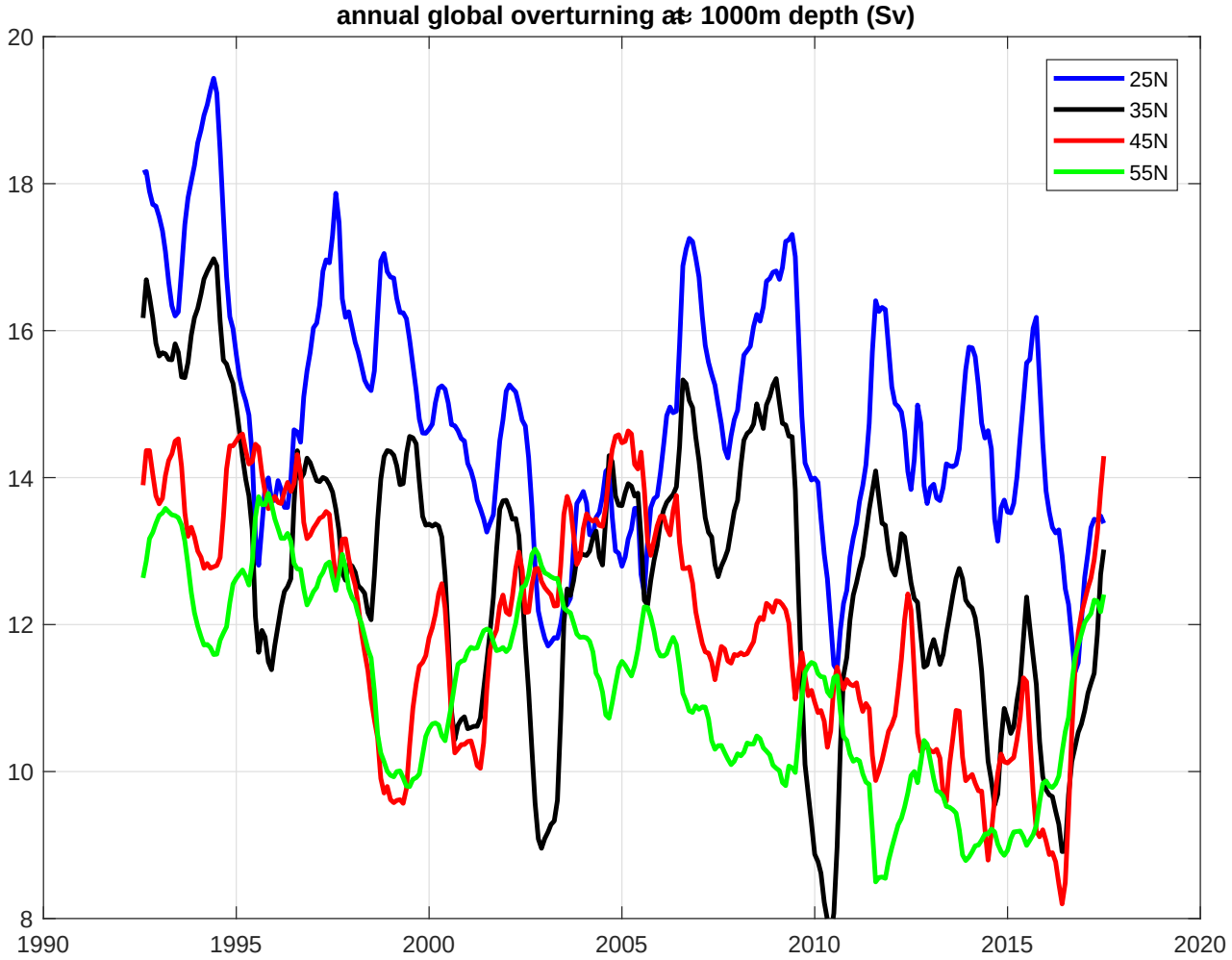

Figure : Annual Global Overturning at Select Latitudes at ≈ 1000m Depth

meridional streamfunction (time series)

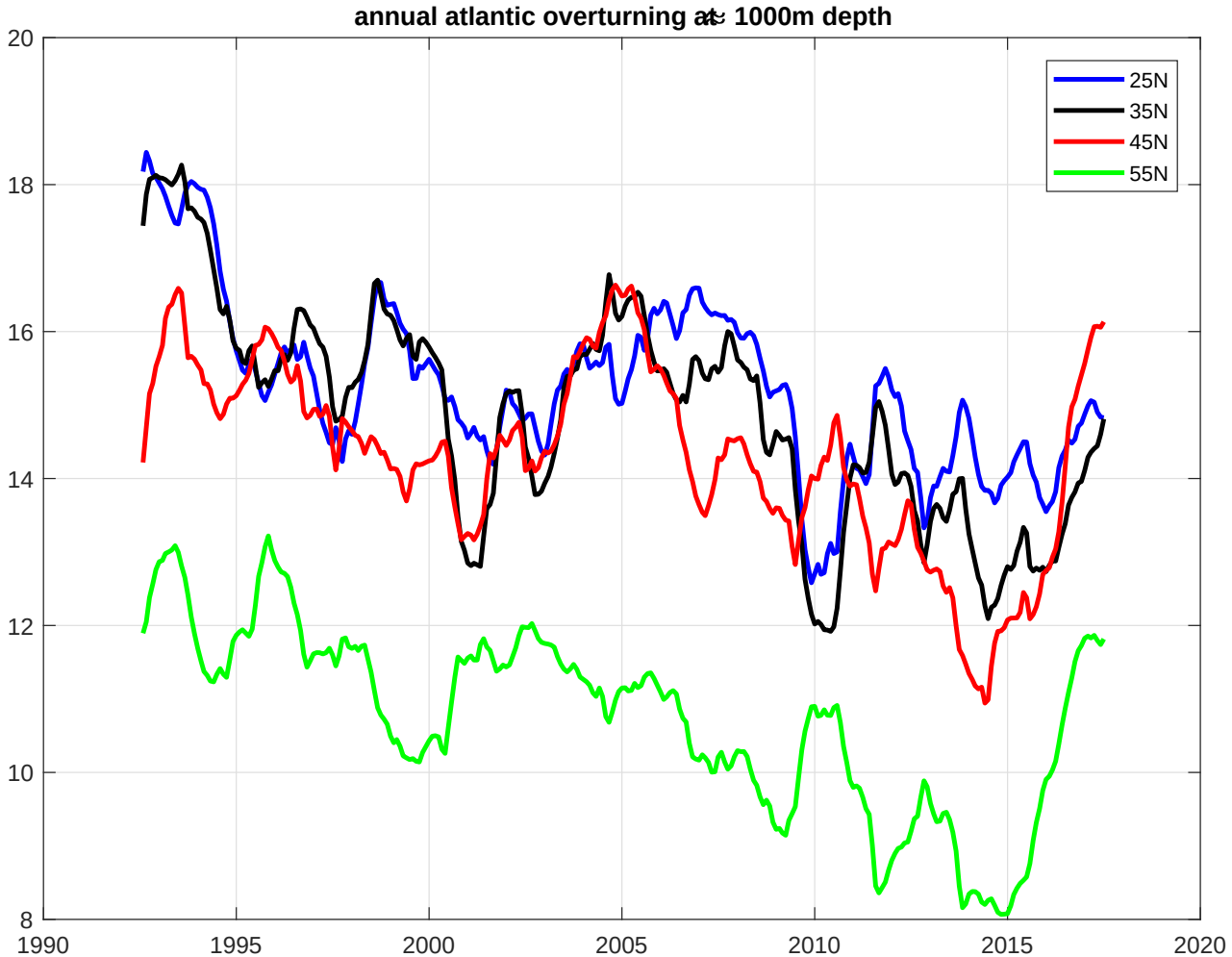

Figure : Annual Atlantic Overturning at Select Latitudes at ≈ 1000m Depth (Sv)

meridional heat transport

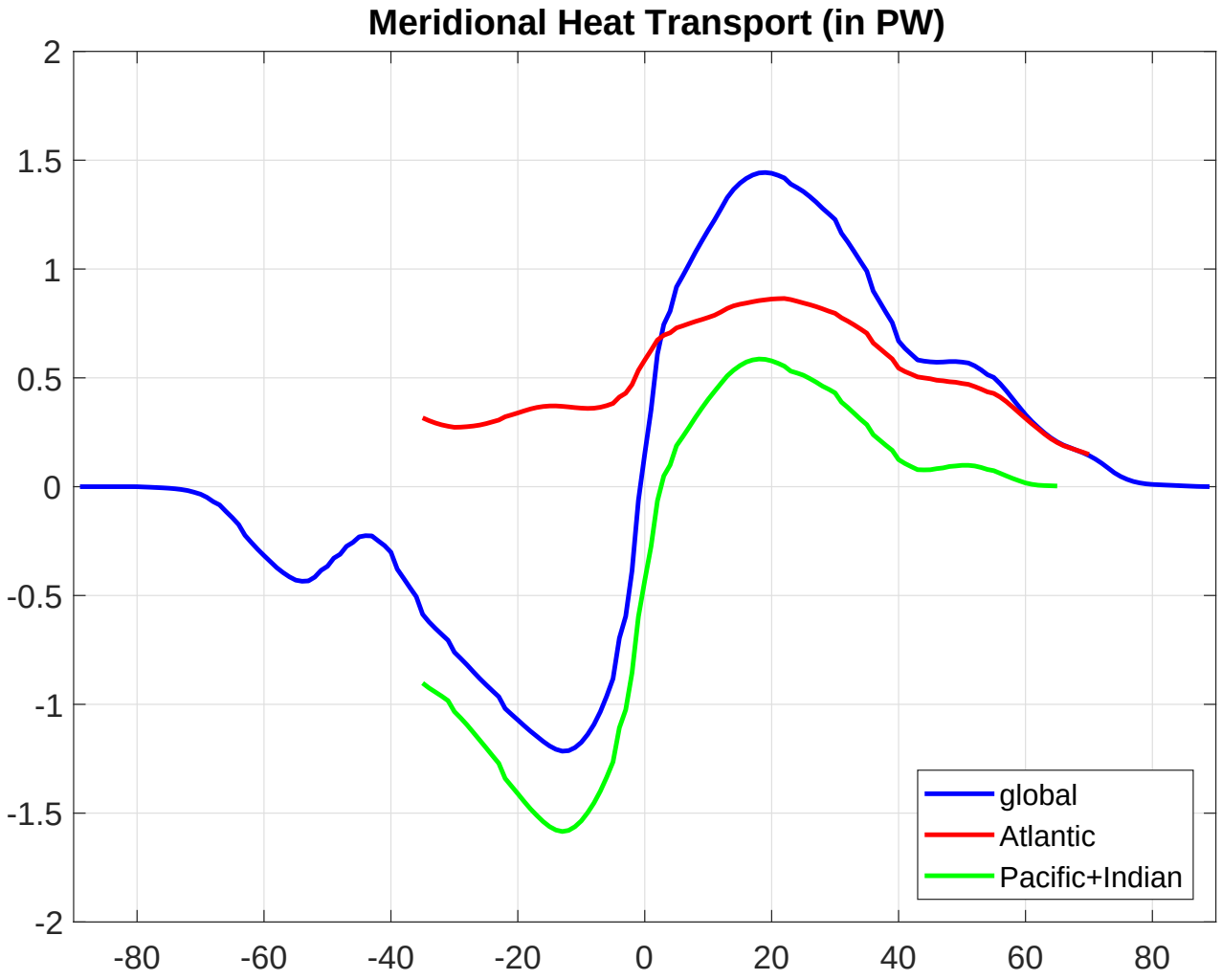

Figure : Meridional Heat Transport (PW): 1992 thru 2017 Mean

meridional heat transport

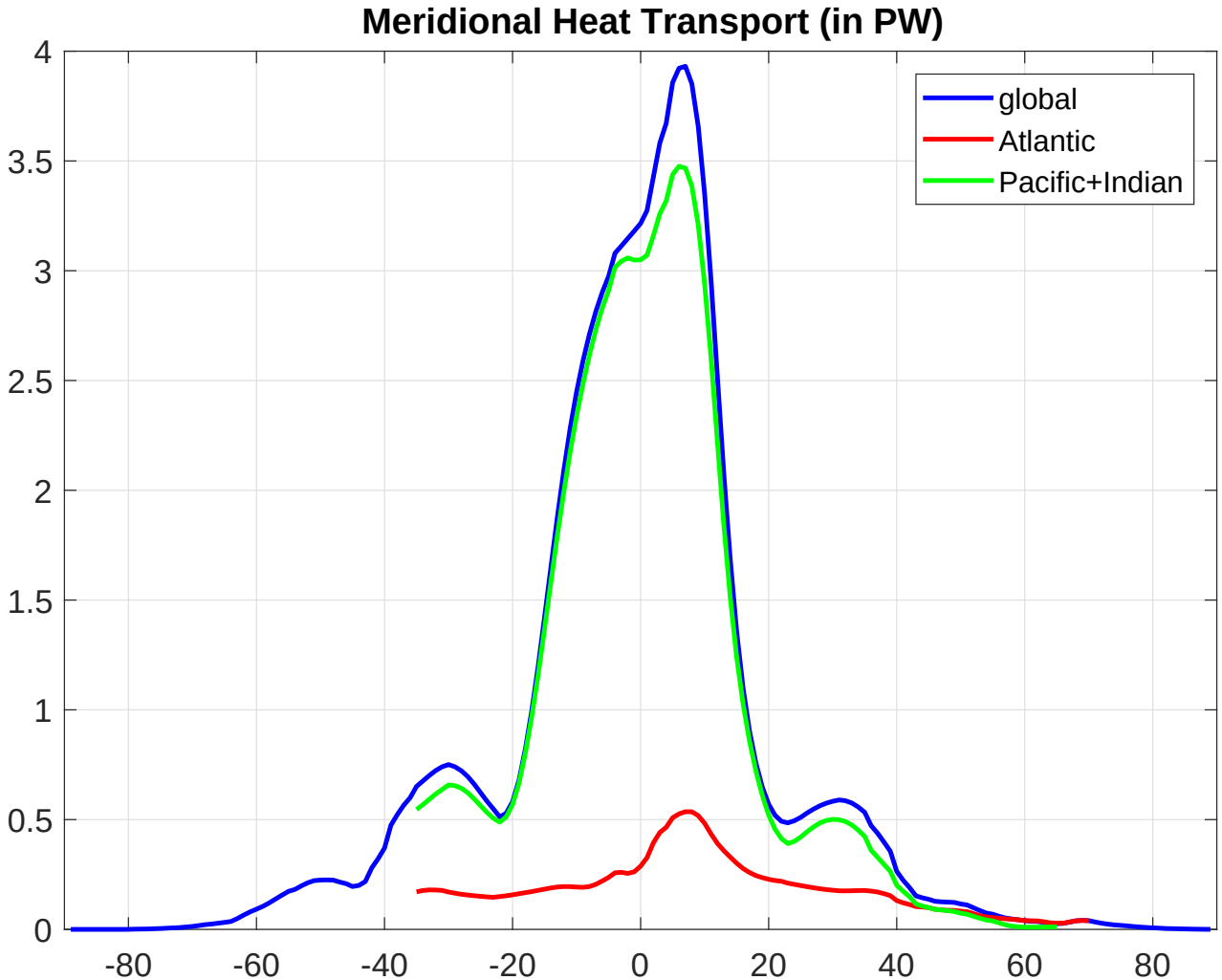

Figure : Meridional Heat Transport (PW): Standard Deviation, 1992 thru 2017

meridional freshwater transport

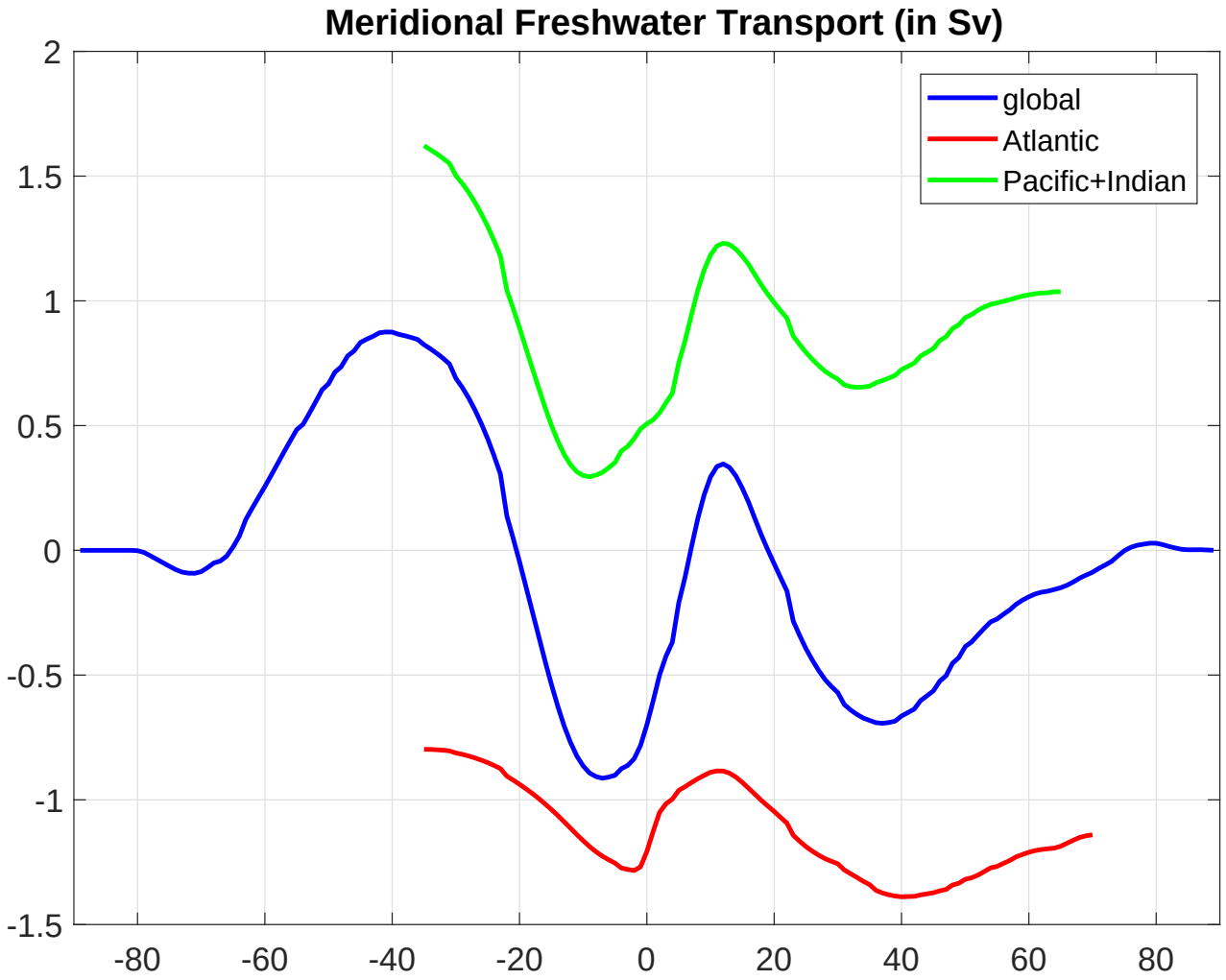

Figure : Meridional Freshwater Transport (Sv): 1992 thru 2017 Mean

meridional freshwater transport

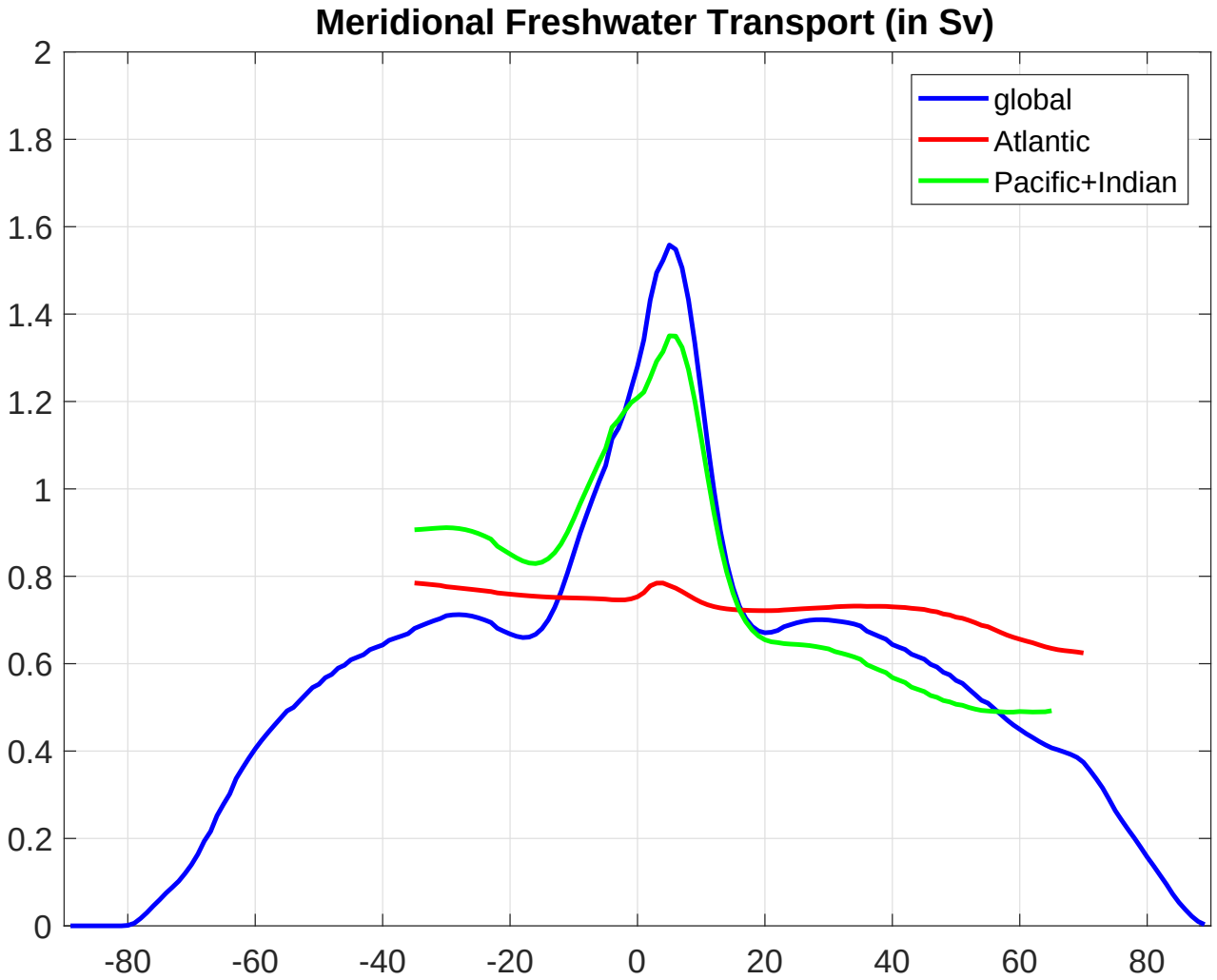

Figure : Meridional Freshwater Transport (Sv): Standard Deviation, 1992 thru 2017

meridional salt transport

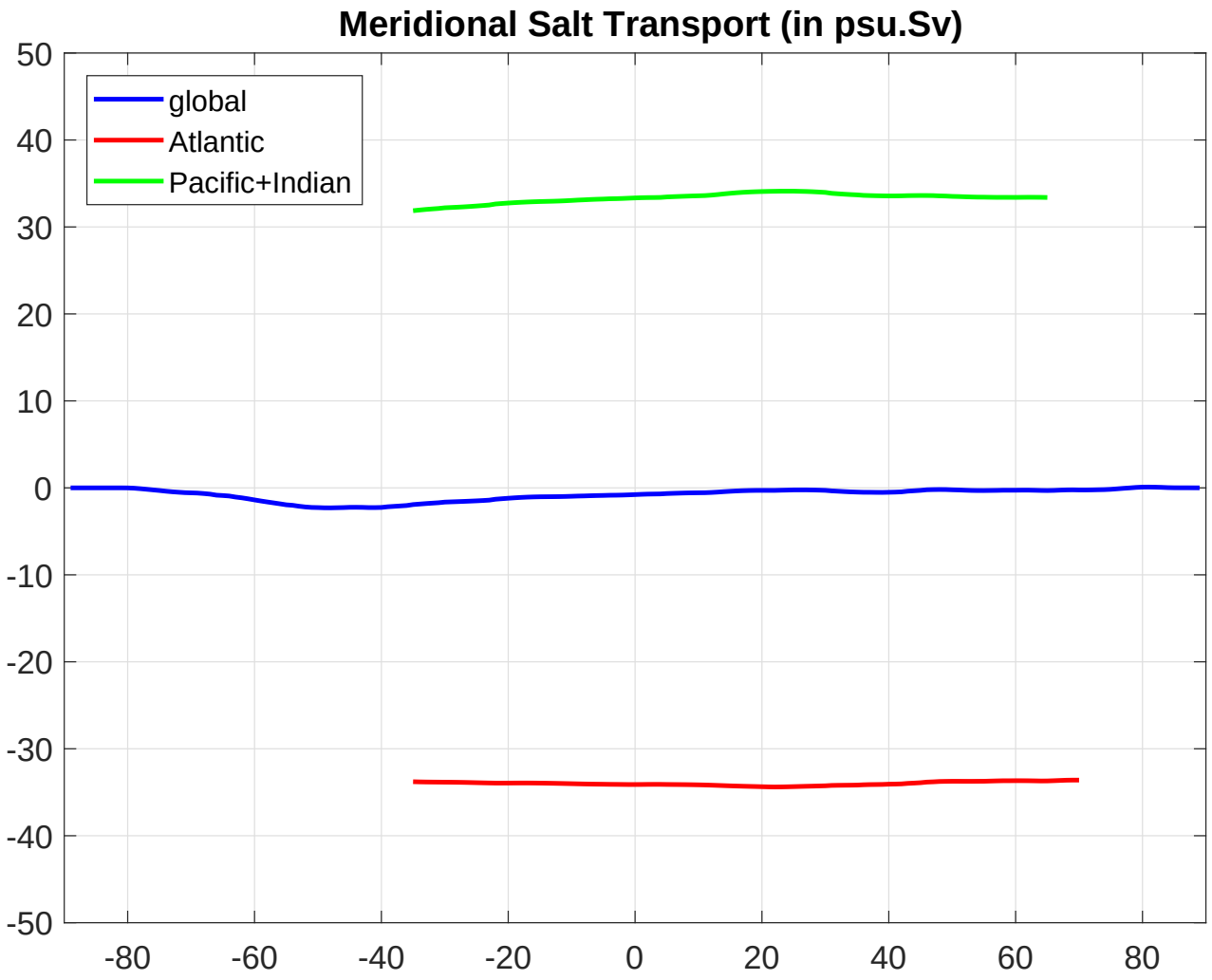

Figure : Meridional Salt Transport (psu.Sv): 1992 thru 2017 Mean

meridional salt transport

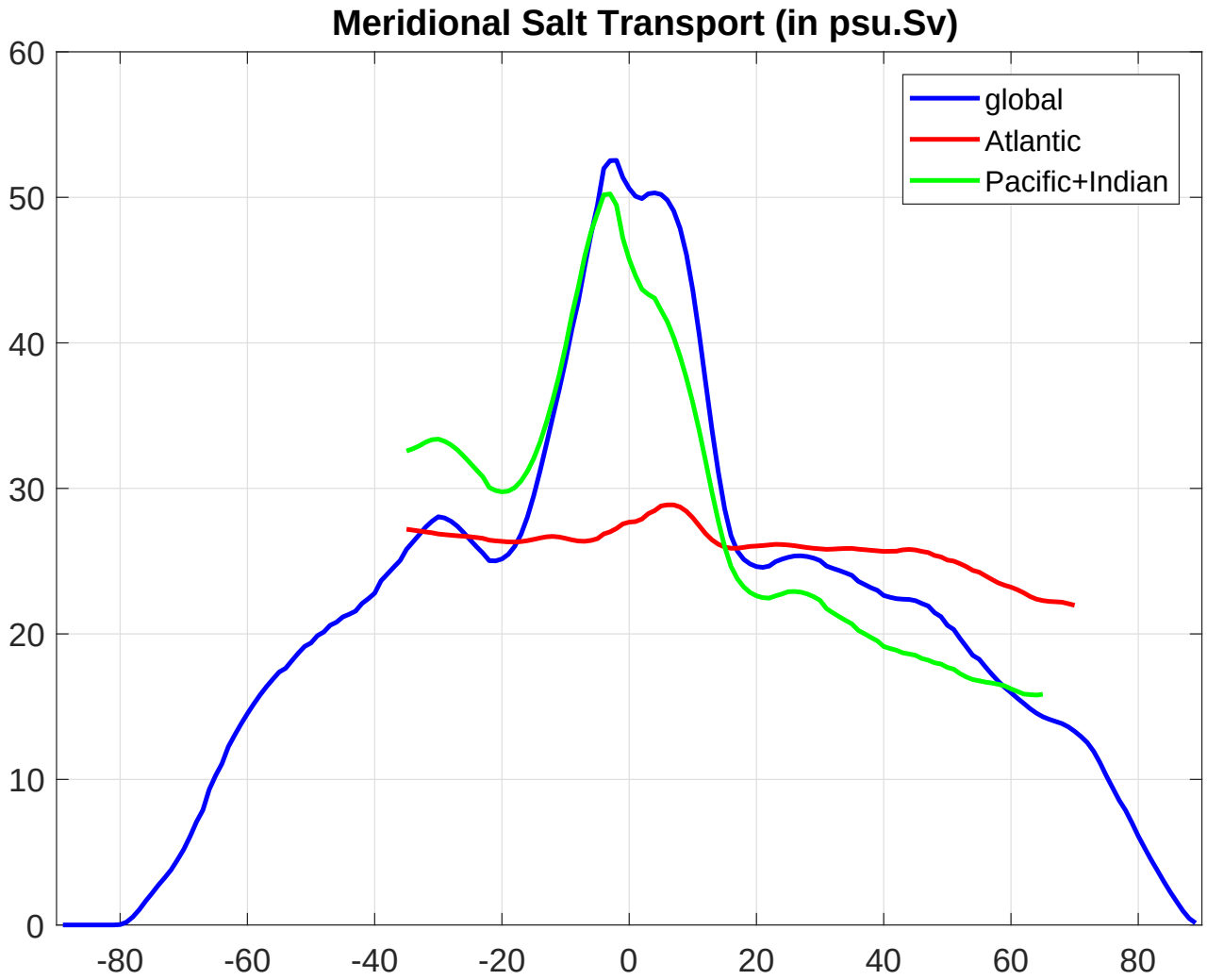

Figure : Meridional Salt Transport (psu.Sv): Standard Deviation, 1992 thru 2017

meridional transports (time series)

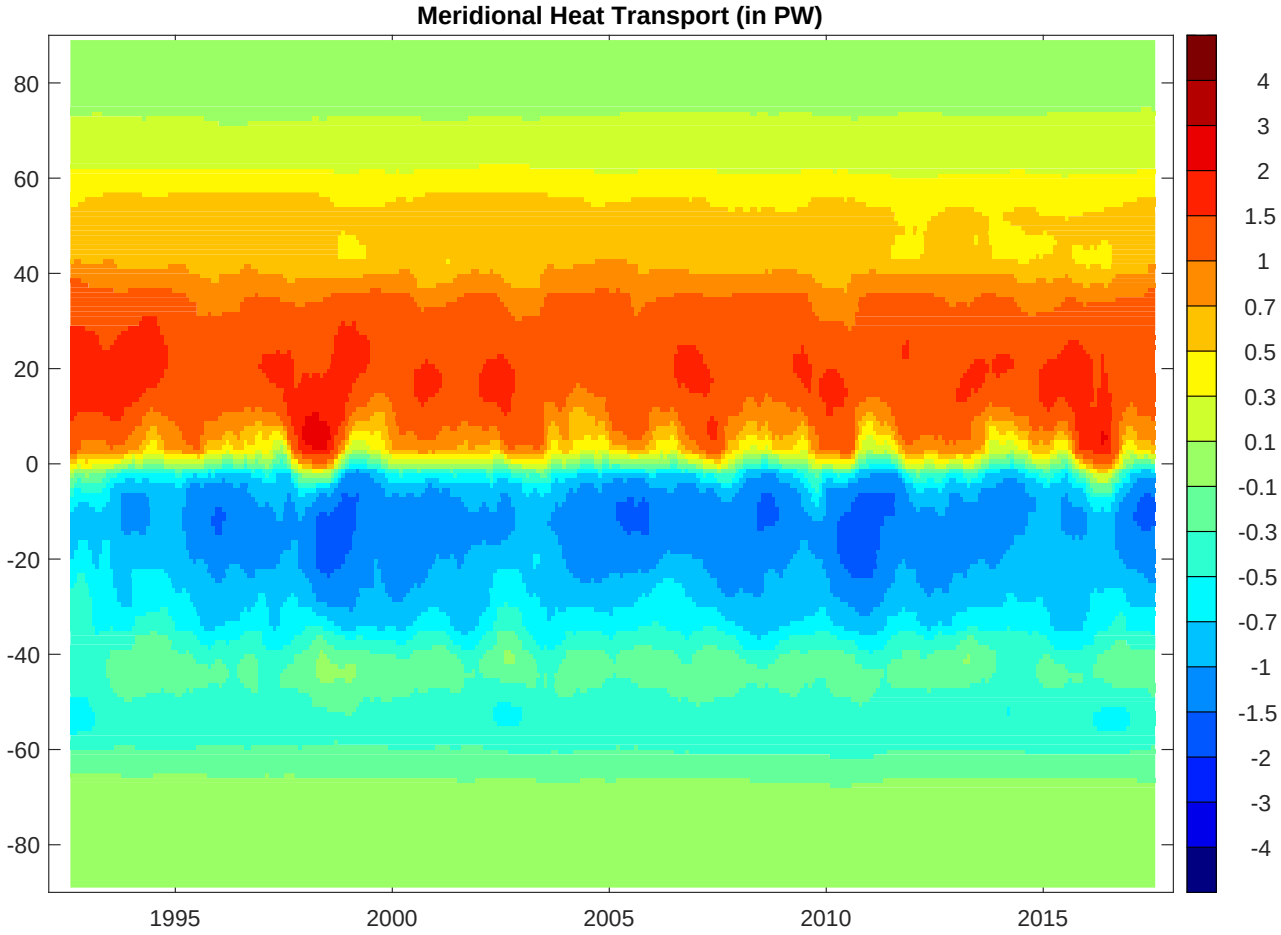

Figure : Meridional Heat Transport (PW, annual mean)

meridional transports (time series)

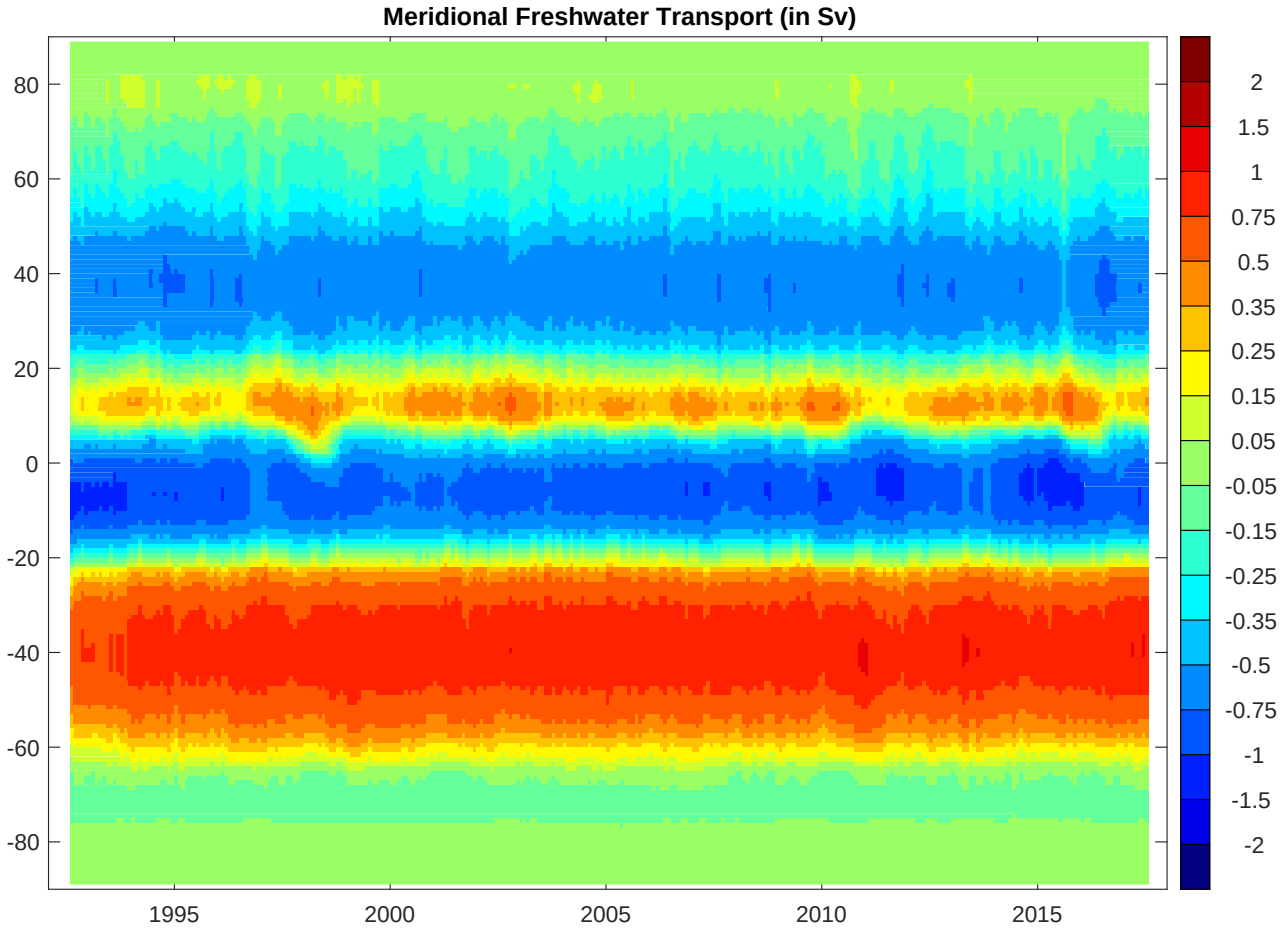

Figure : Meridional Freshwater Transport (Sv, annual mean)

meridional transports (time series)

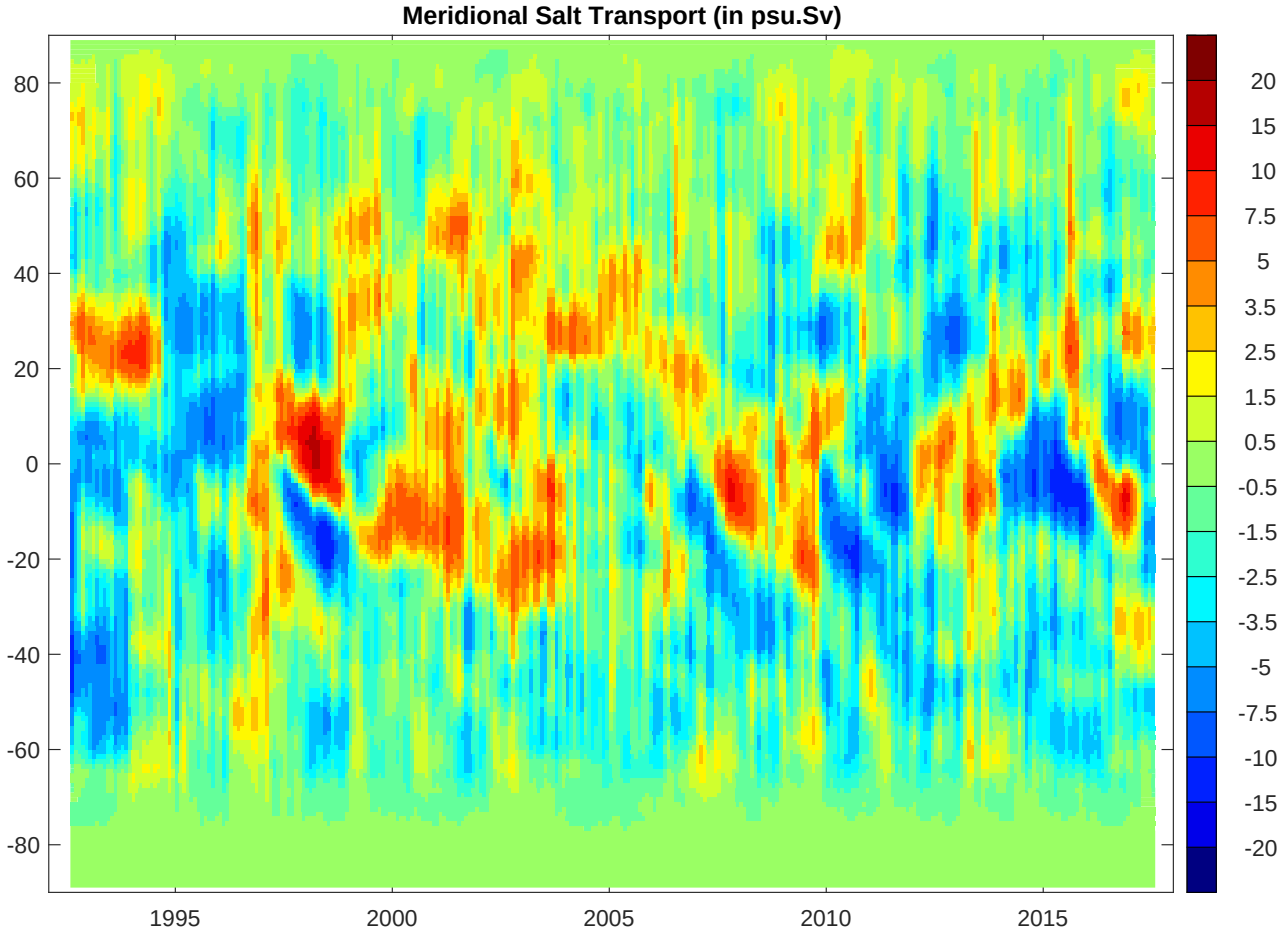

Figure : Meridional Salt Transport (psu.Sv, annual mean)

transects transport

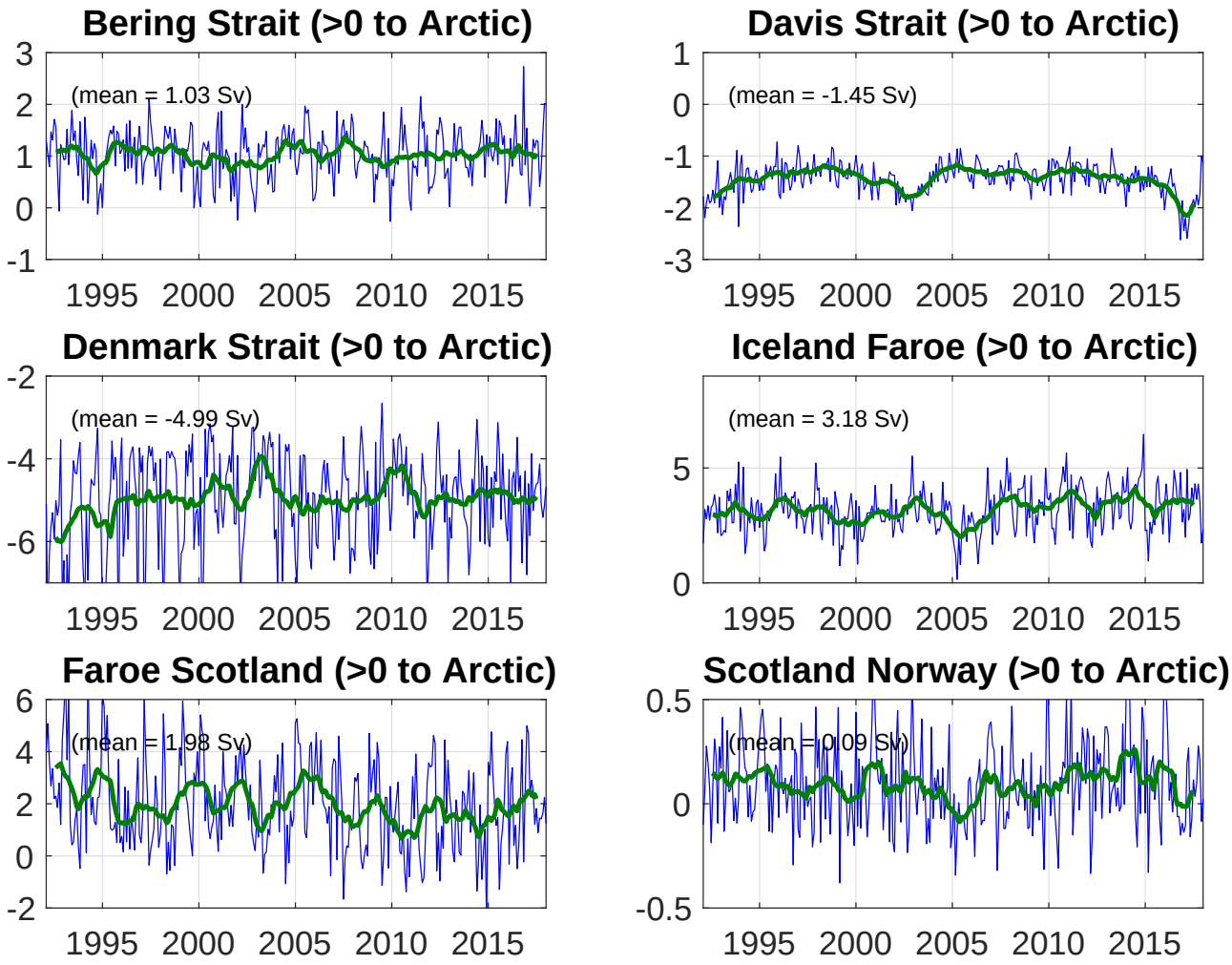

Figure : Volume Transports Entering the Arctic (Sv, annual mean)

transects transport

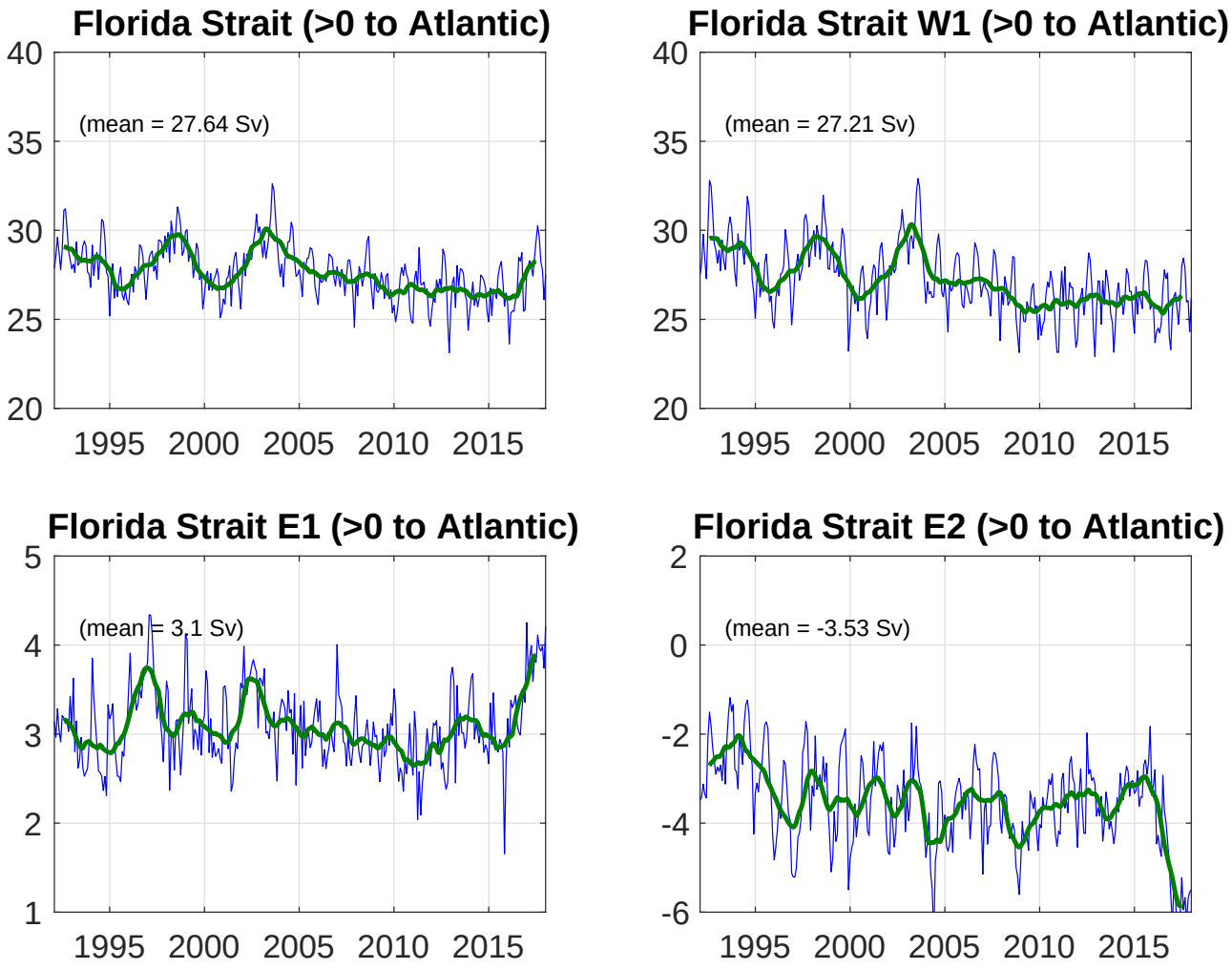

Figure : Volume Transports Entering the Atlantic (Sv, annual mean)

transects transport

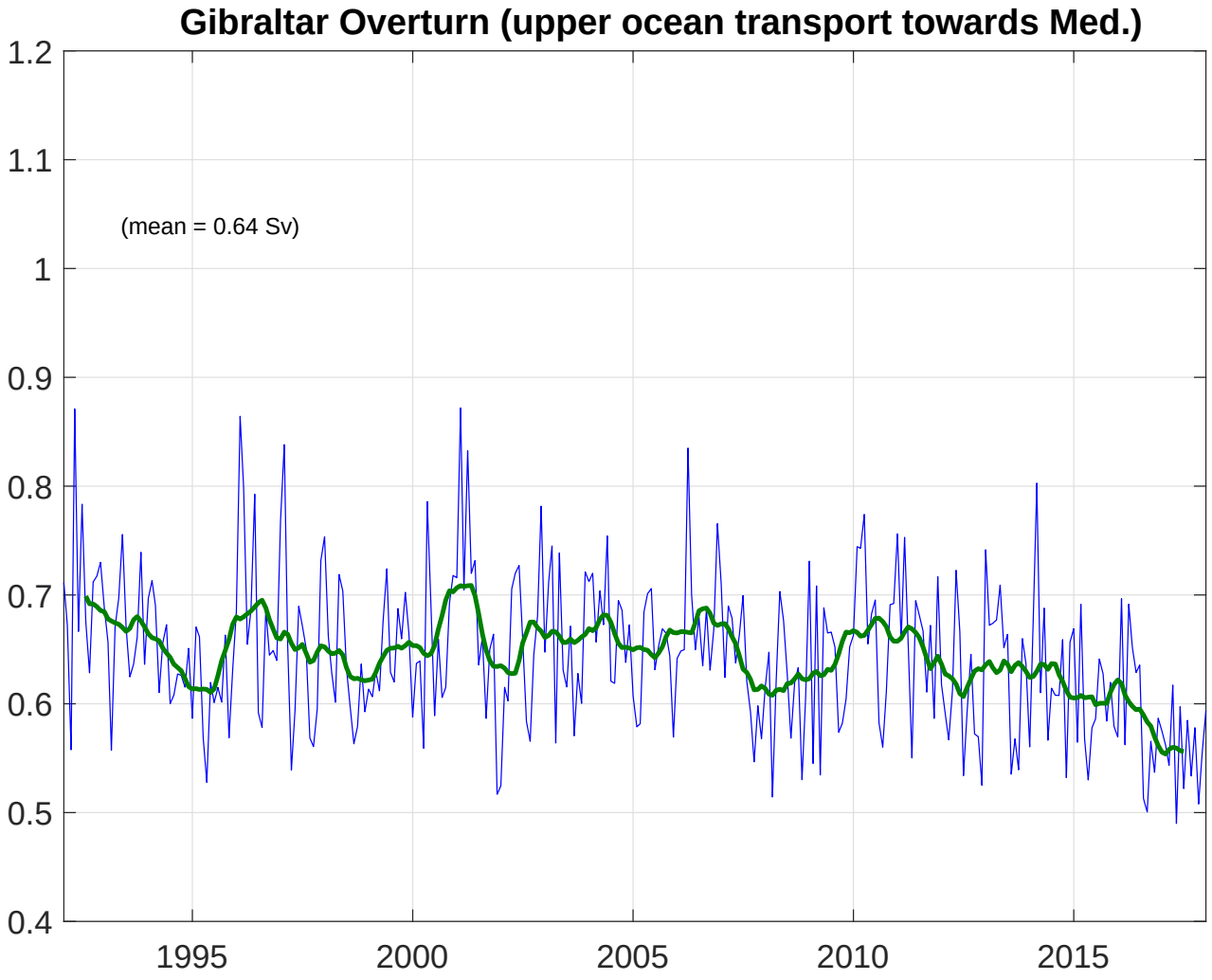

Figure : Gibraltar Overturn (Sv, annual mean)

transects transport

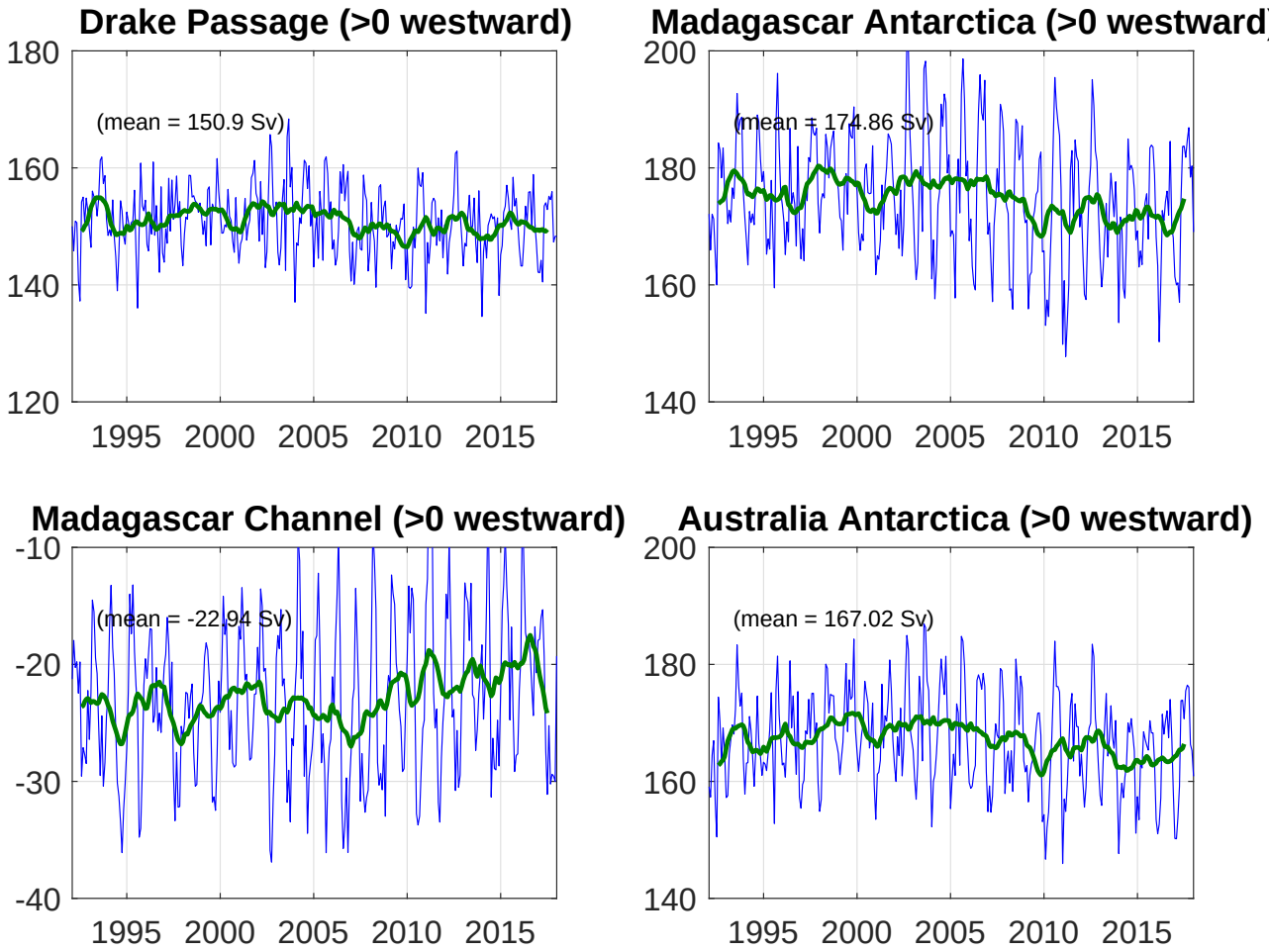

Figure : ACC Volume Transports (Sv, annual mean)

transects transport

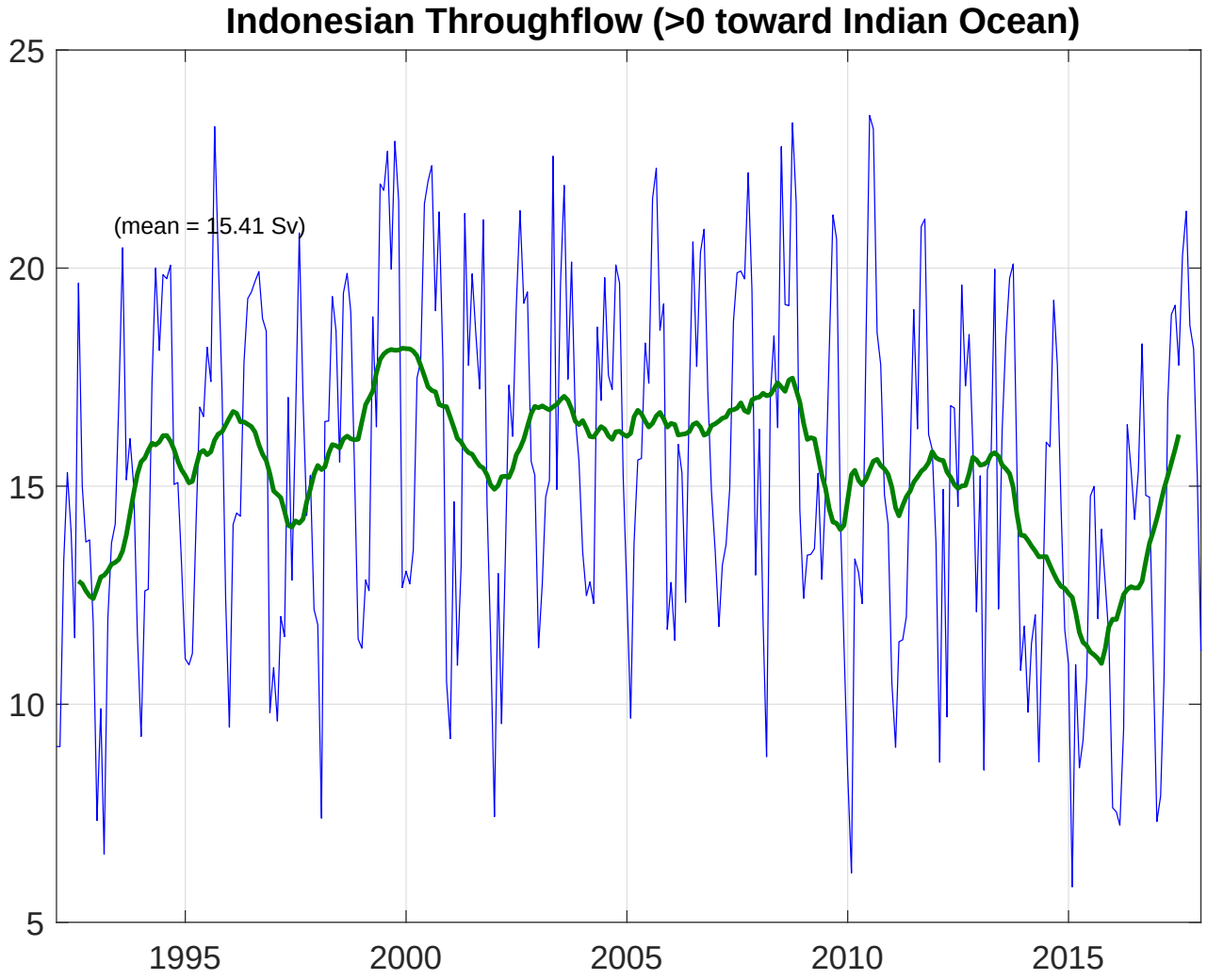

Figure : Indonesian Throughflow (Sv, annual mean)

sea surface height

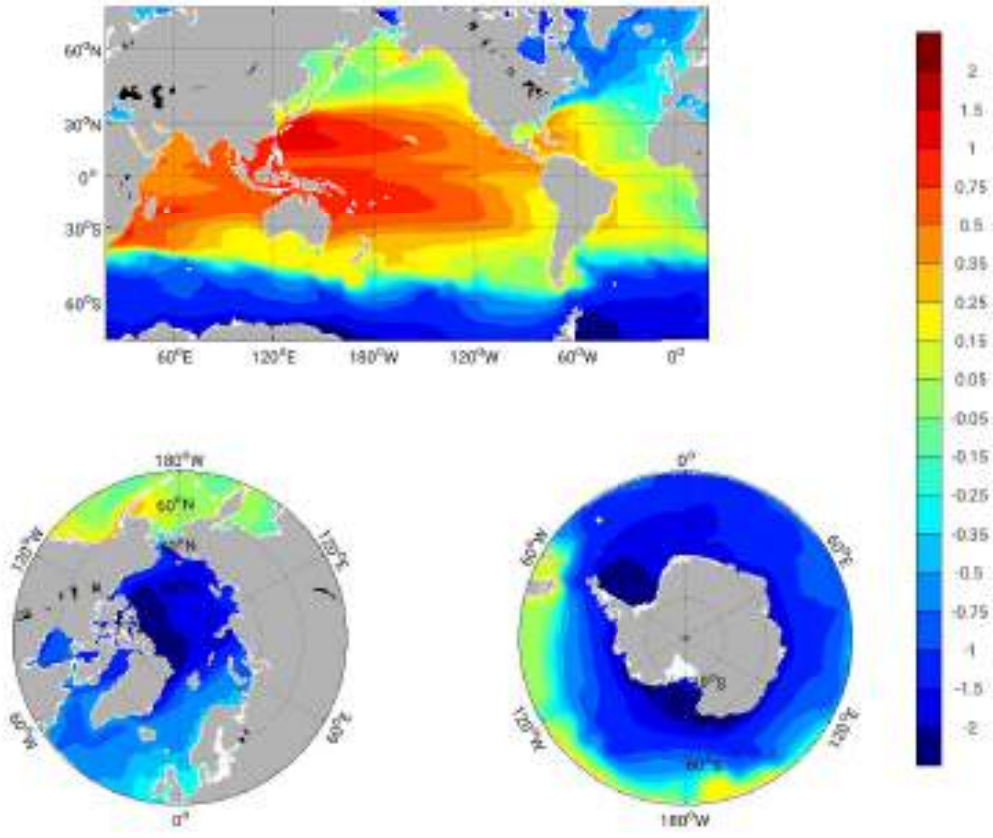

Figure : Sea Surface Height (EXCLUDING sea ice, in m): 1992 thru 2017 Mean

sea surface height

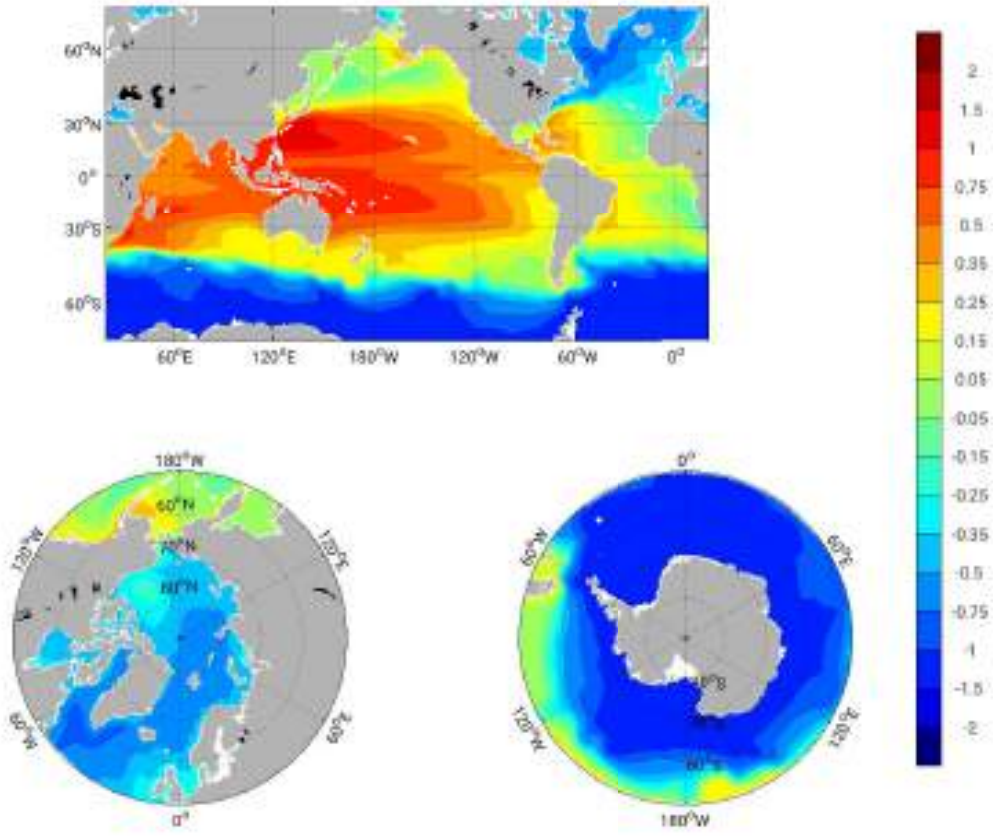

Figure : Sea Surface Height (INCLUDING sea ice, in m): 1992 thru 2017 Mean

sea surface height

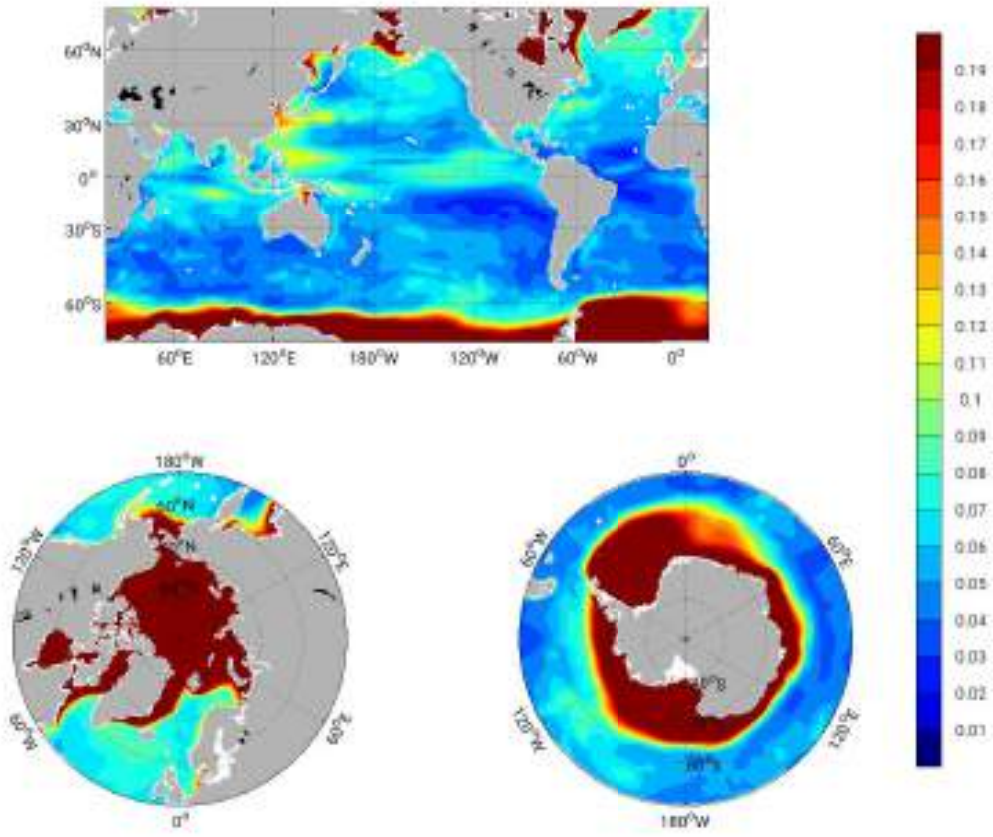

Figure : Sea Surface Height (EXCLUDING sea ice, in m): Standard Deviation, 1992 thru 2017

sea surface height

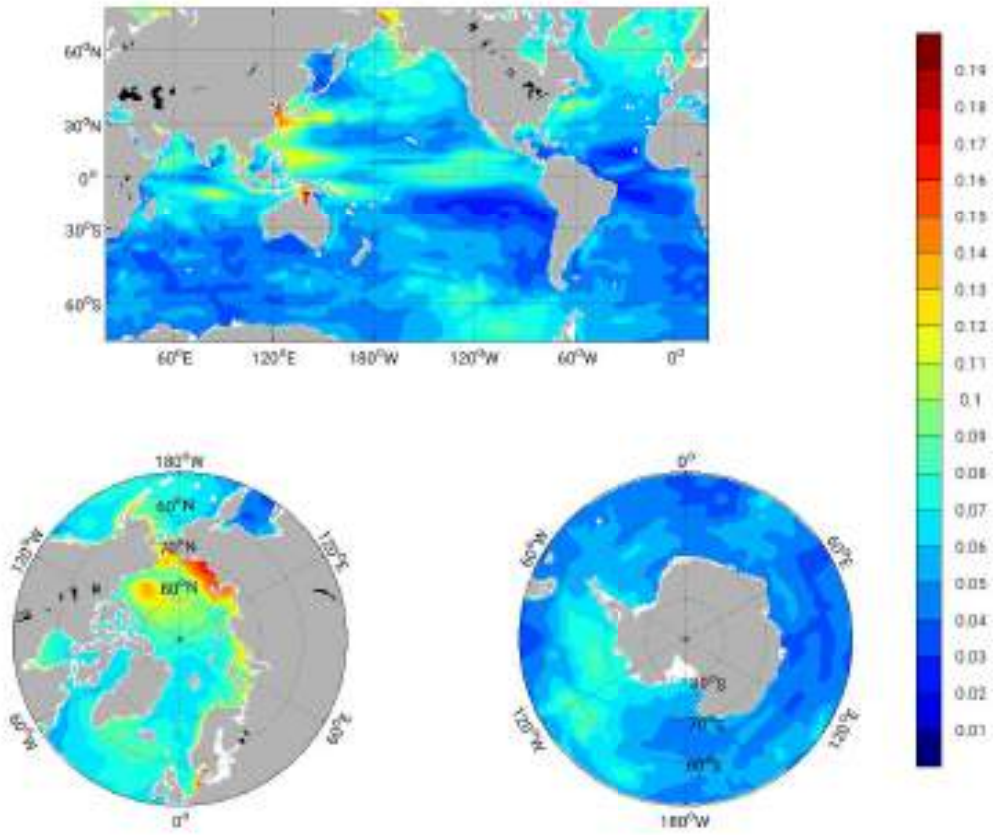

Figure : Sea Surface Height (INCLUDING sea ice, in m): Standard Deviation, 1992 thru 2017

3D state variables

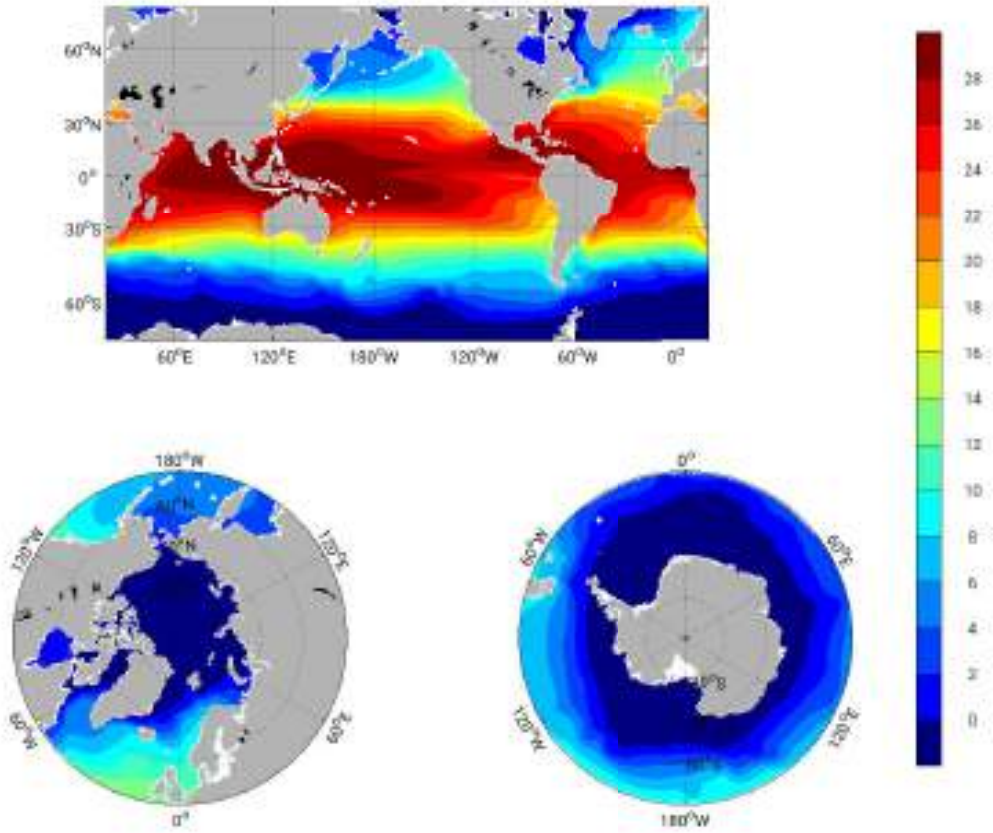

Figure : Temperature (C) at 5m : 1992 thru 2017 Mean

3D state variables

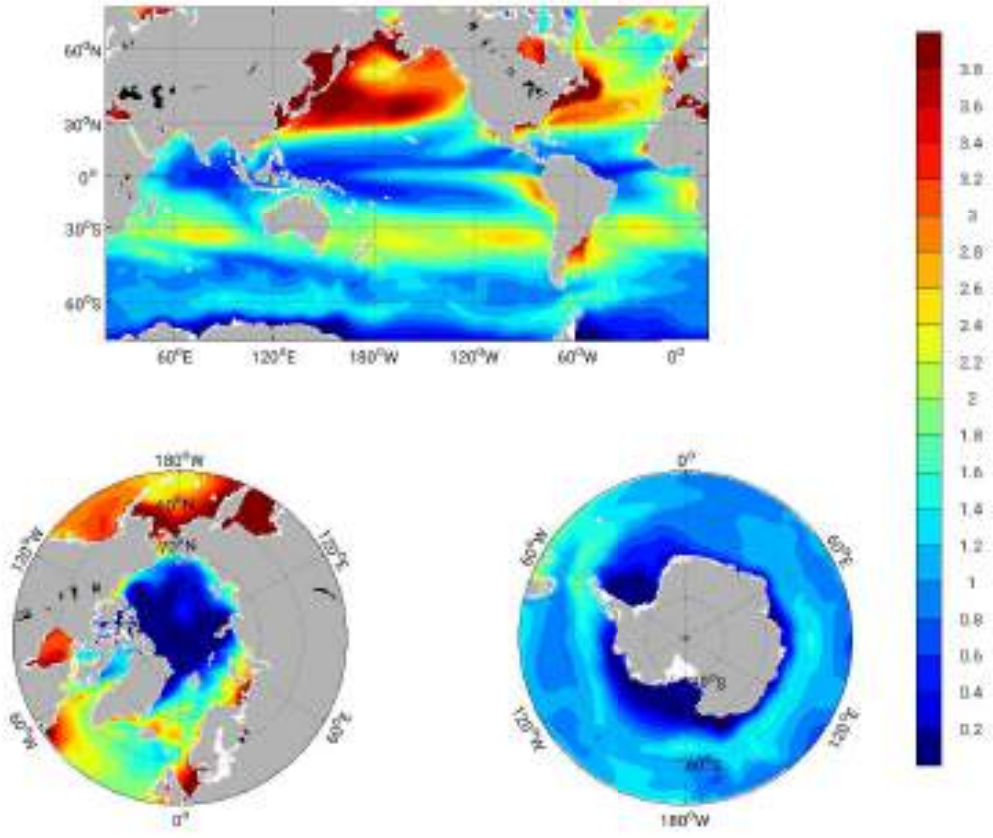

Figure : Temperature (C) at 5m : Standard Deviation, 1992 thru 2017

3D state variables

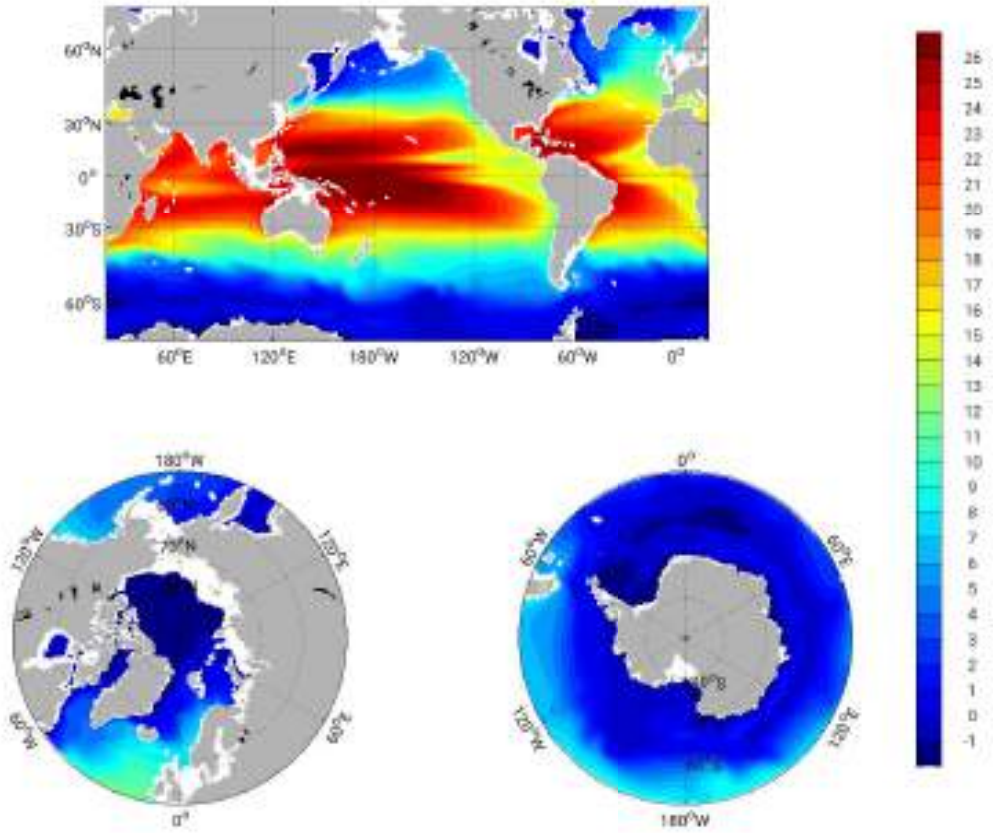

Figure : Temperature (C) at 105m : 1992 thru 2017 Mean

3D state variables

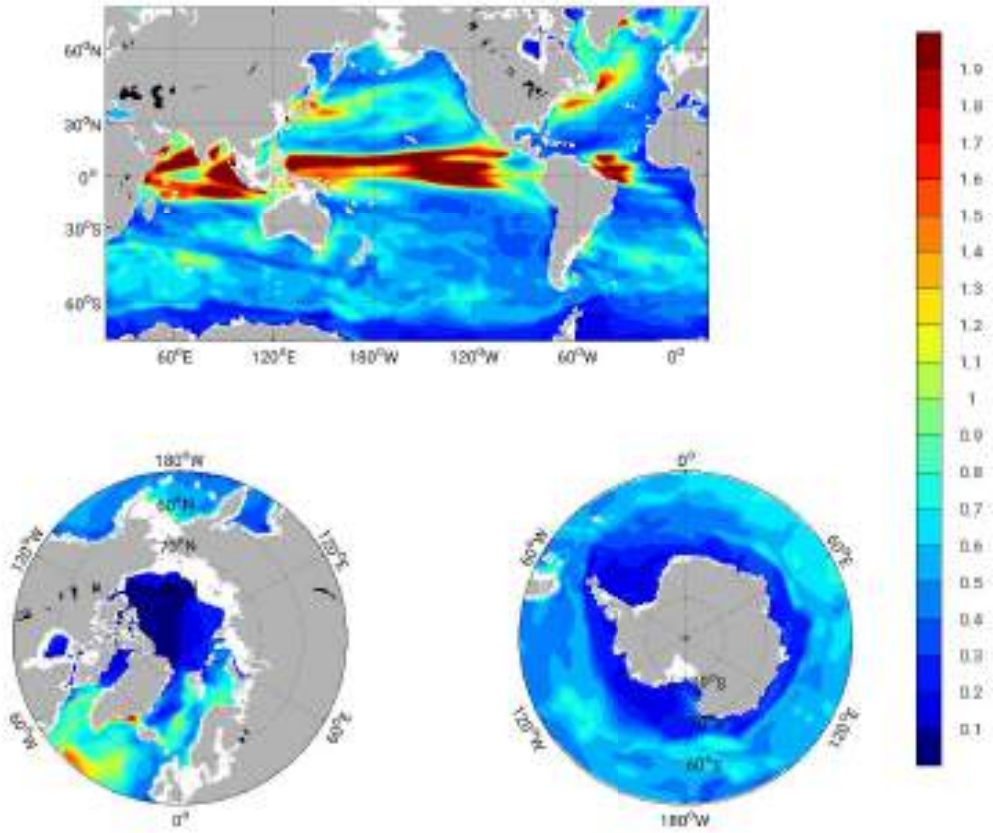

Figure : Temperature (C) at 105m : Standard Deviation, 1992 thru 2017

3D state variables

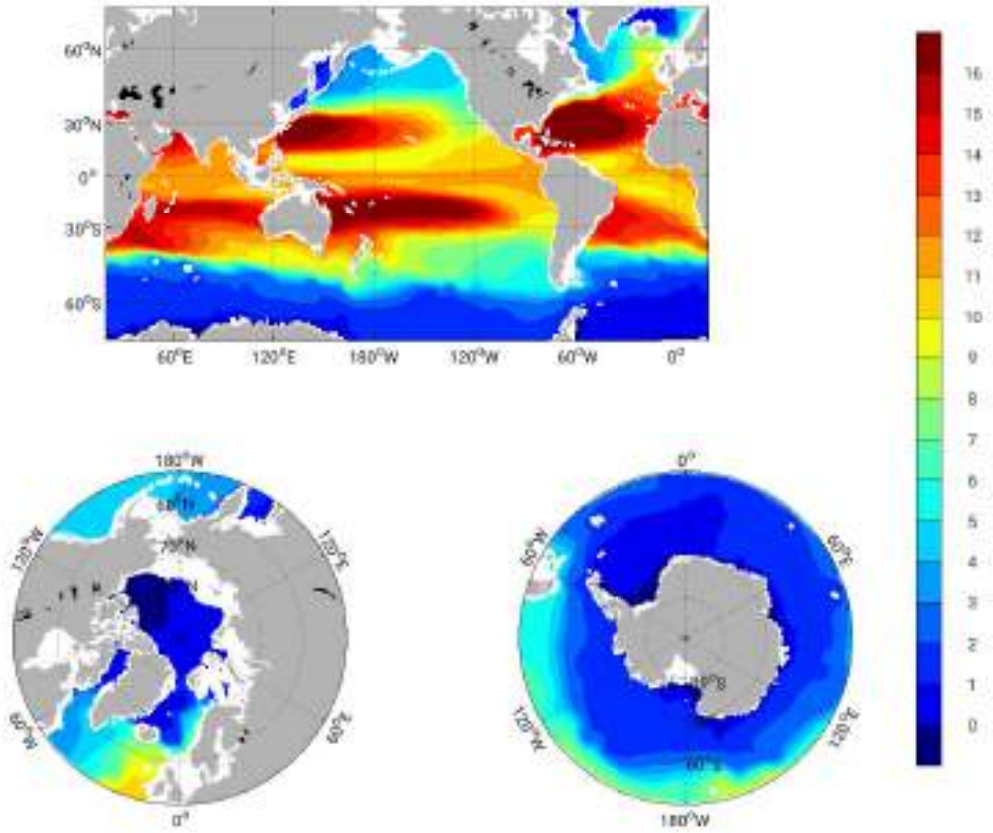

Figure : Temperature (C) at 300m : 1992 thru 2017 Mean

3D state variables

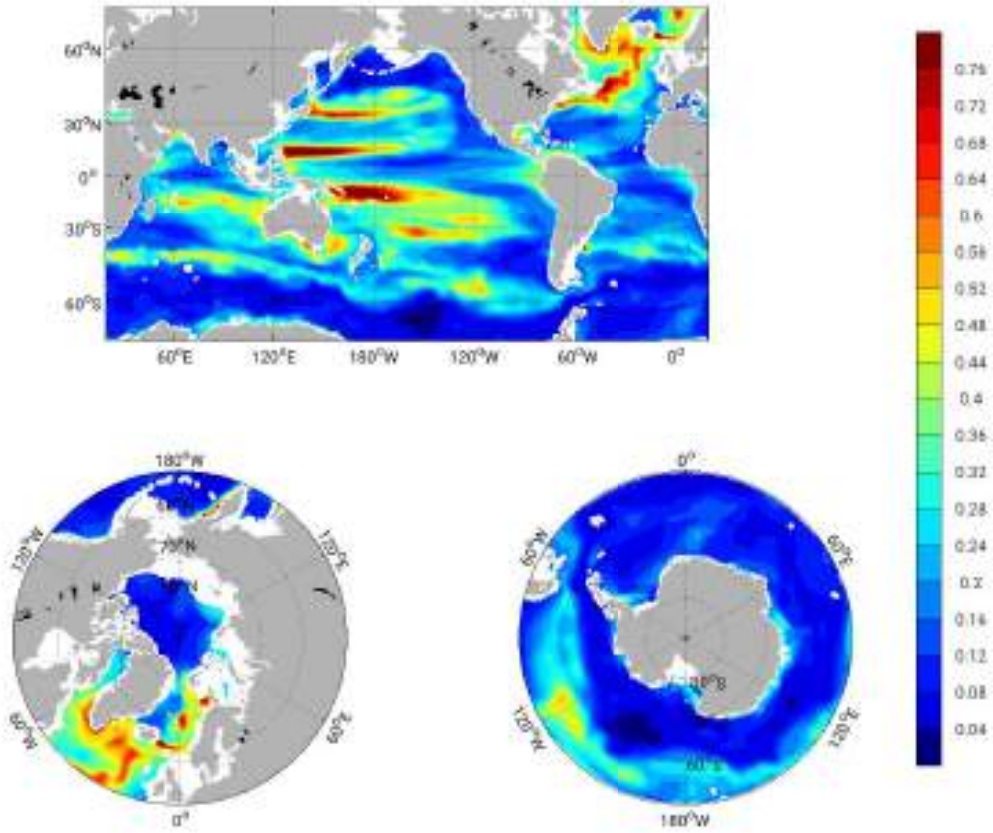

Figure : Temperature (C) at 300m : Standard Deviation, 1992 thru 2017

3D state variables

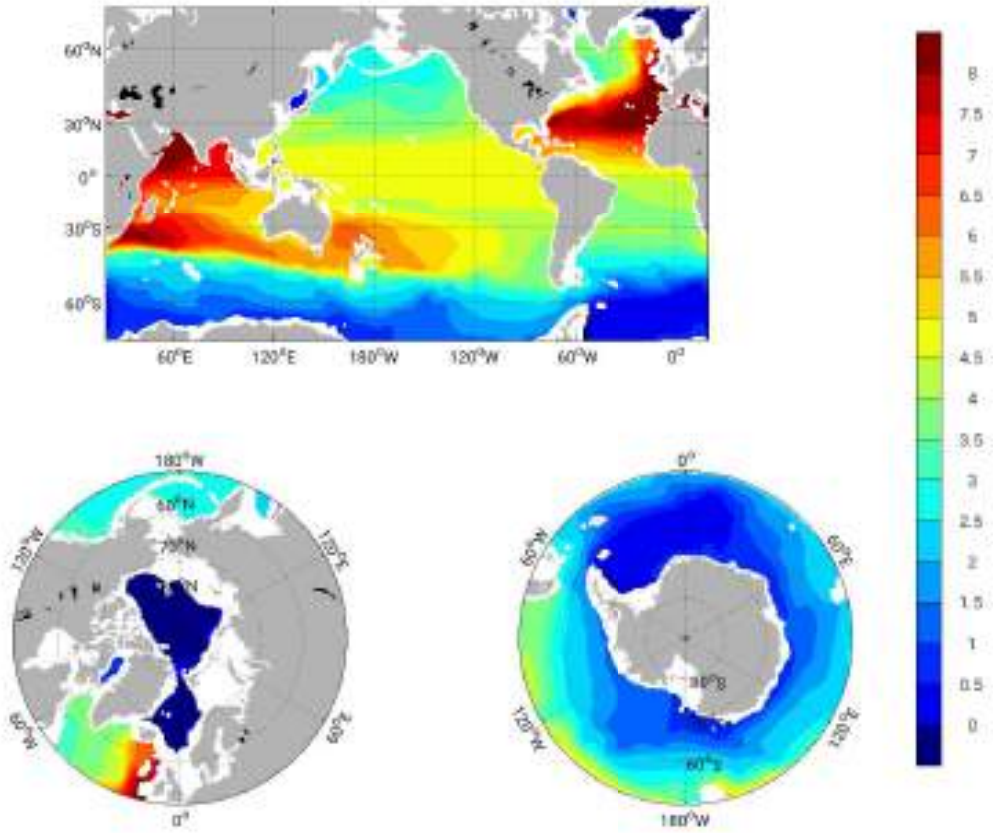

Figure : Temperature (C) at 910m : 1992 thru 2017 Mean

3D state variables

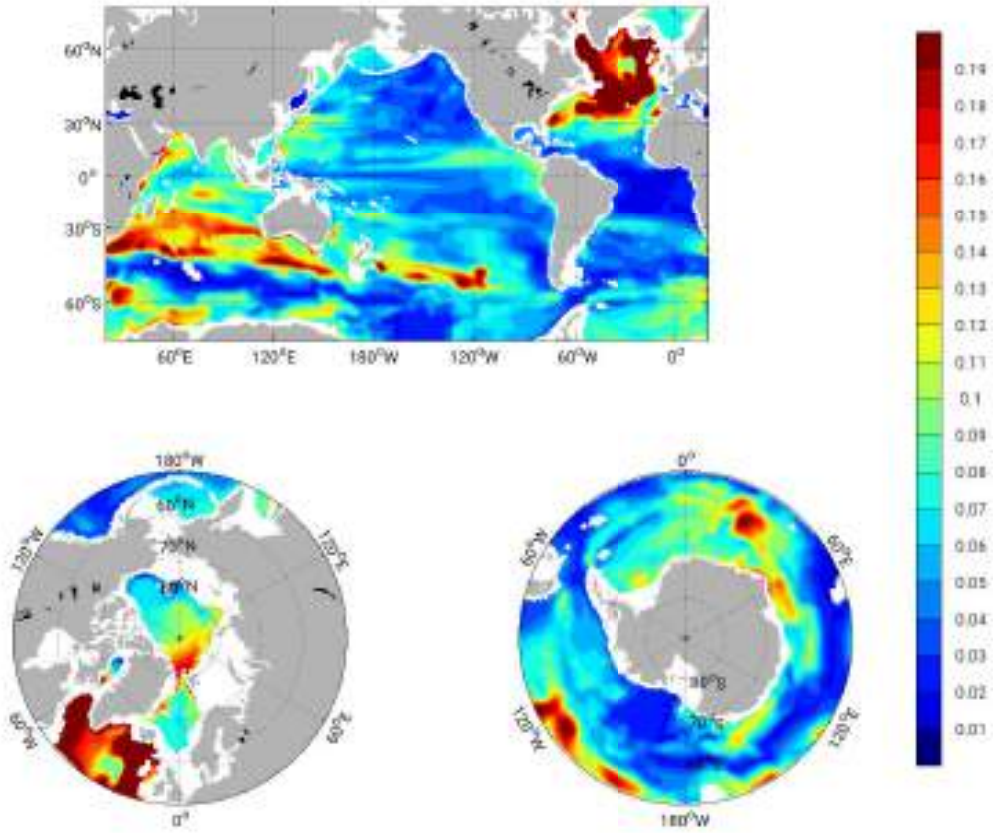

Figure : Temperature (C) at 910m : Standard Deviation, 1992 thru 2017

3D state variables

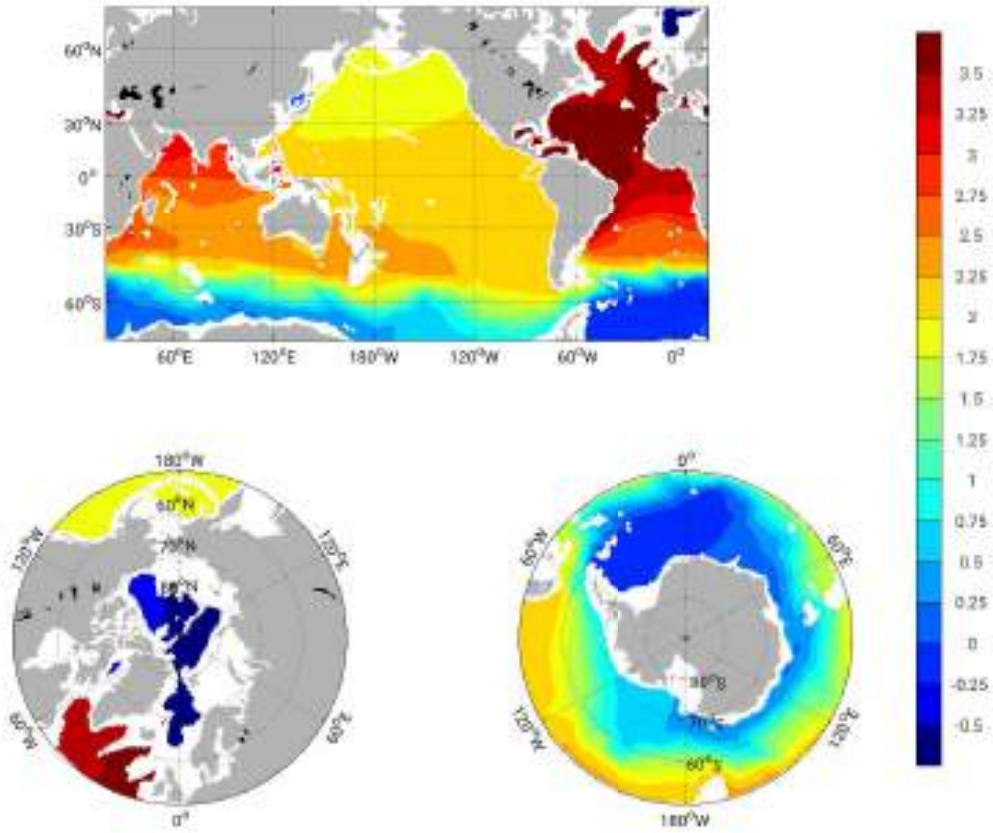

Figure : Temperature (C) at 1914m : 1992 thru 2017 Mean

3D state variables

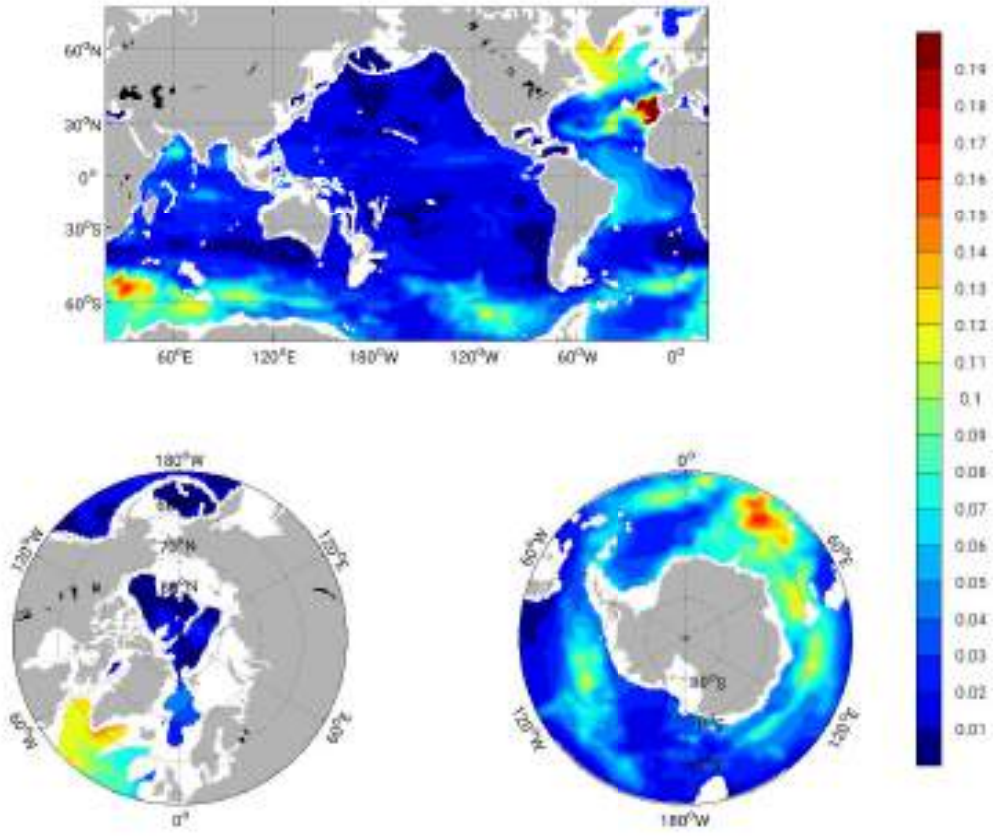

Figure : Temperature (C) at 1914m : Standard Deviation, 1992 thru 2017

3D state variables

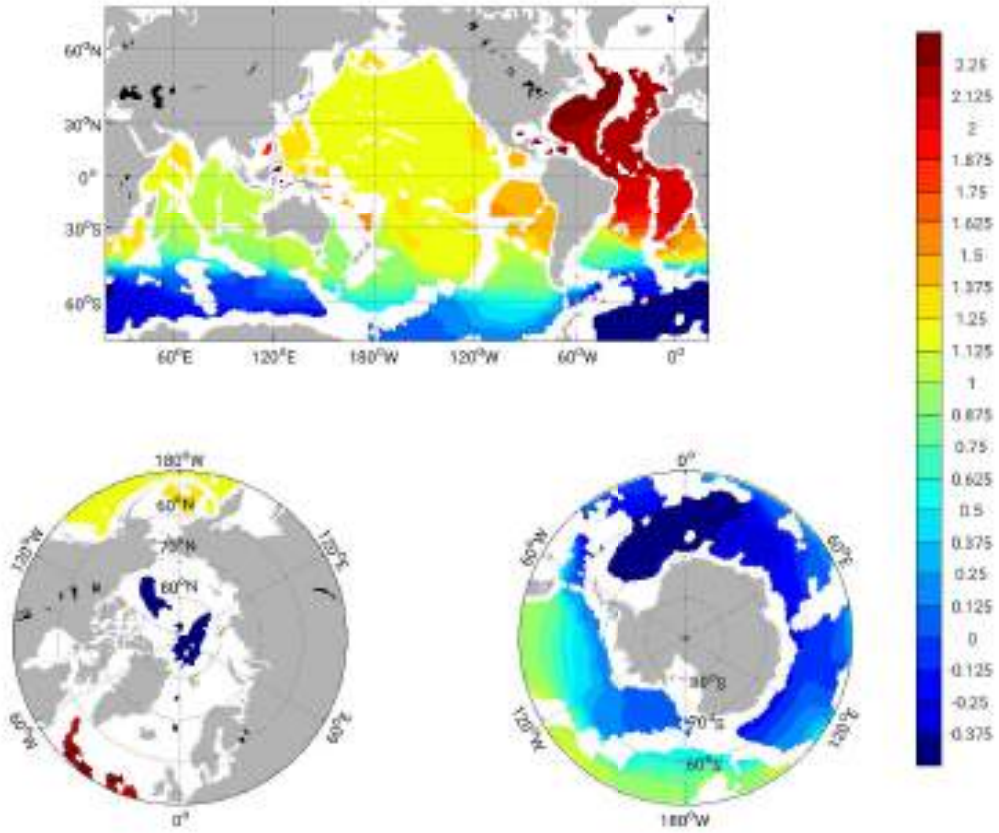

Figure : Temperature (C) at 3581m : 1992 thru 2017 Mean

3D state variables

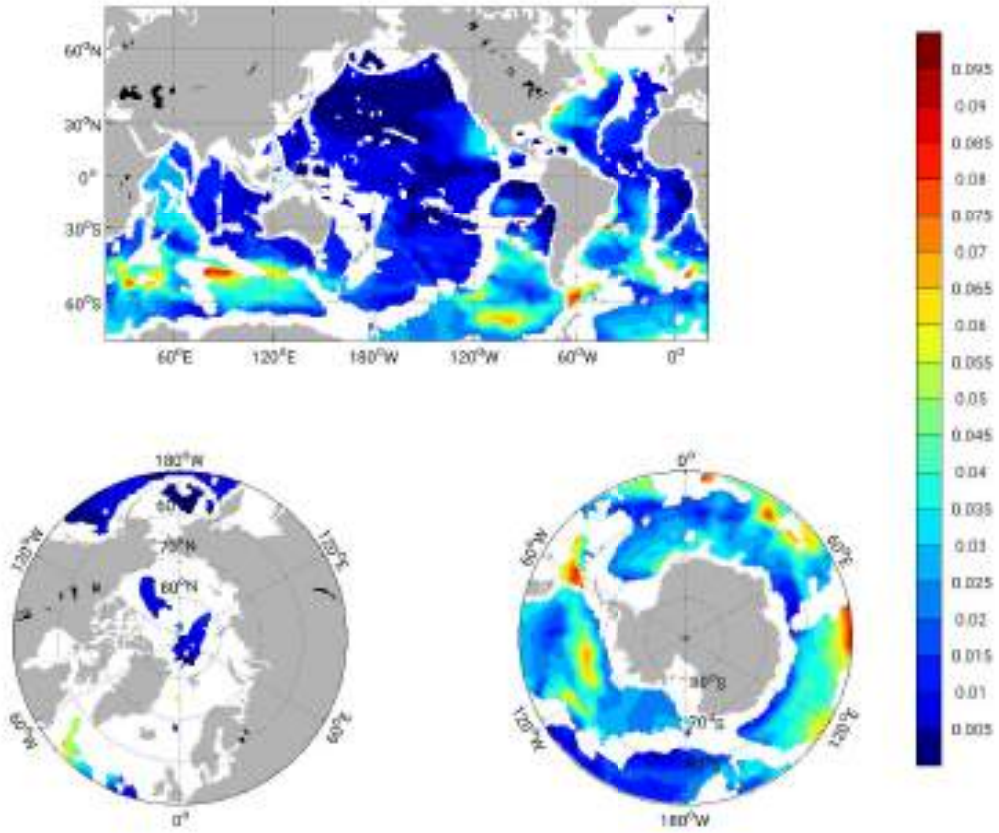

Figure : Temperature (C) at 3581m : Standard Deviation, 1992 thru 2017

3D state variables

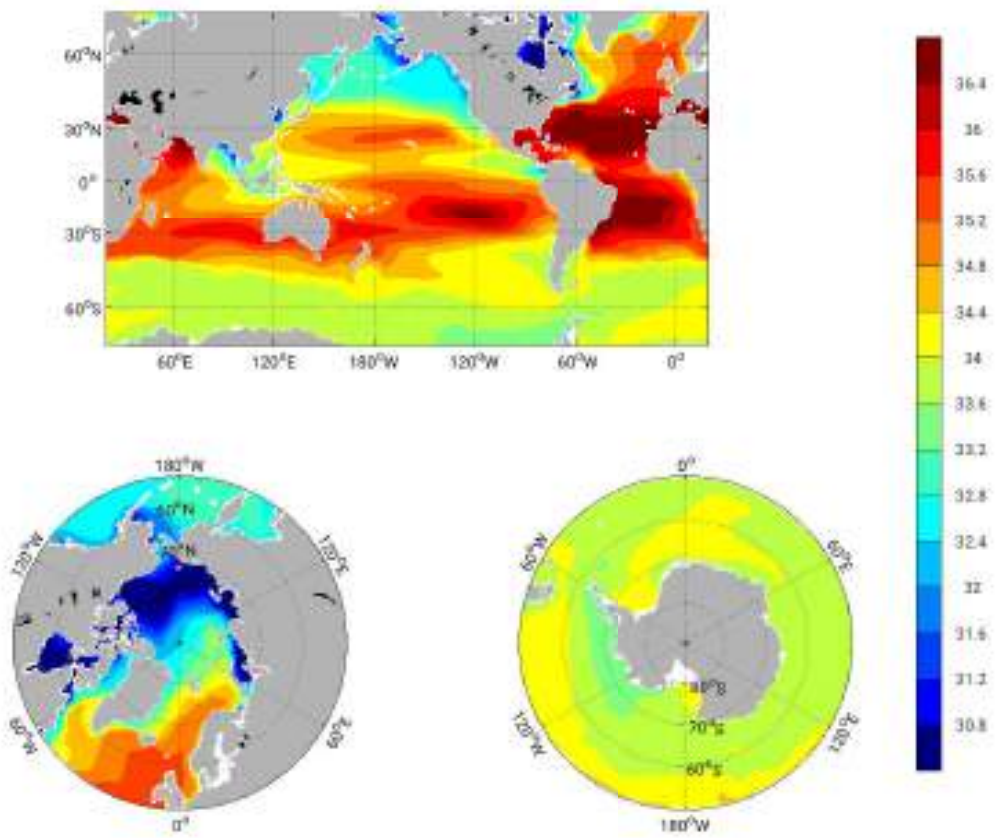

Figure : Salinity (psu) at 5m : 1992 thru 2017 Mean

3D state variables

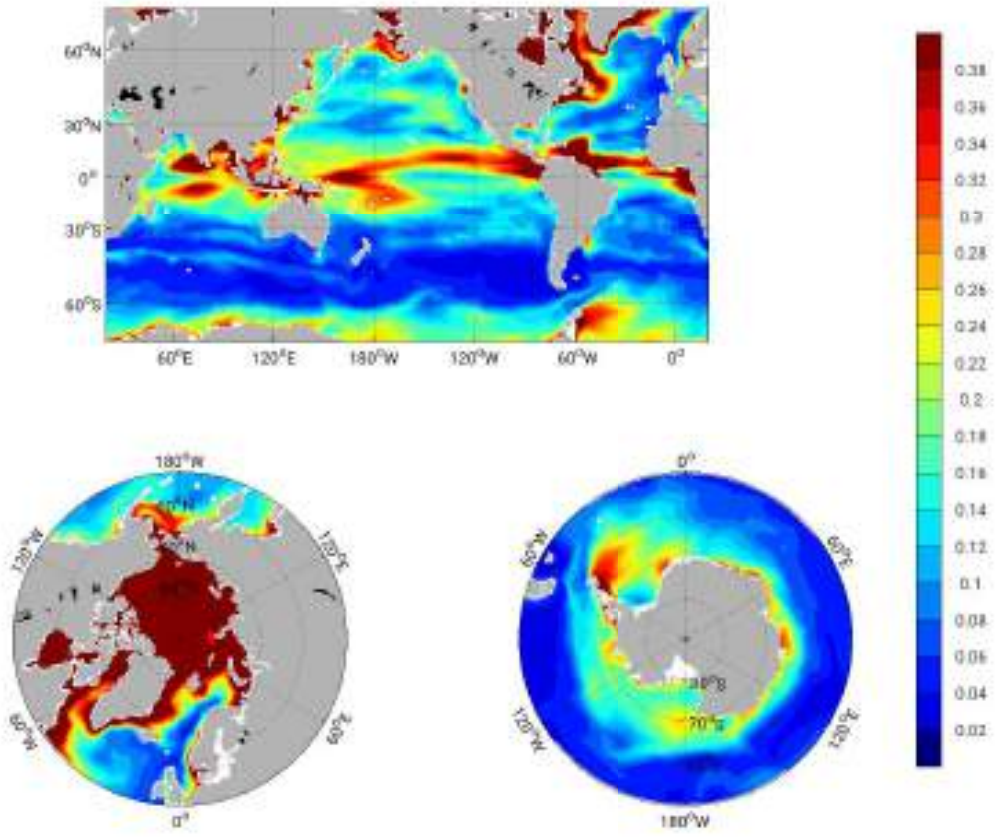

Figure : Salinity (psu) at 5m : Standard Deviation, 1992 thru 2017

3D state variables

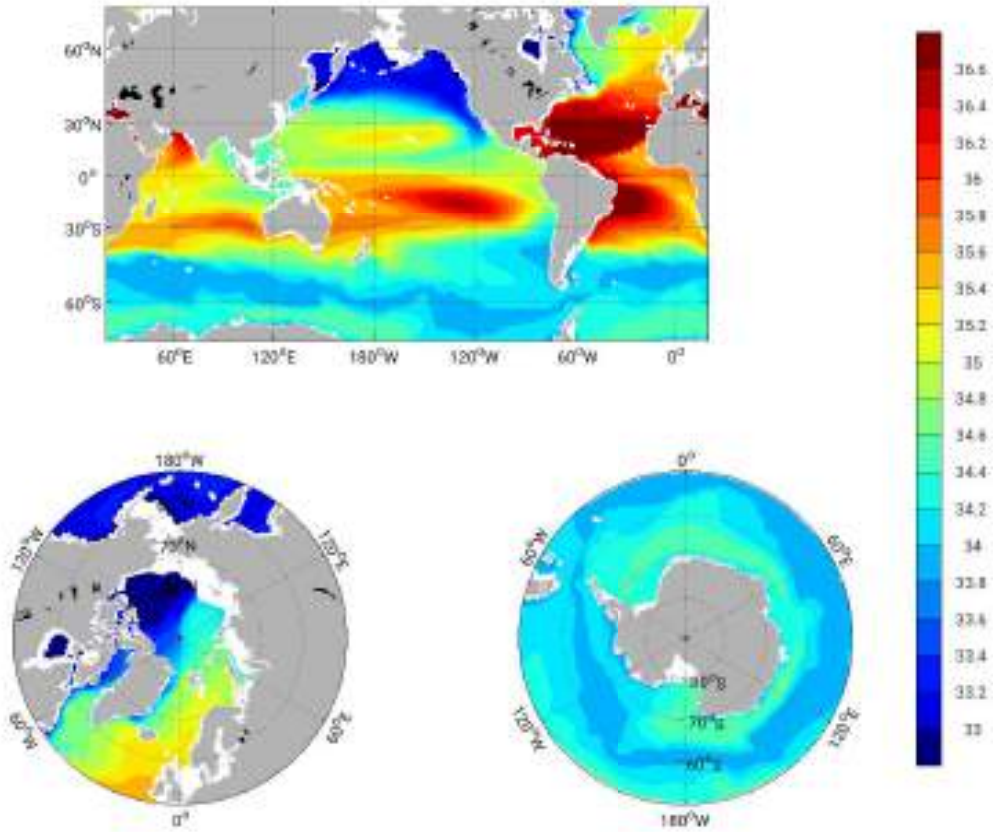

Figure : Salinity (psu) at 105m : 1992 thru 2017 Mean

3D state variables

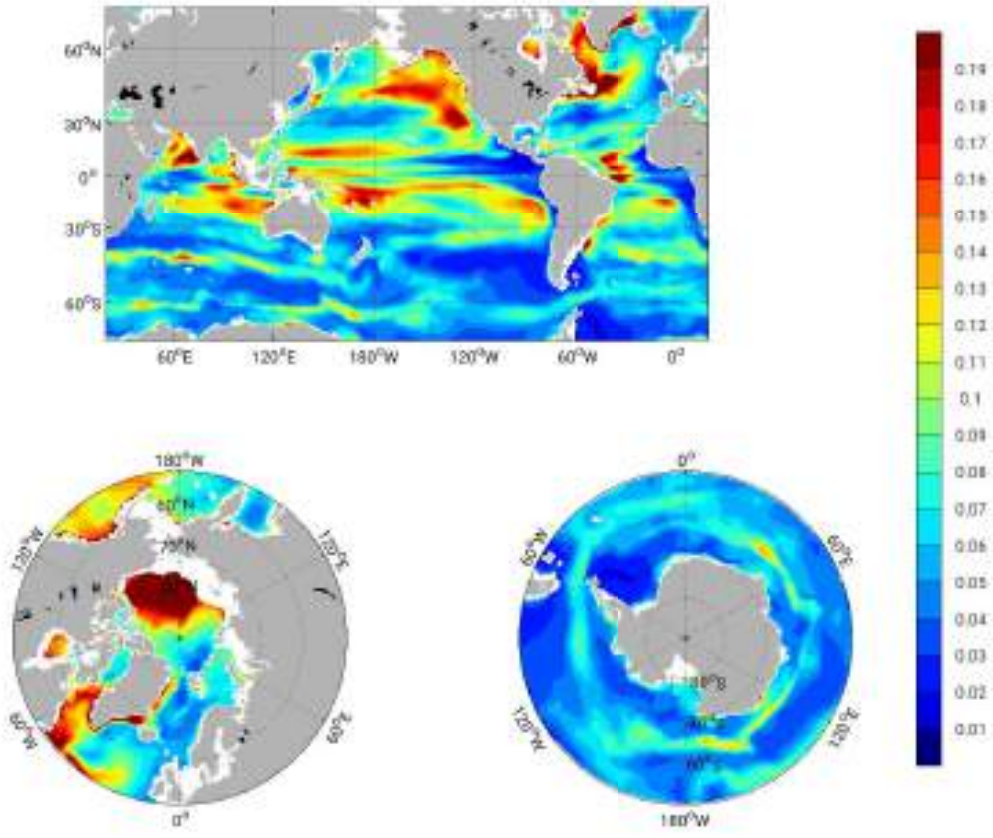

Figure : Salinity (psu) at 105m : Standard Deviation, 1992 thru 2017

3D state variables

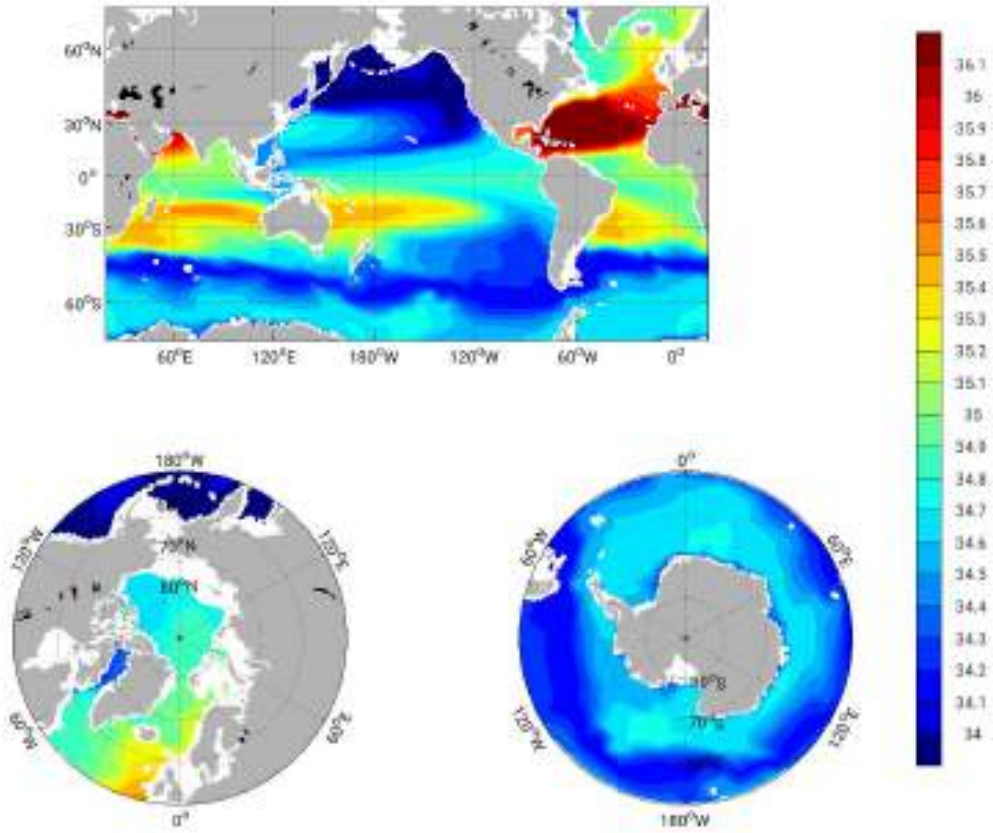

Figure : Salinity (psu) at 300m : 1992 thru 2017 Mean

3D state variables

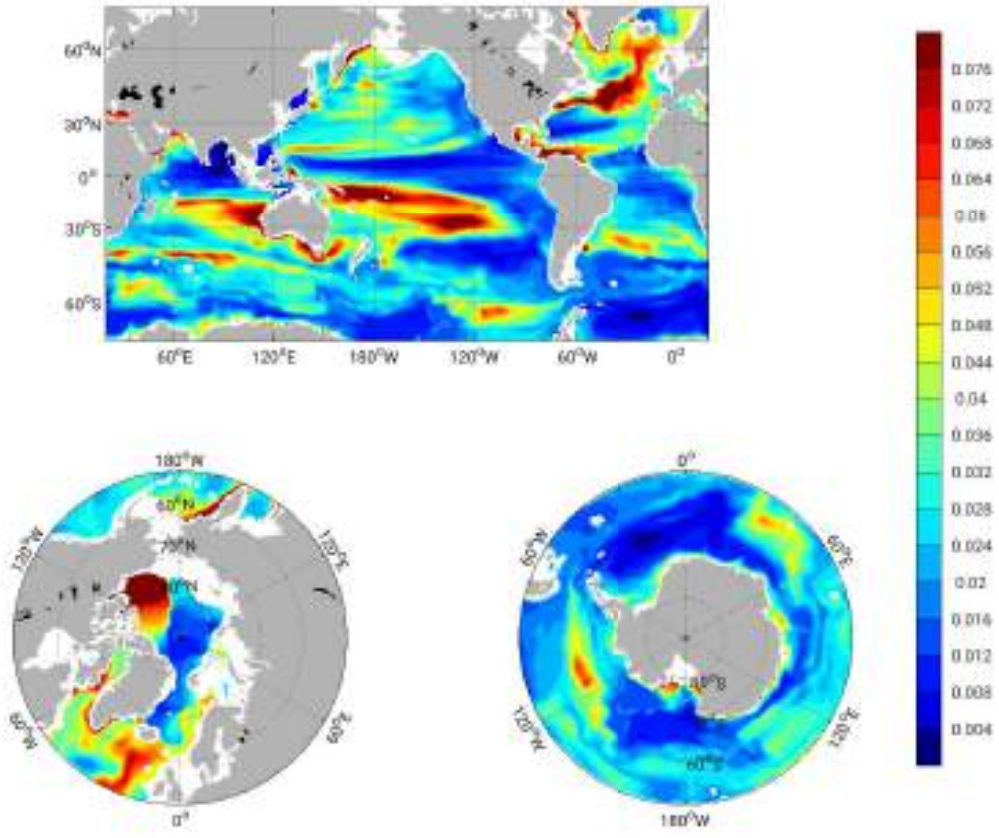

Figure : Salinity (psu) at 300m : Standard Deviation, 1992 thru 2017

3D state variables

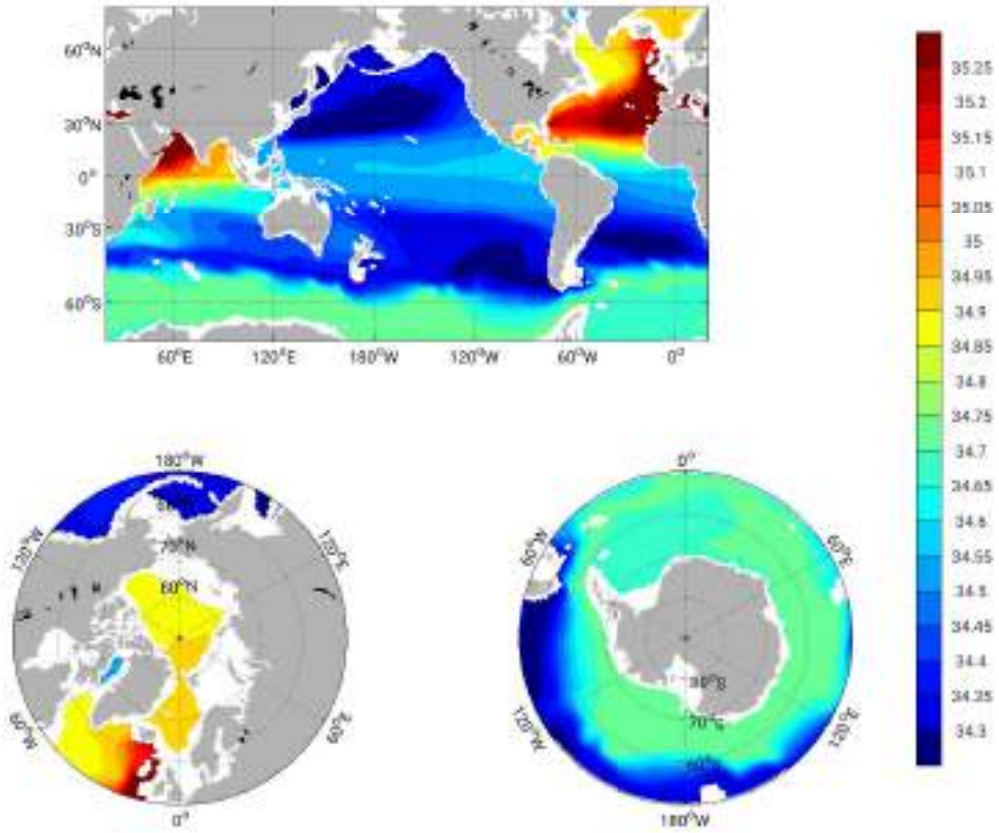

Figure : Salinity (psu) at 910m : 1992 thru 2017 Mean

3D state variables

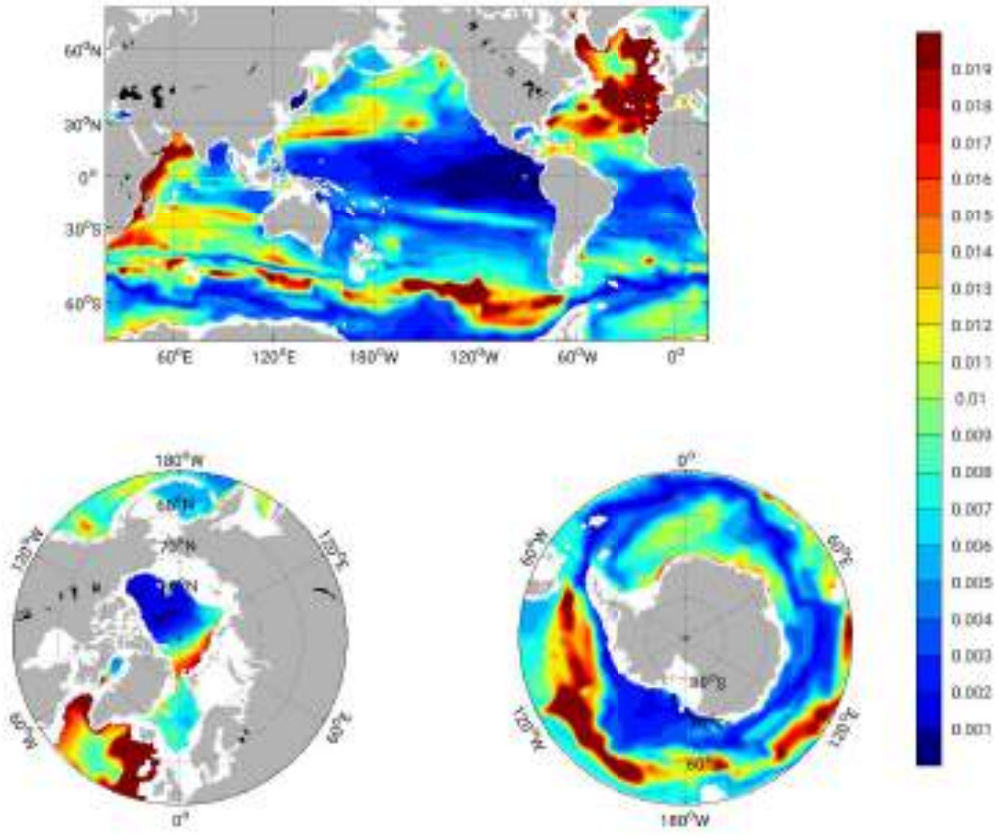

Figure : Salinity (psu) at 910m : Standard Deviation, 1992 thru 2017

3D state variables

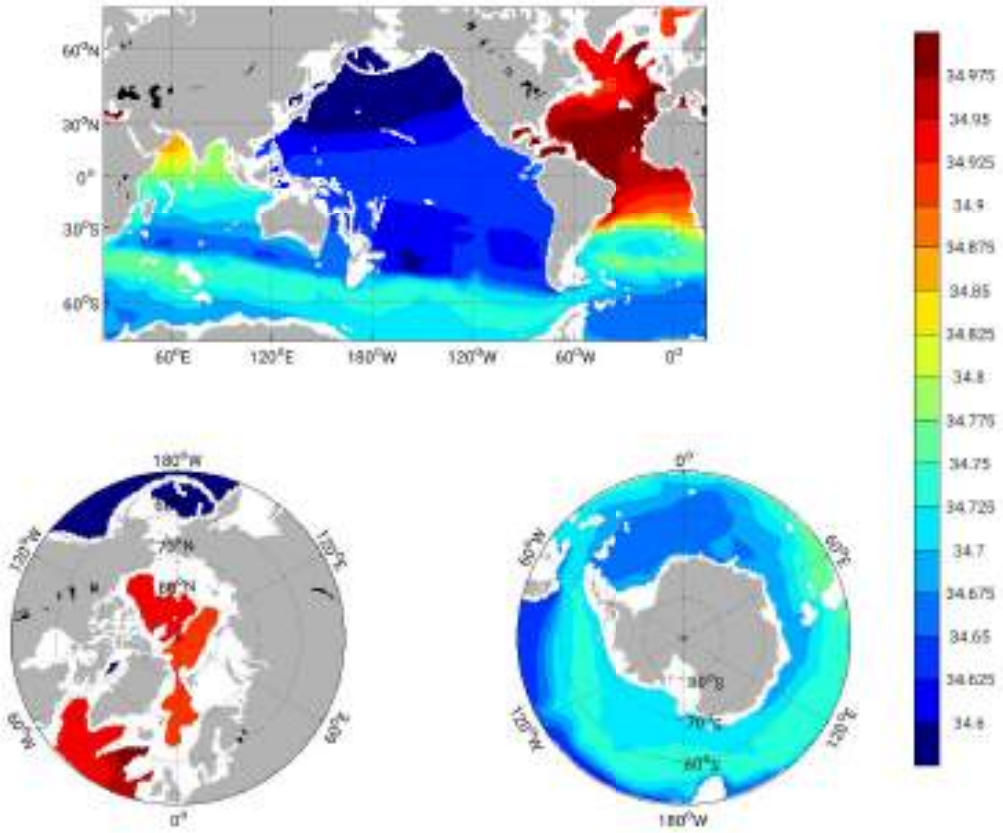

Figure : Salinity (psu) at 1914m : 1992 thru 2017 Mean

3D state variables

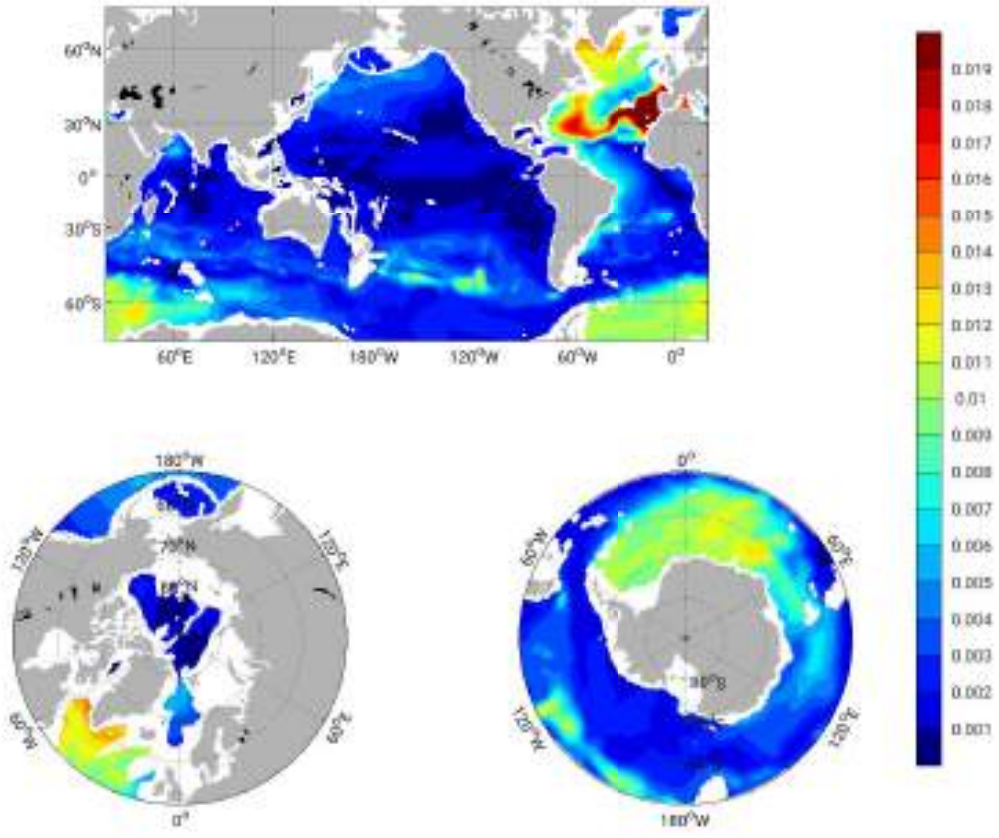

Figure : Salinity (psu) at 1914m : Standard Deviation, 1992 thru 2017

3D state variables

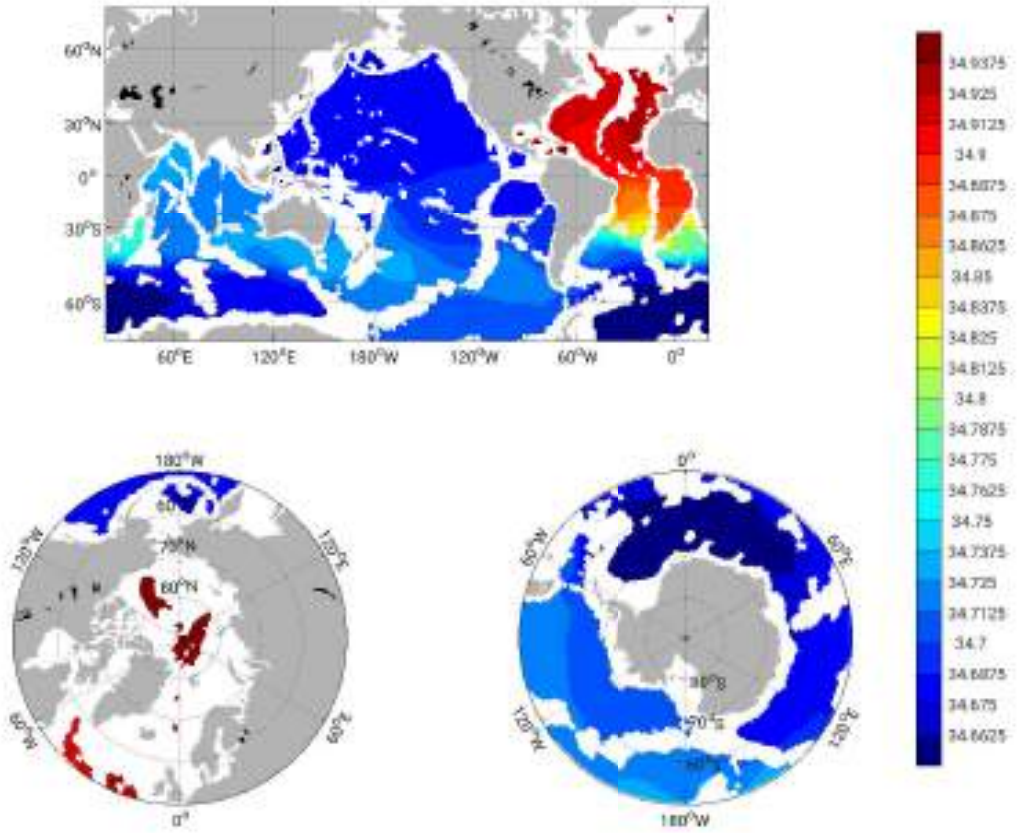

Figure : Salinity (psu) at 3581m : 1992 thru 2017 Mean

3D state variables

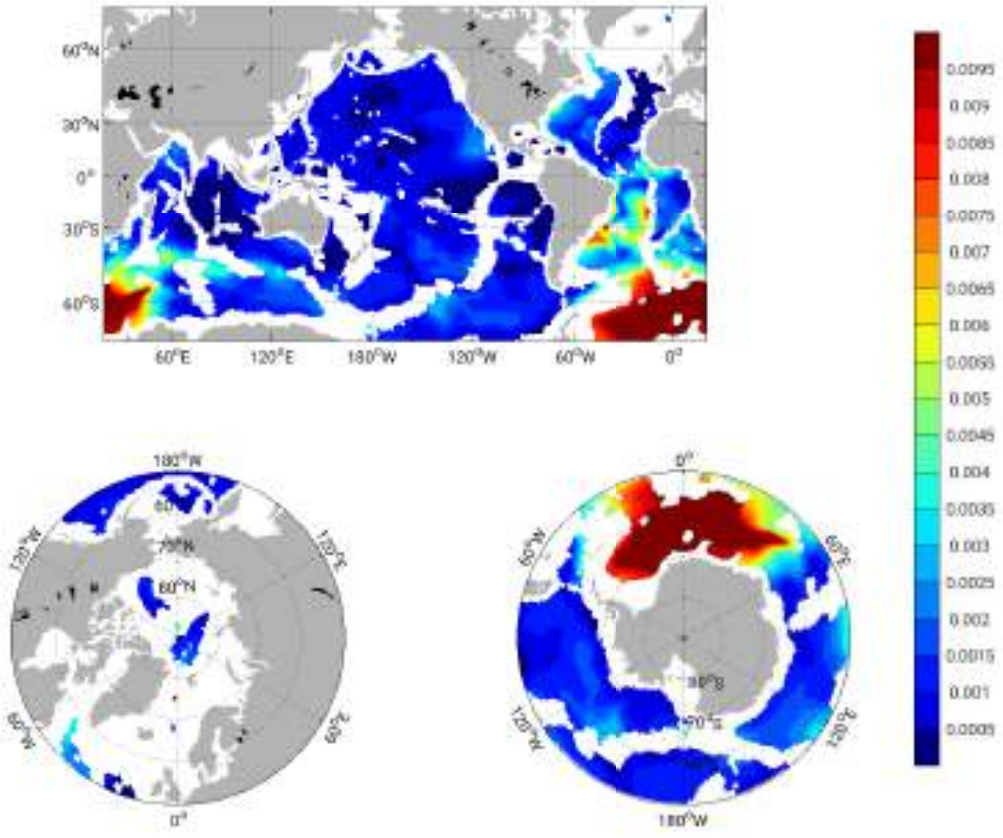

Figure : Salinity (psu) at 3581m : Standard Deviation, 1992 thru 2017

3D state variables

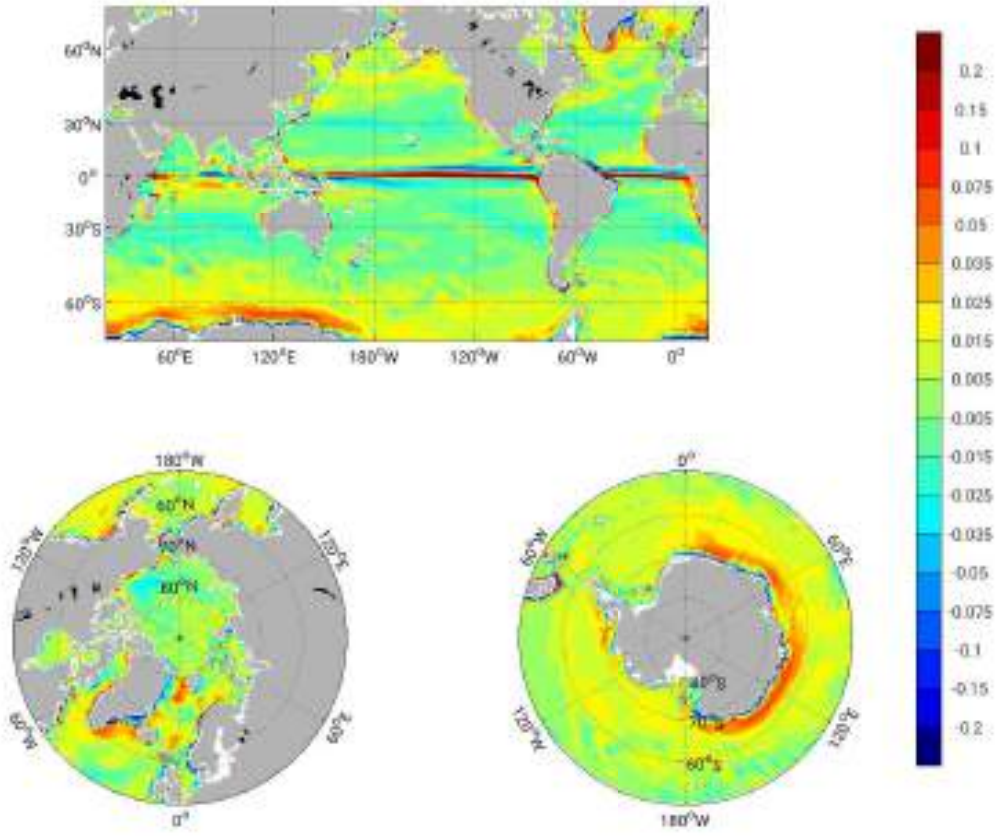

Figure : Vertical Velocity (mm/year) at 15m : 1992 thru 2017 Mean

3D state variables

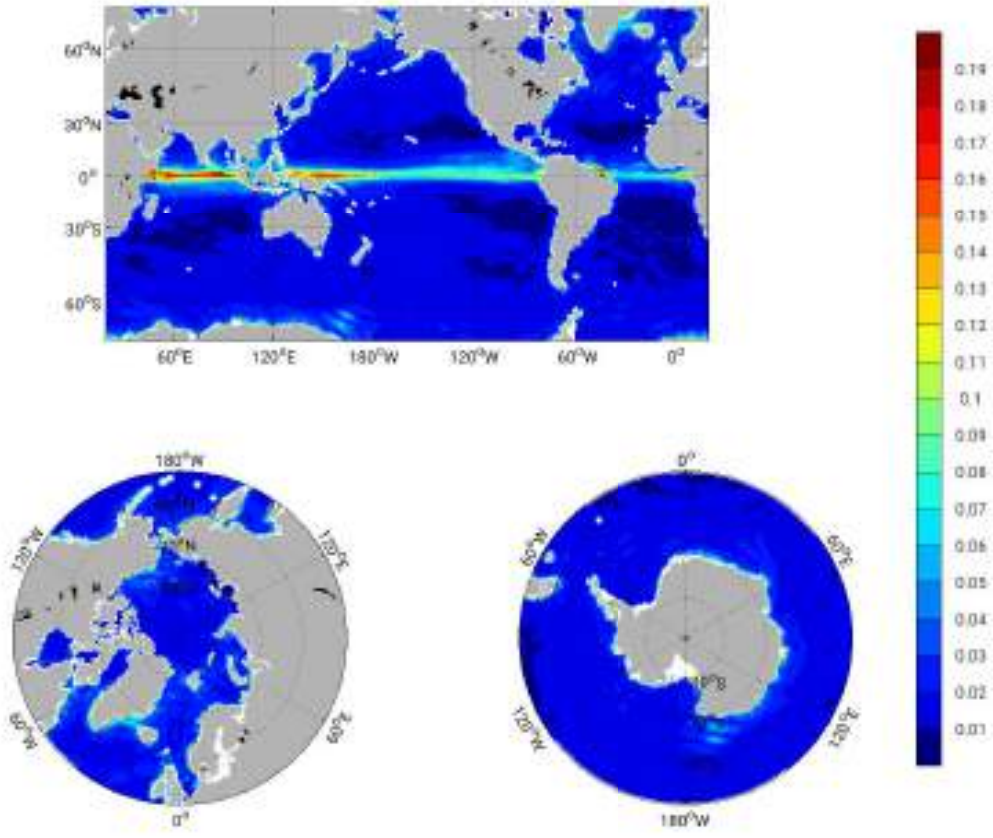

Figure : Vertical Velocity (mm/year) at 15m : Standard Deviation, 1992 thru 2017

3D state variables

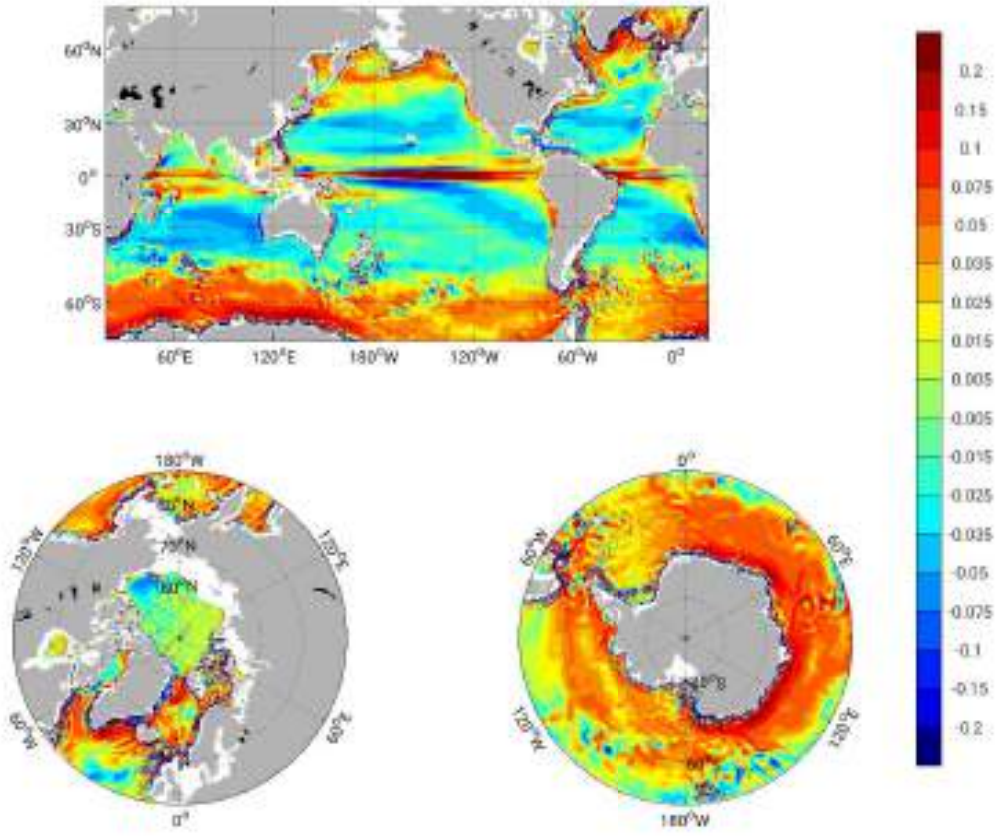

Figure : Vertical Velocity (mm/year) at 105m : 1992 thru 2017 Mean

3D state variables

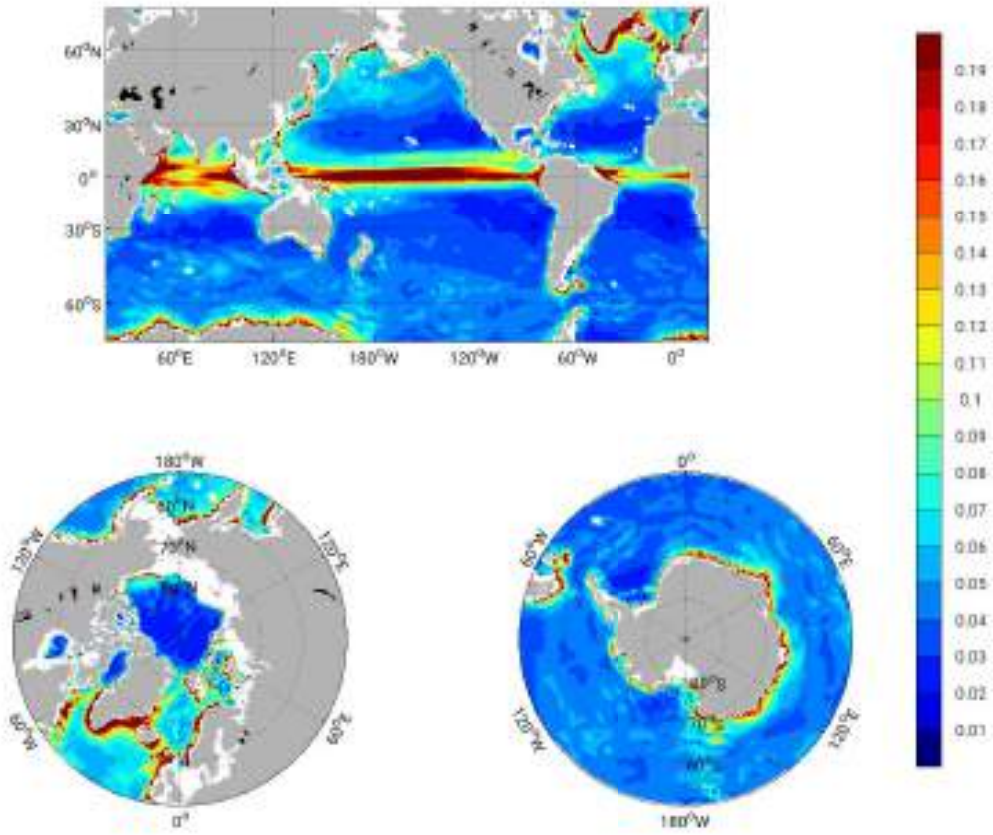

Figure : Vertical Velocity (mm/year) at 105m : Standard Deviation, 1992 thru 2017

3D state variables

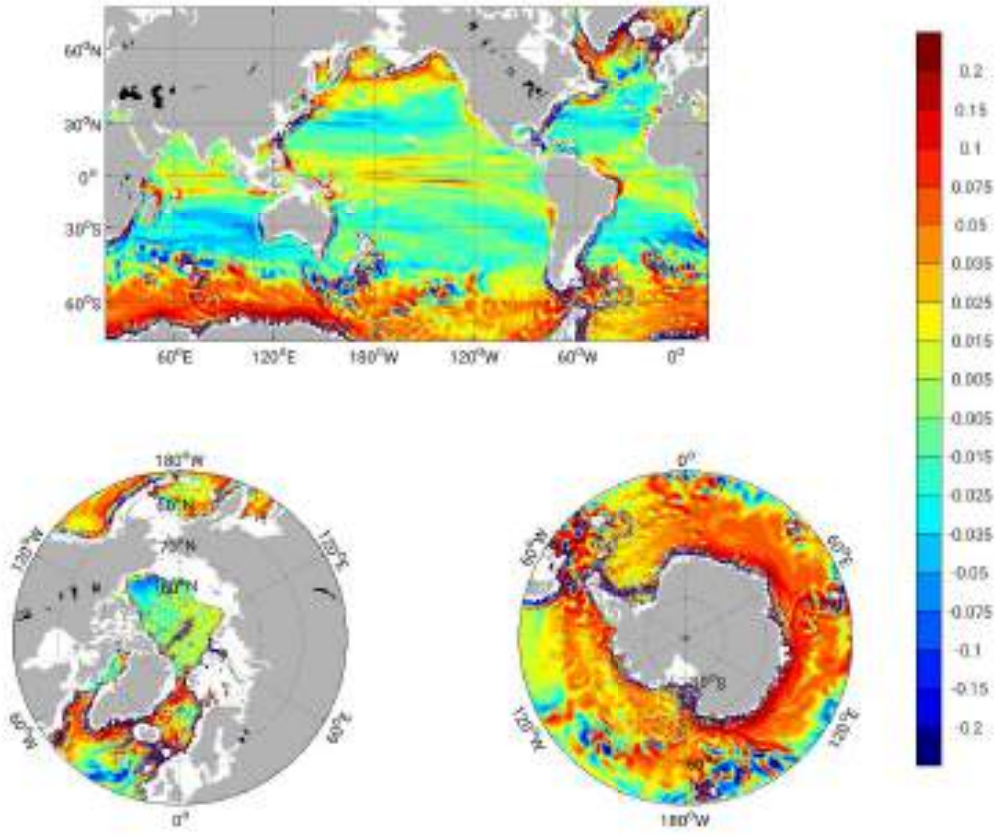

Figure : Vertical Velocity (mm/year) at 300m : 1992 thru 2017 Mean

3D state variables

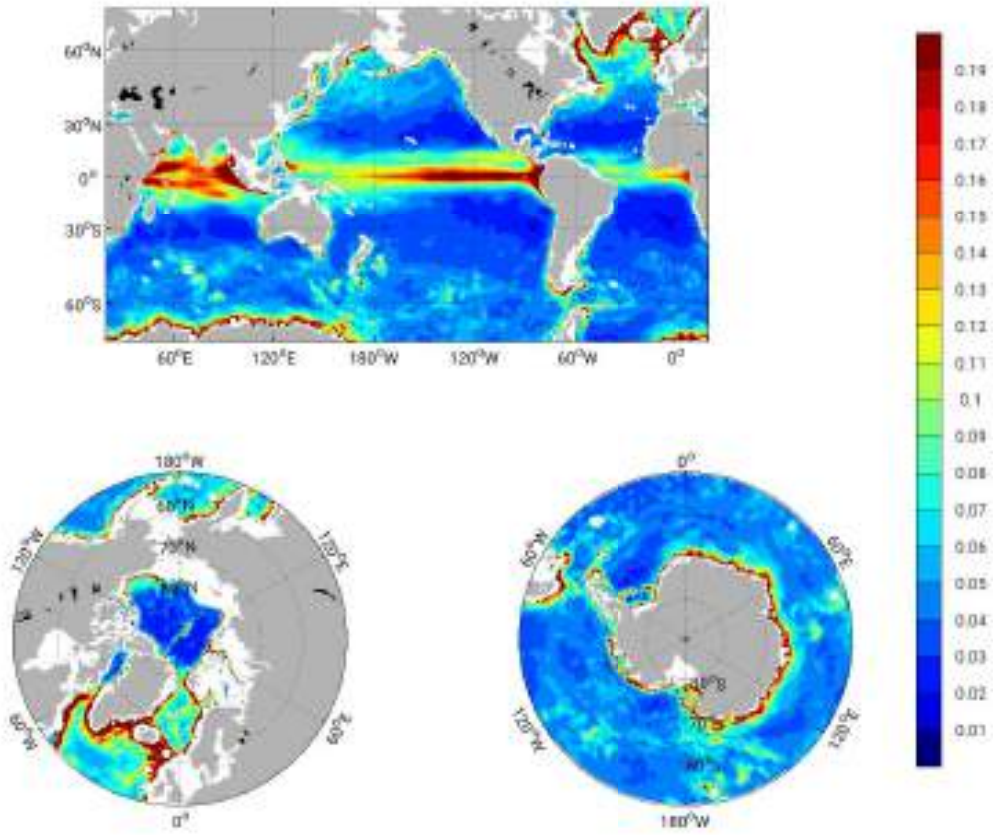

Figure : Vertical Velocity (mm/year) at 300m : Standard Deviation, 1992 thru 2017

3D state variables

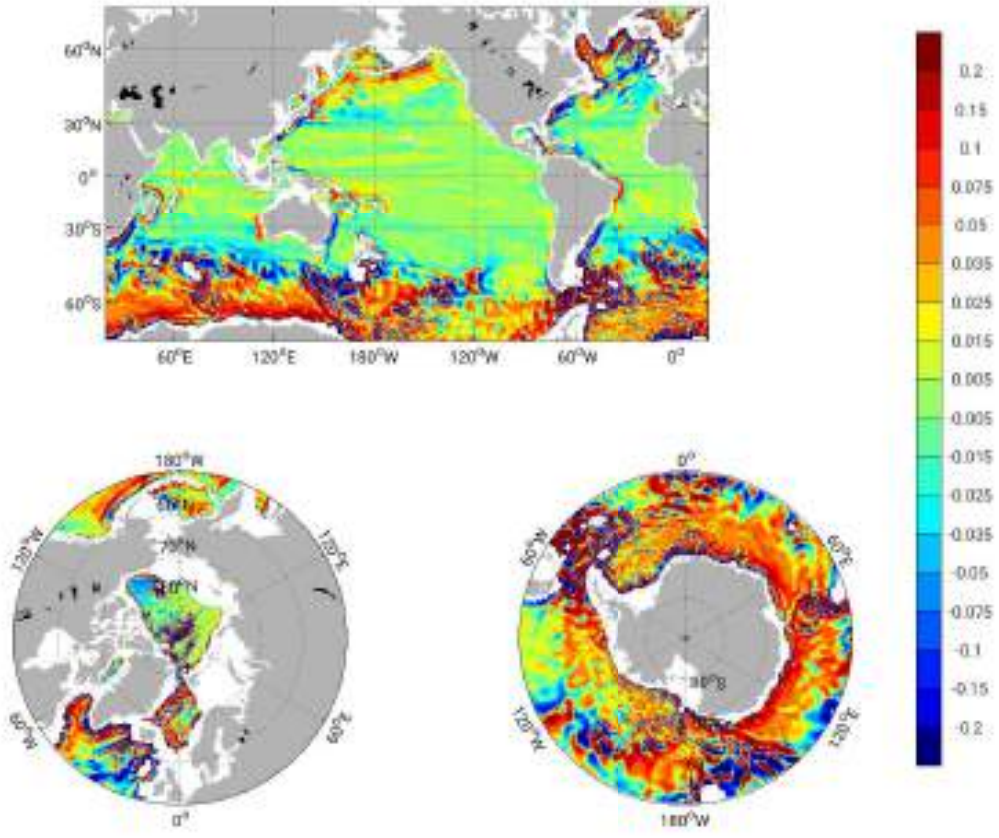

Figure : Vertical Velocity (mm/year) at 910m : 1992 thru 2017 Mean

3D state variables

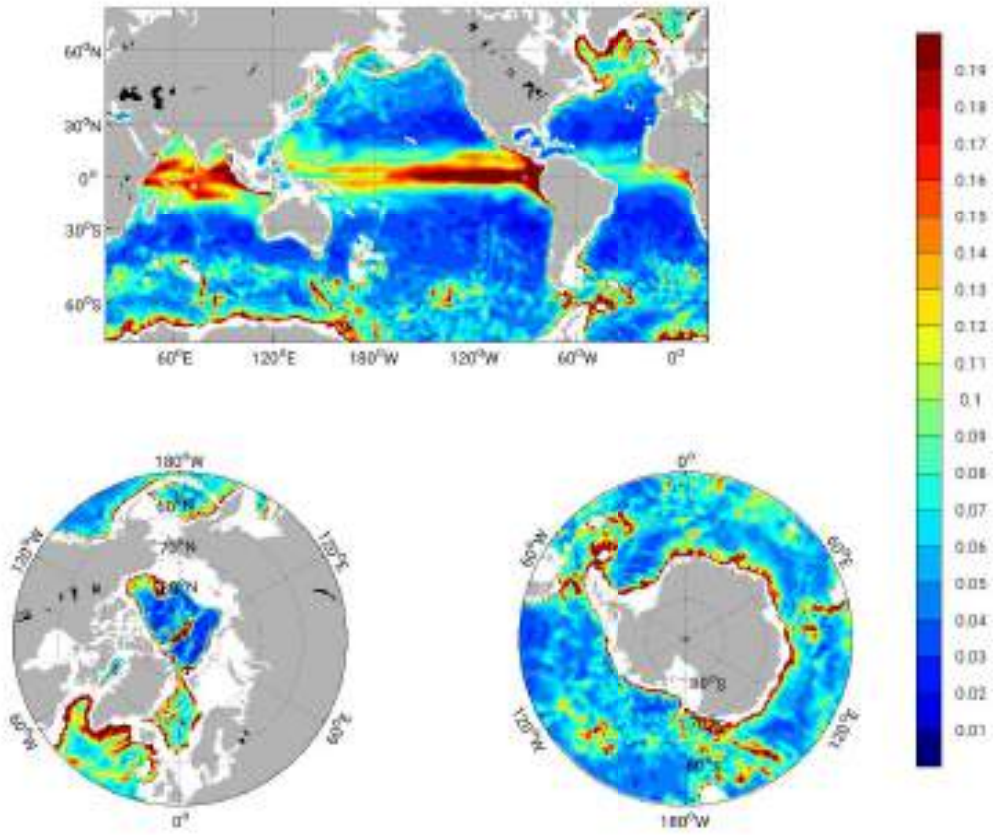

Figure : Vertical Velocity (mm/year) at 910m : Standard Deviation, 1992 thru 2017

3D state variables

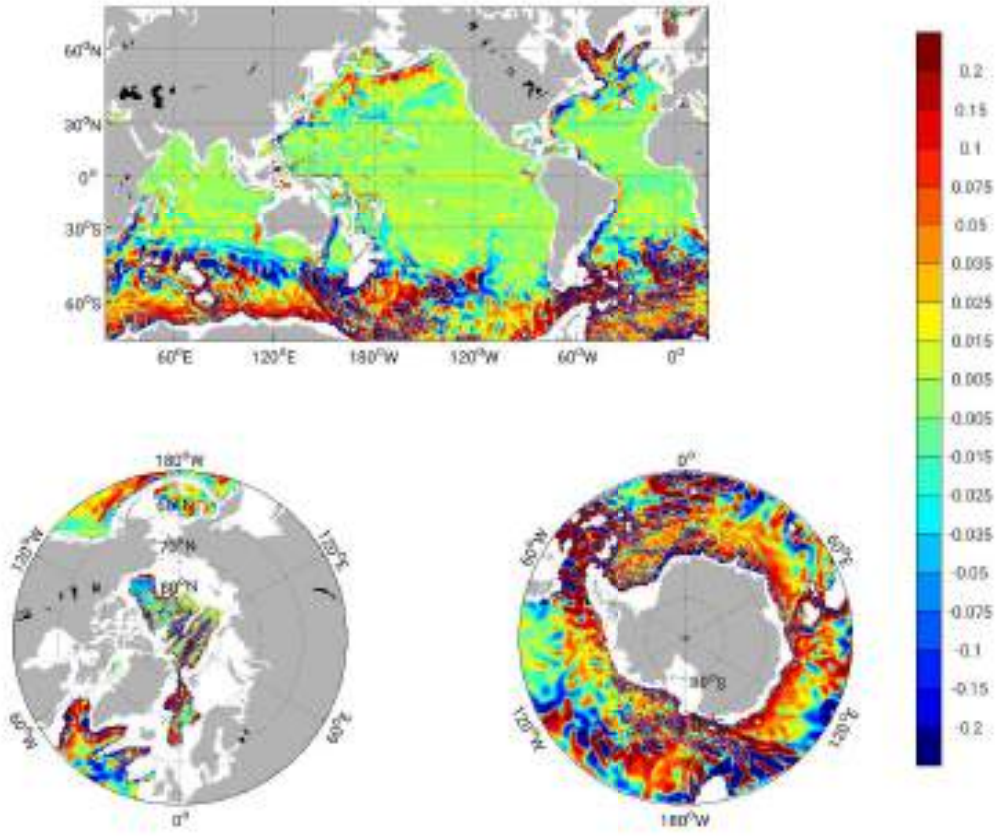

Figure : Vertical Velocity (mm/year) at 1914m : 1992 thru 2017 Mean

3D state variables

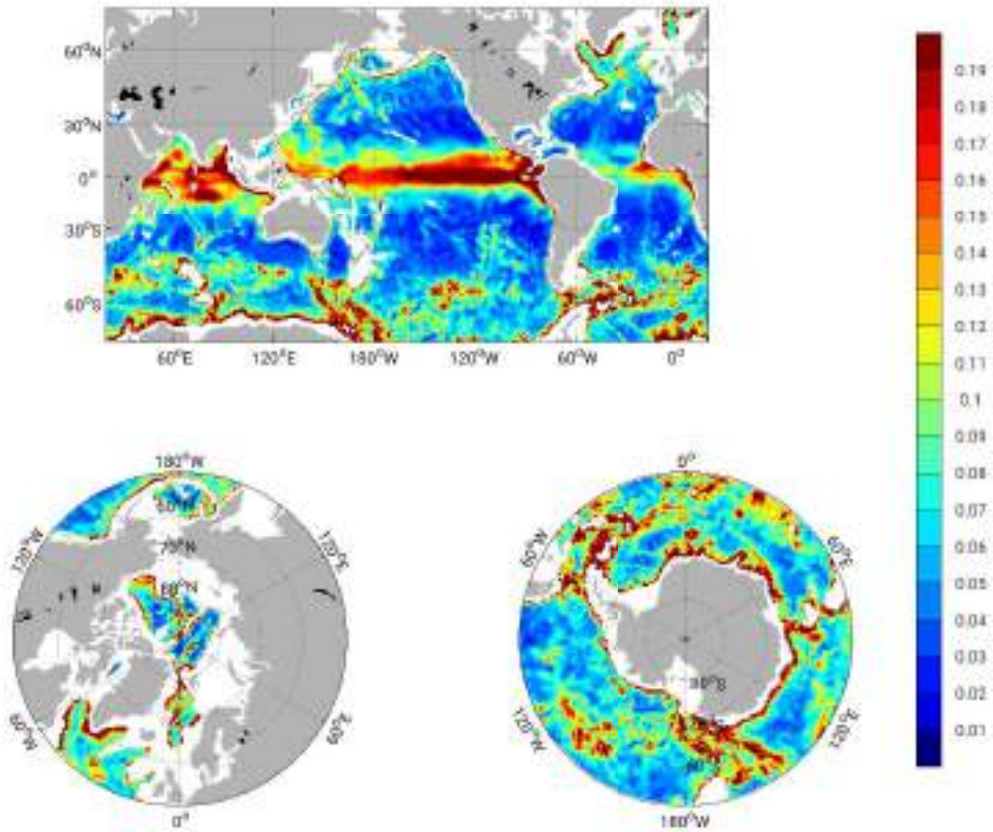

Figure : Vertical Velocity (mm/year) at 1914m : Standard Deviation, 1992 thru 2017

3D state variables

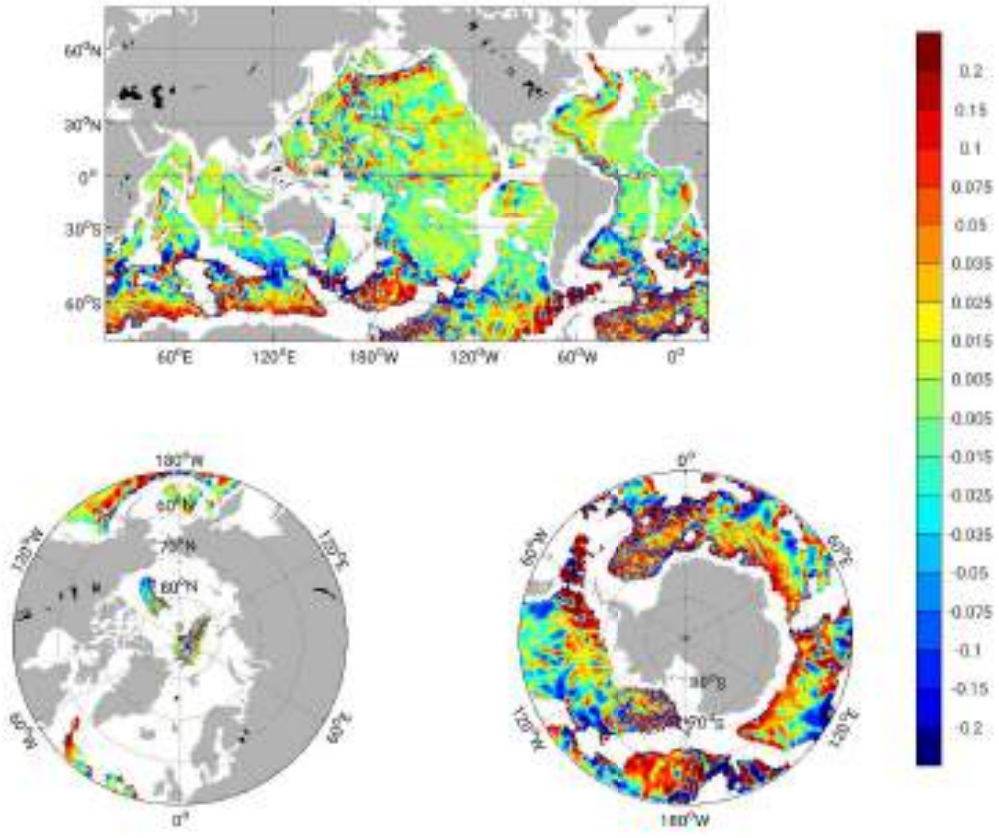

Figure : Vertical Velocity (mm/year) at 3581m : 1992 thru 2017 Mean

3D state variables

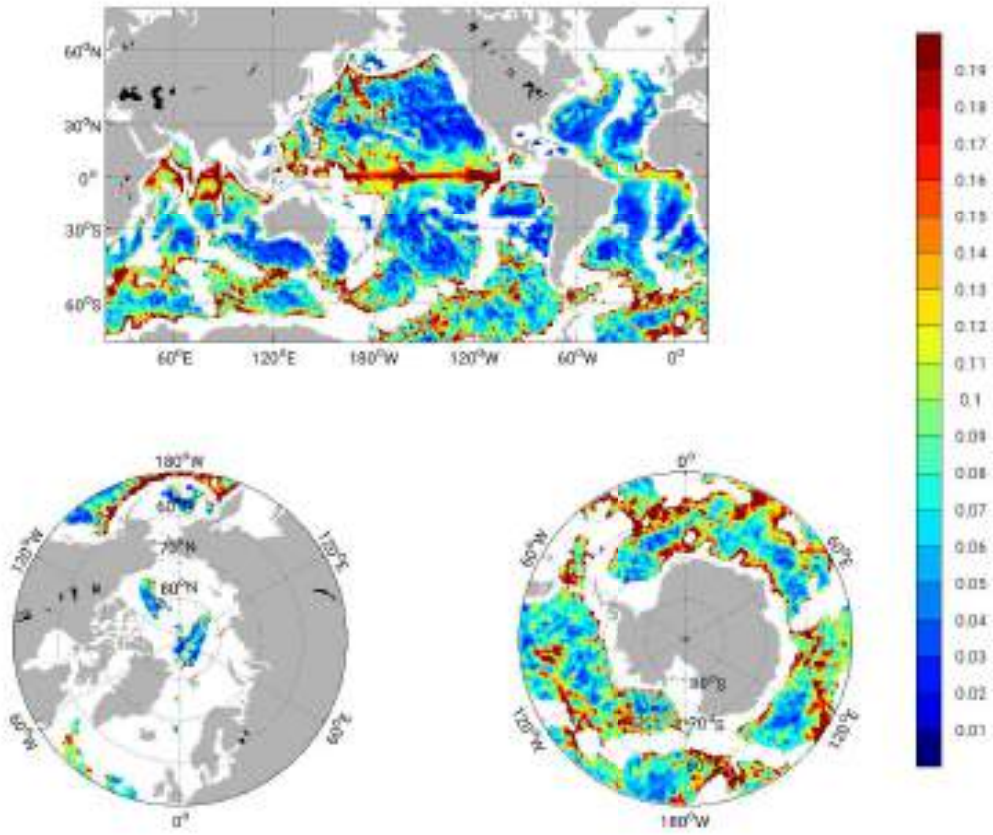

Figure : Vertical Velocity (mm/year) at 3581m : Standard Deviation, 1992 thru 2017

air-sea heat flux

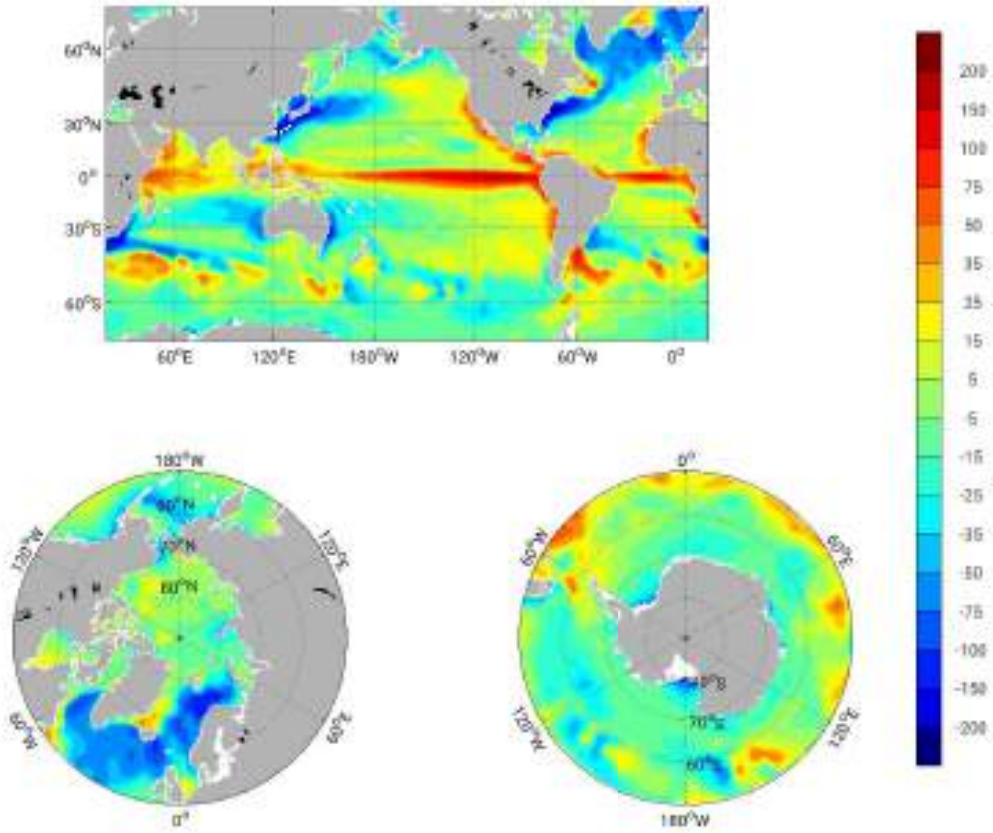

Figure : QNET to ocean+ice (W/m^2): 1992 thru 2017 Mean

air-sea heat flux

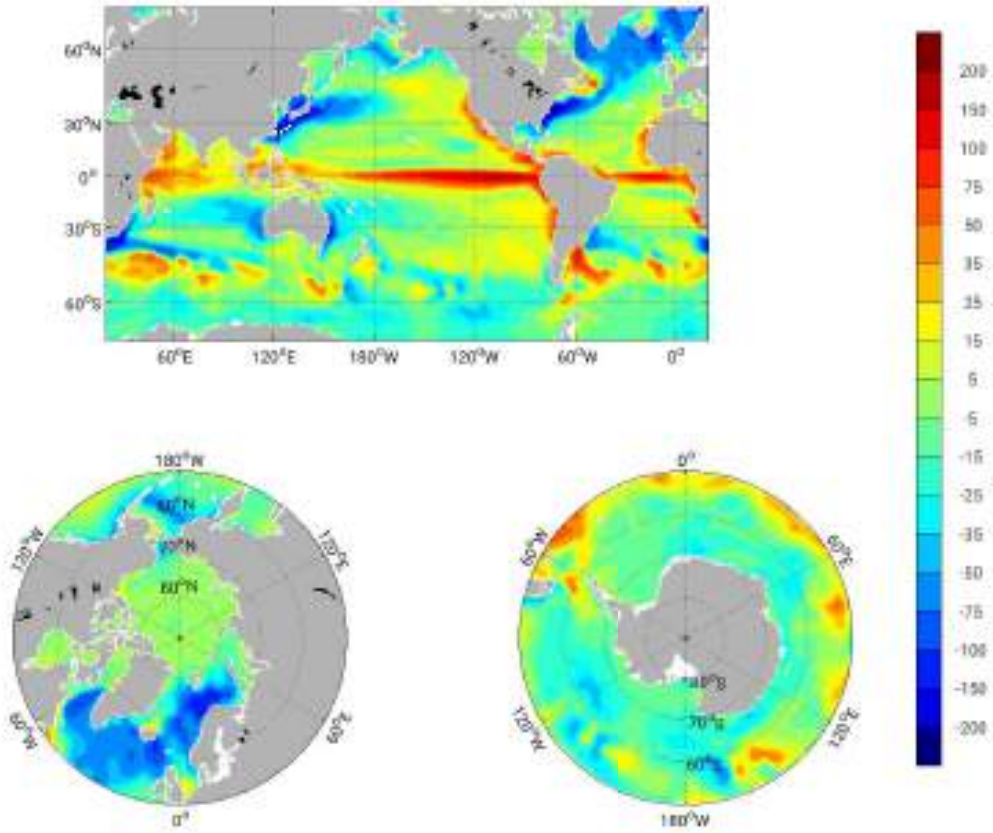

Figure : QNET to ocean (W/m^2): 1992 thru 2017 Mean

air-sea heat flux

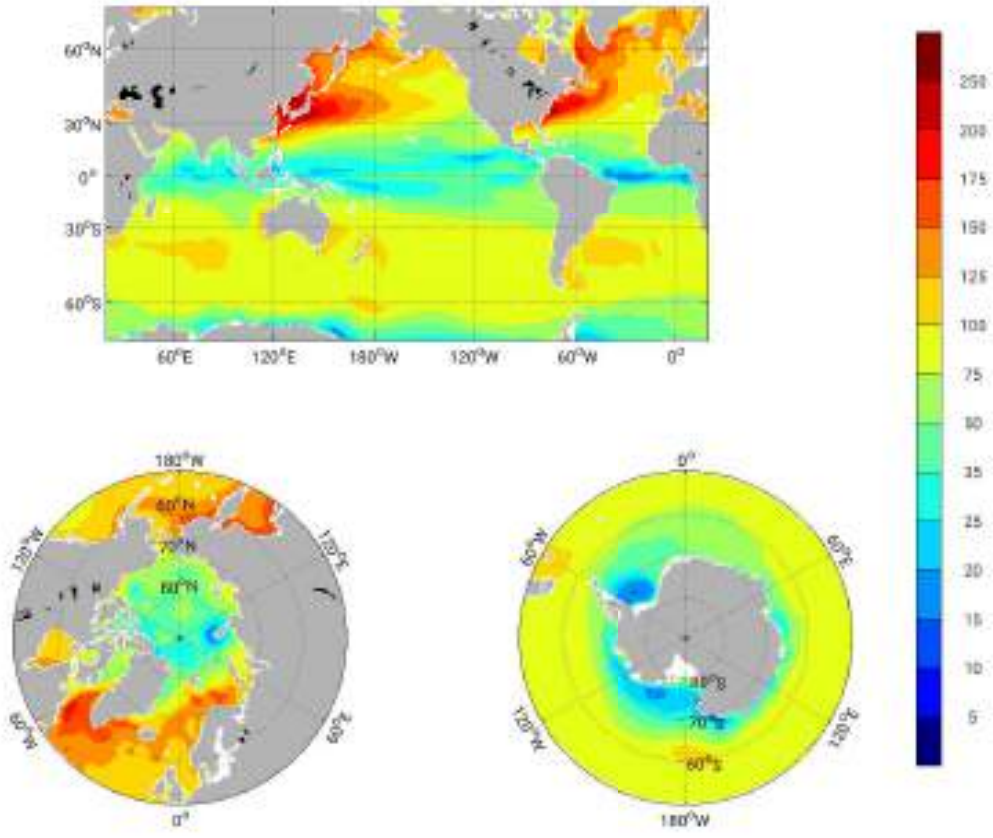

Figure : QNET to ocean+ice (W/m^2): Standard Deviation, 1992 thru 2017

air-sea heat flux

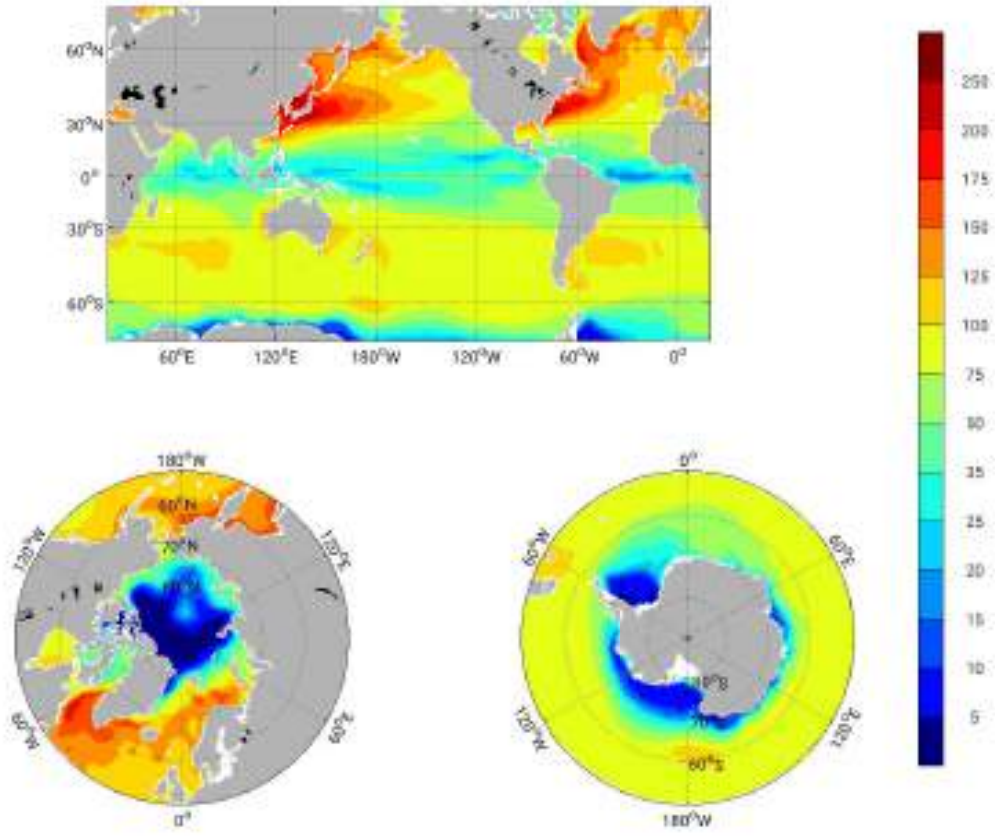

Figure : QNET to ocean (W/m^2): Standard Deviation, 1992 thru 2017

air-sea freshwater flux

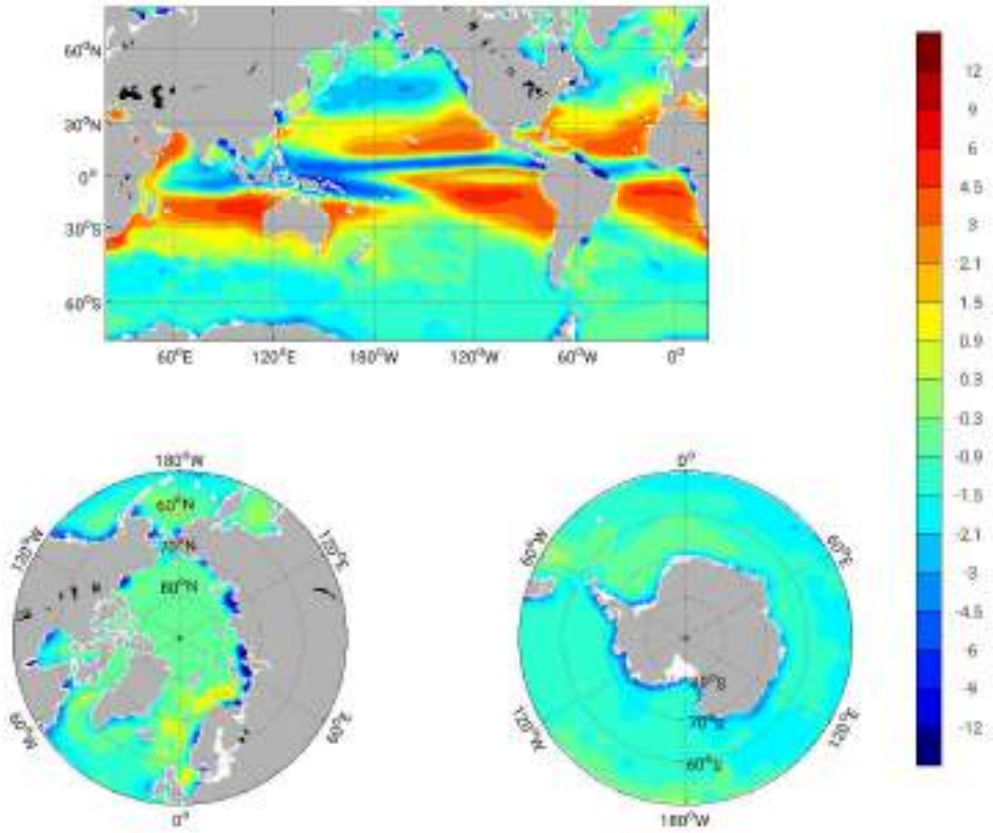

Figure : E-P-R from ocean+ice (mm/day): 1992 thru 2017 Mean

air-sea freshwater flux

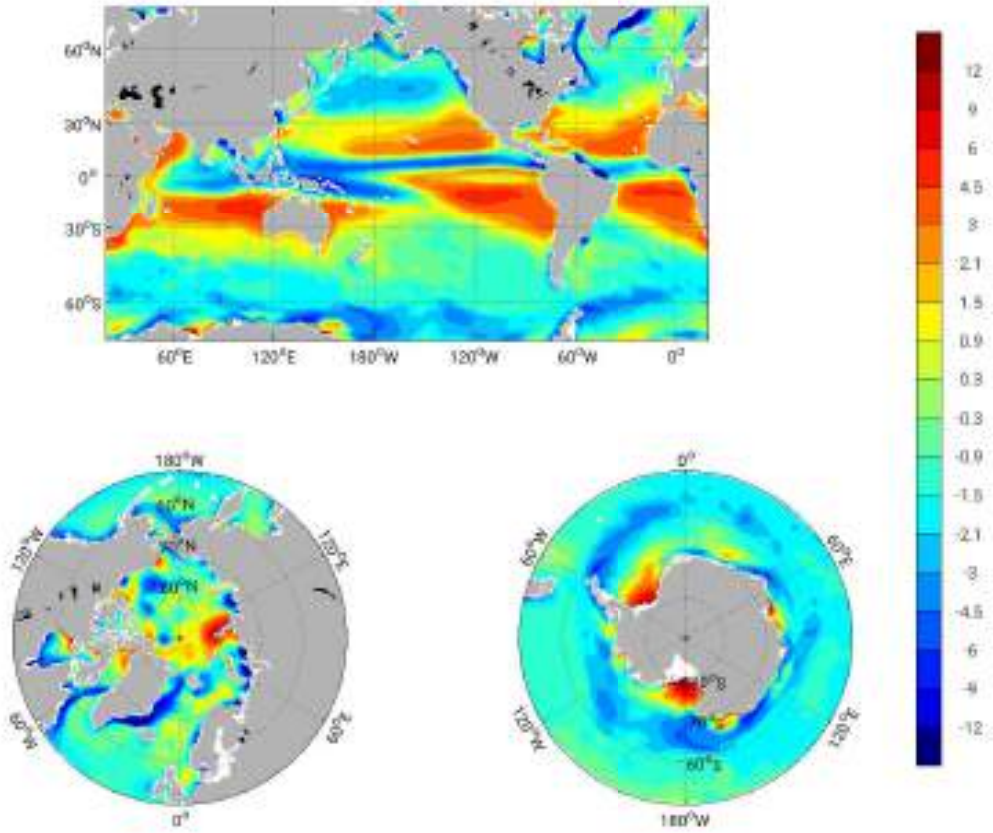

Figure : E-P-R from ocean (mm/day): 1992 thru 2017 Mean

air-sea freshwater flux

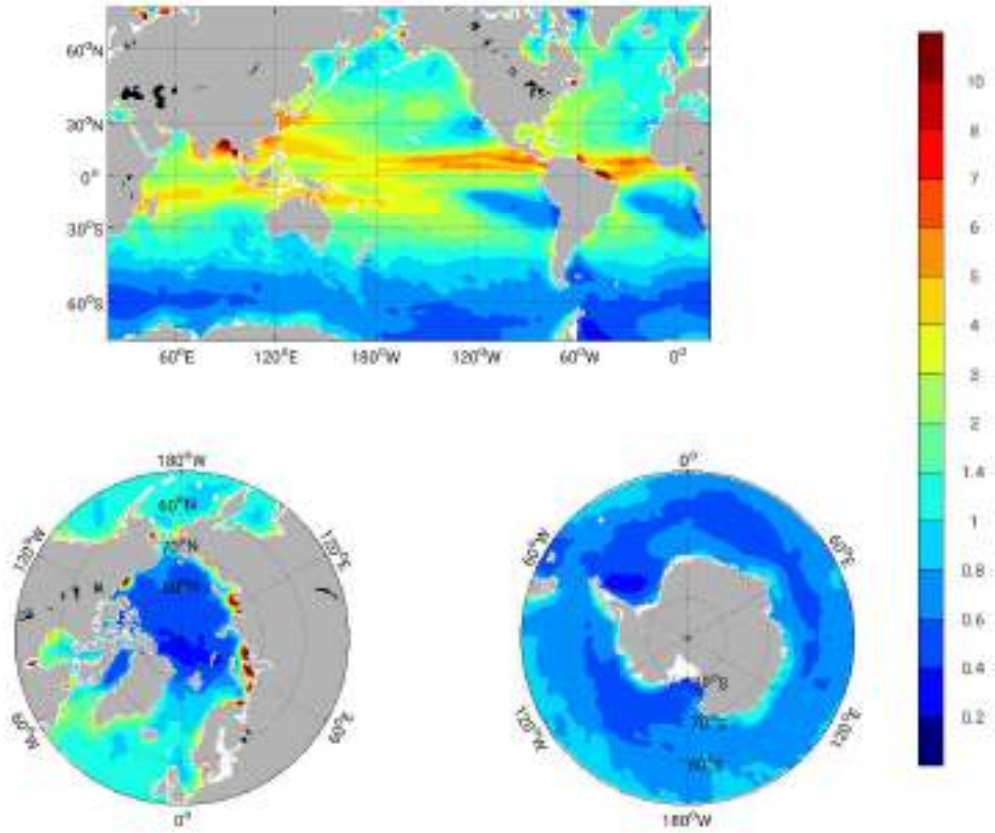

Figure : E-P-R to ocean+ice (mm/day): Standard Deviation, 1992 thru 2017

air-sea freshwater flux

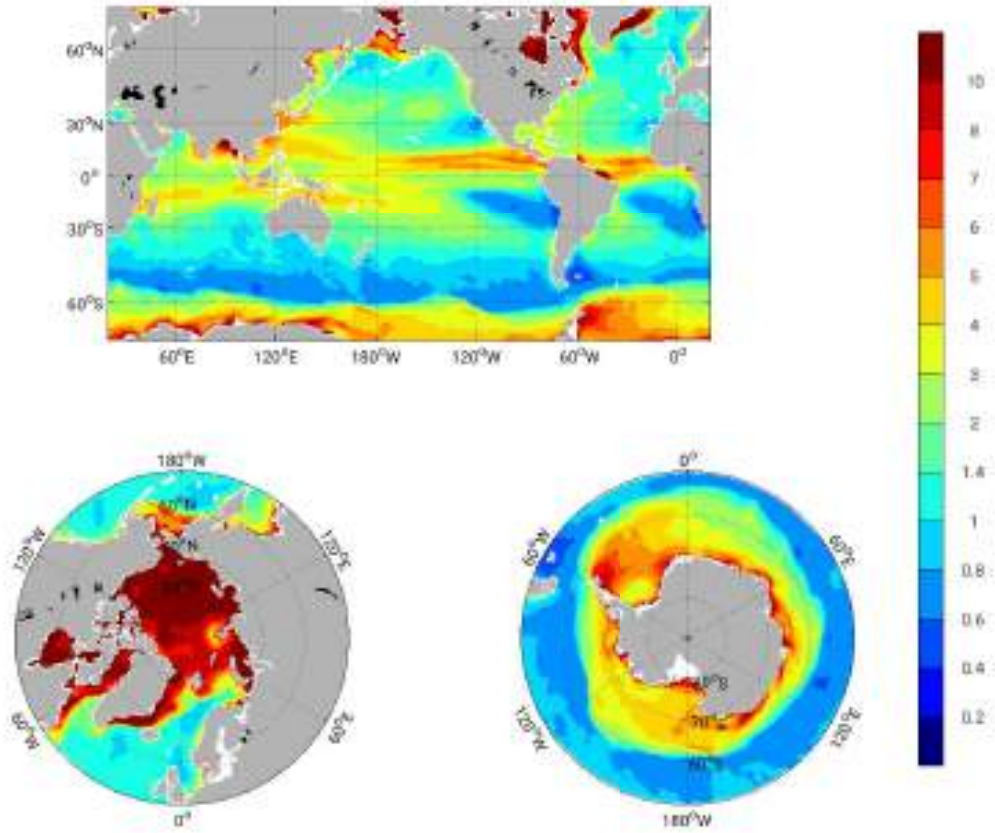

Figure : E-P-R to ocean (mm/day): Standard Deviation, 1992 thru 2017

surface wind stress

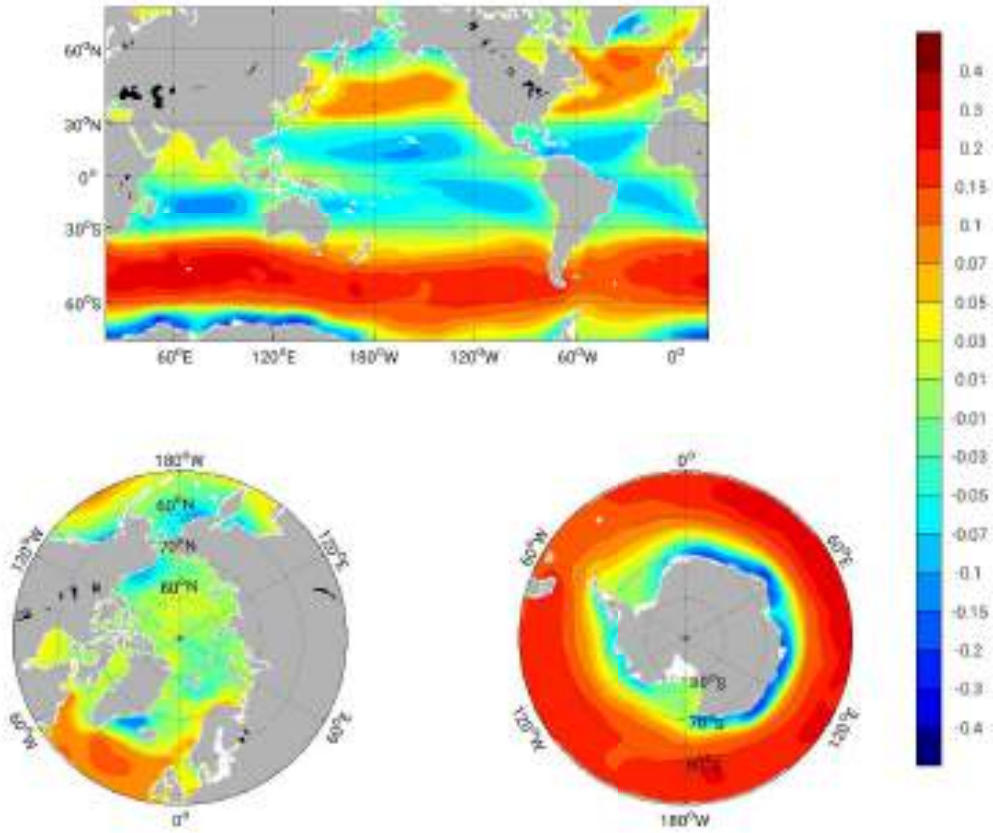

Figure : Zonal Wind Stress (N/m^2): 1992 thru 2017 Mean

surface wind stress

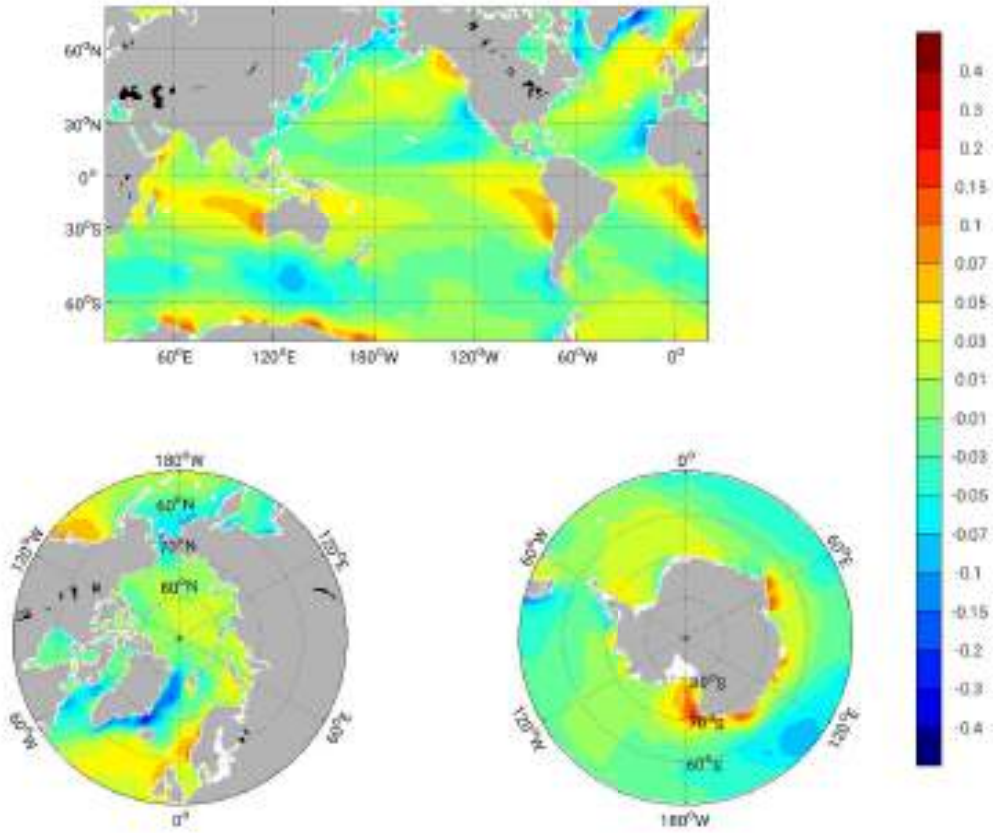

Figure : Meridional Wind Stress (N/m^2): 1992 thru 2017 Mean

surface wind stress

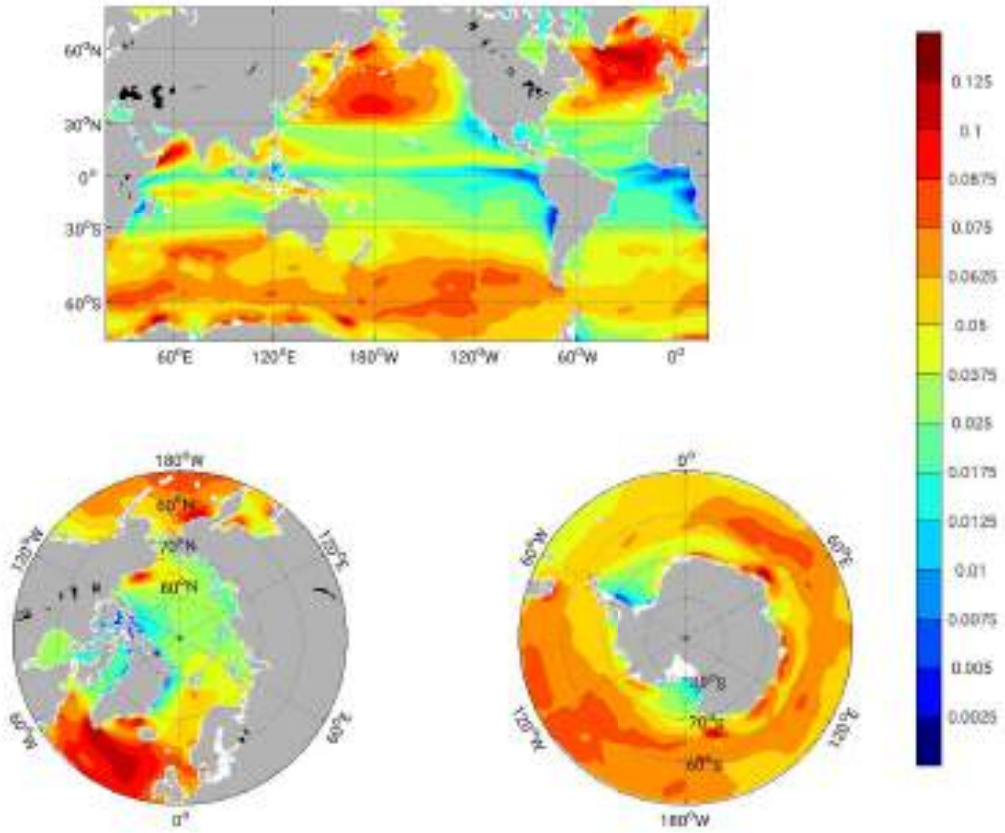

Figure : tauZ (N/m^2): Standard Deviation, 1992 thru 2017

surface wind stress

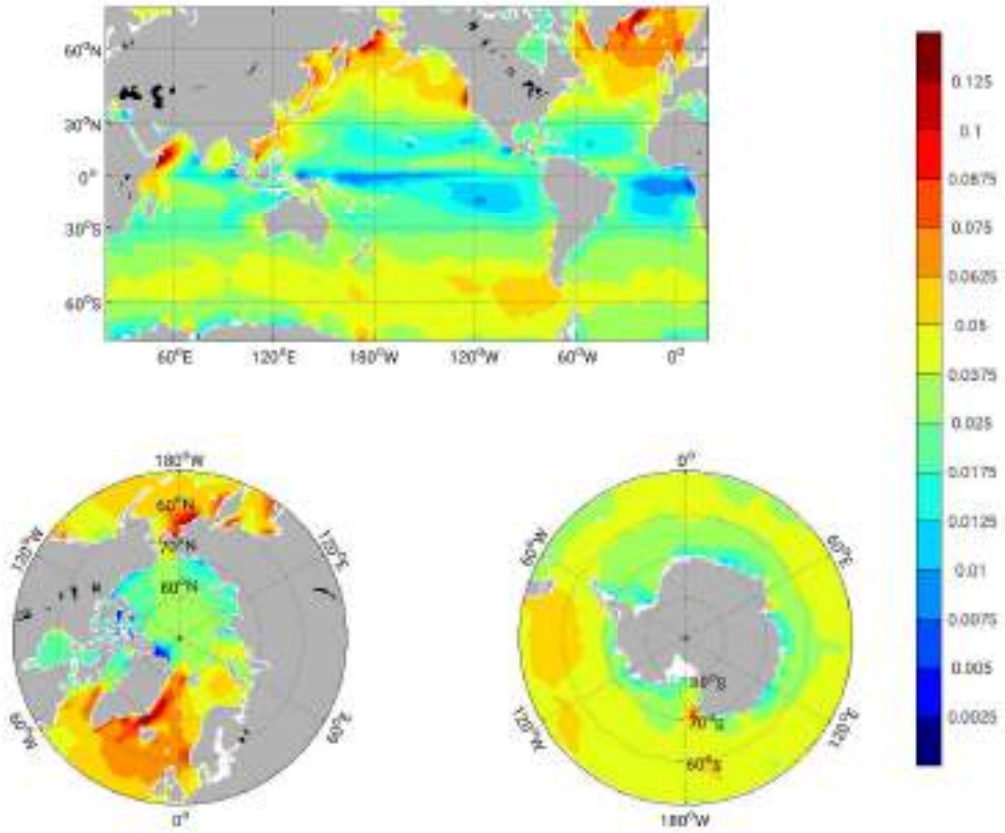

Figure : tauM (N/m^2): Standard Deviation, 1992 thru 2017

zonal mean tendencies

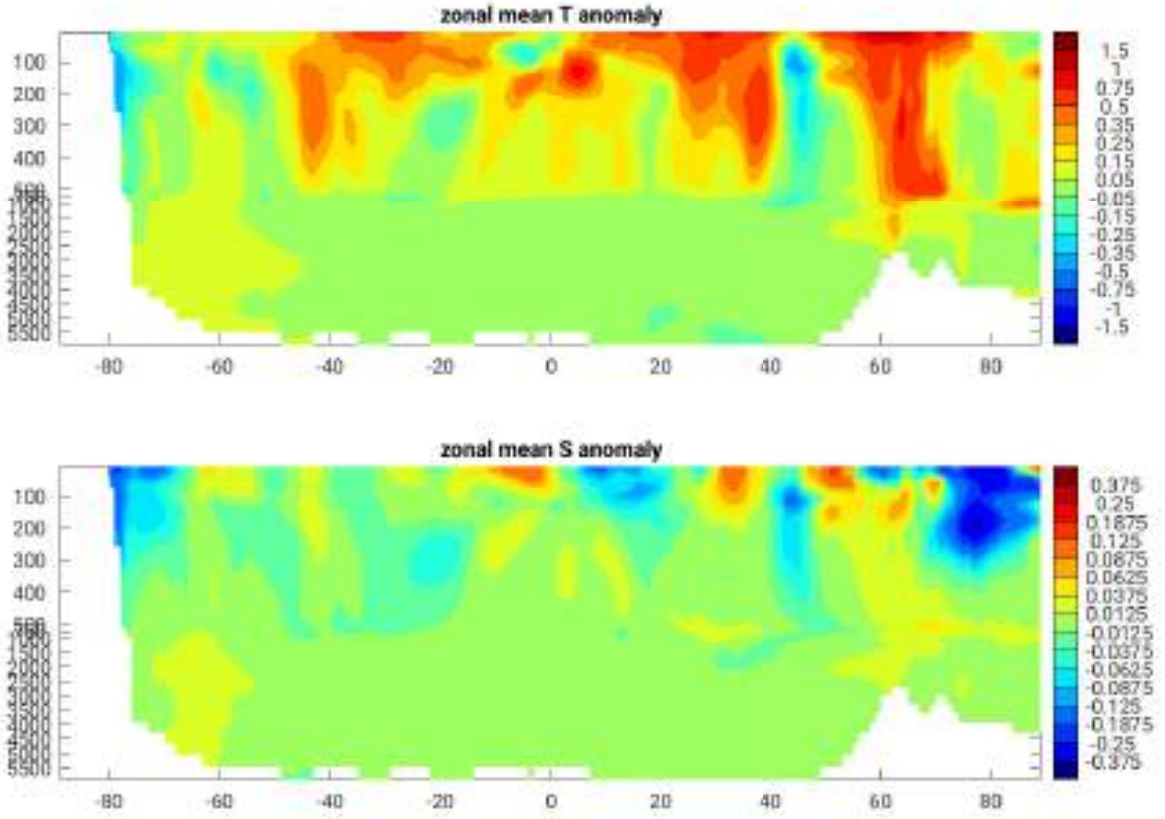

Figure : Last Year (2017) Minus First Year (1992) – Zonal Mean Temperature (C; top) and Salinity (psu; bottom)

equatorial sections

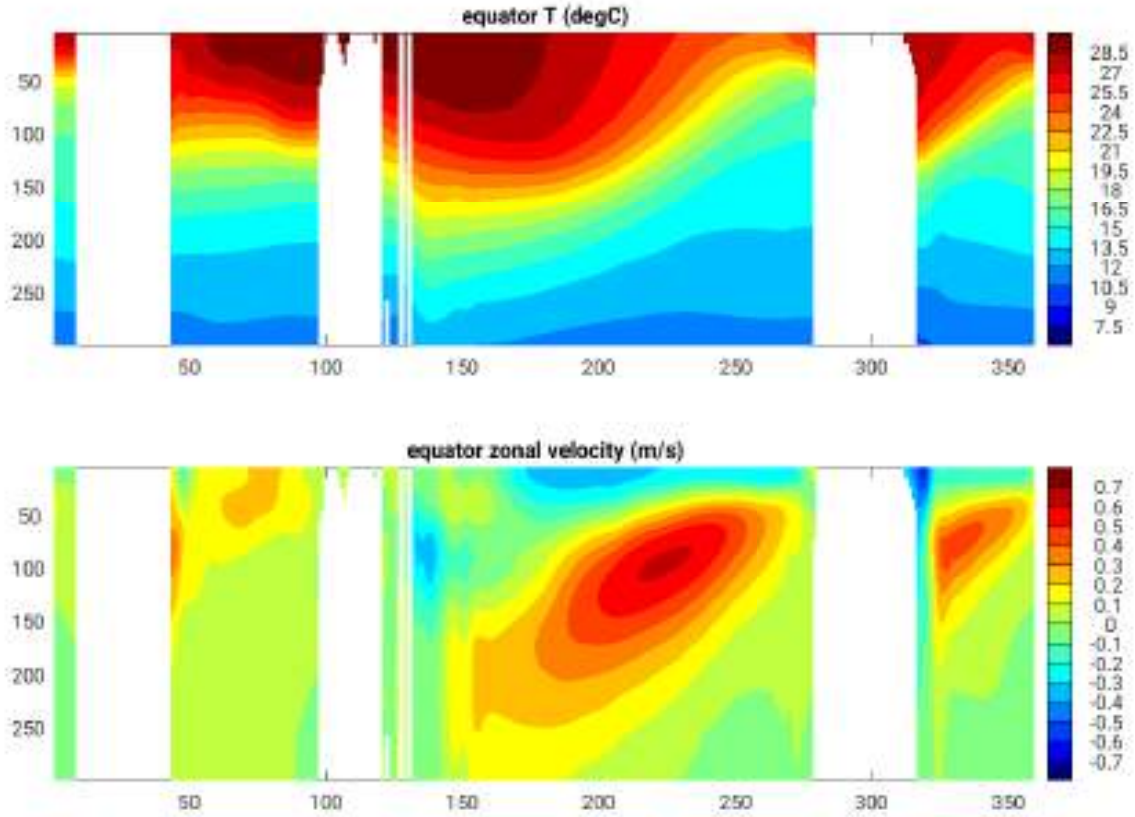

Figure : Equator Temperature (C;top) and Zonal Velocity (m/s;bottom): 1992 thru 2017 Mean

global mean properties

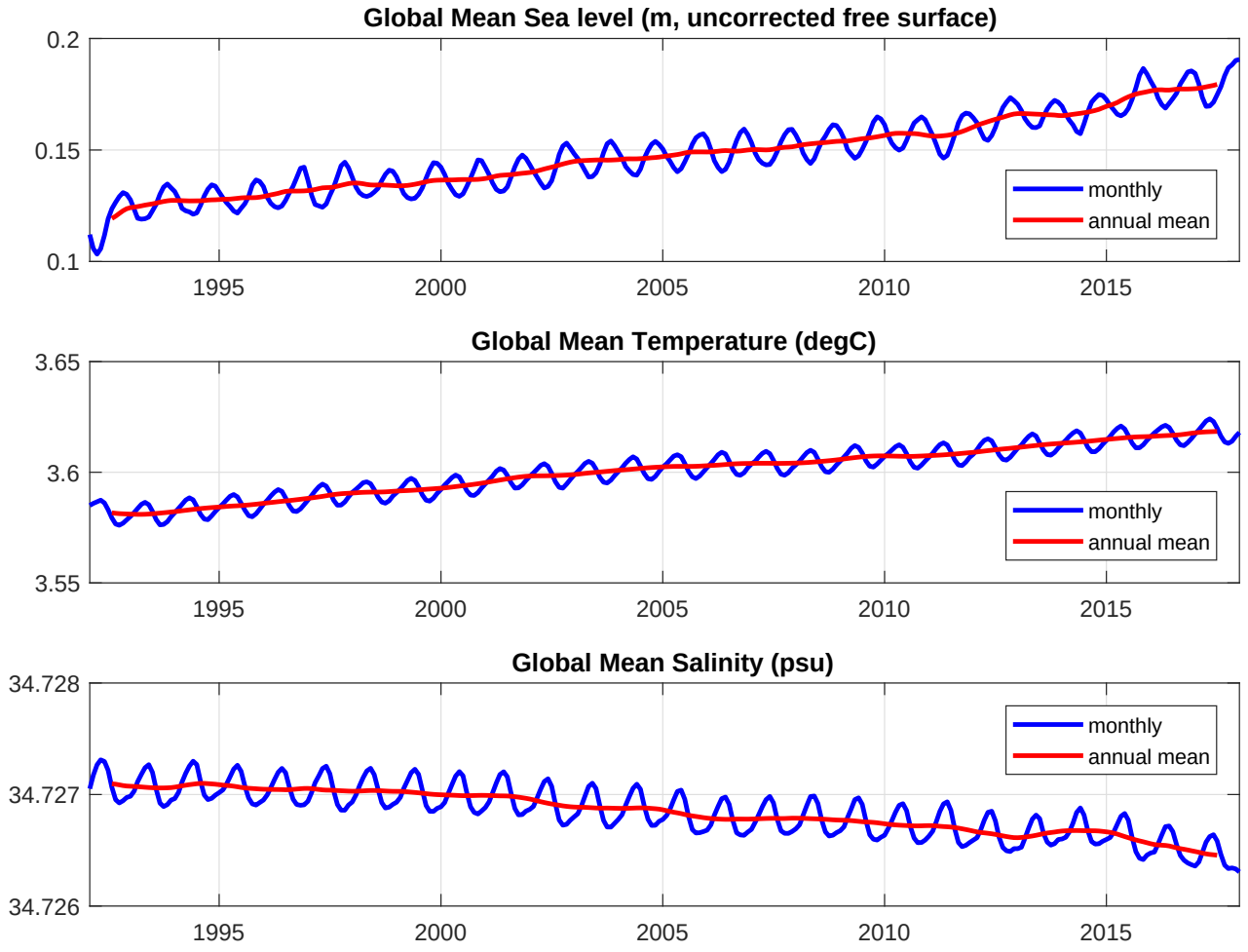

Figure : Global Mean T (C; top) and S (psu; bottom)

global mean properties

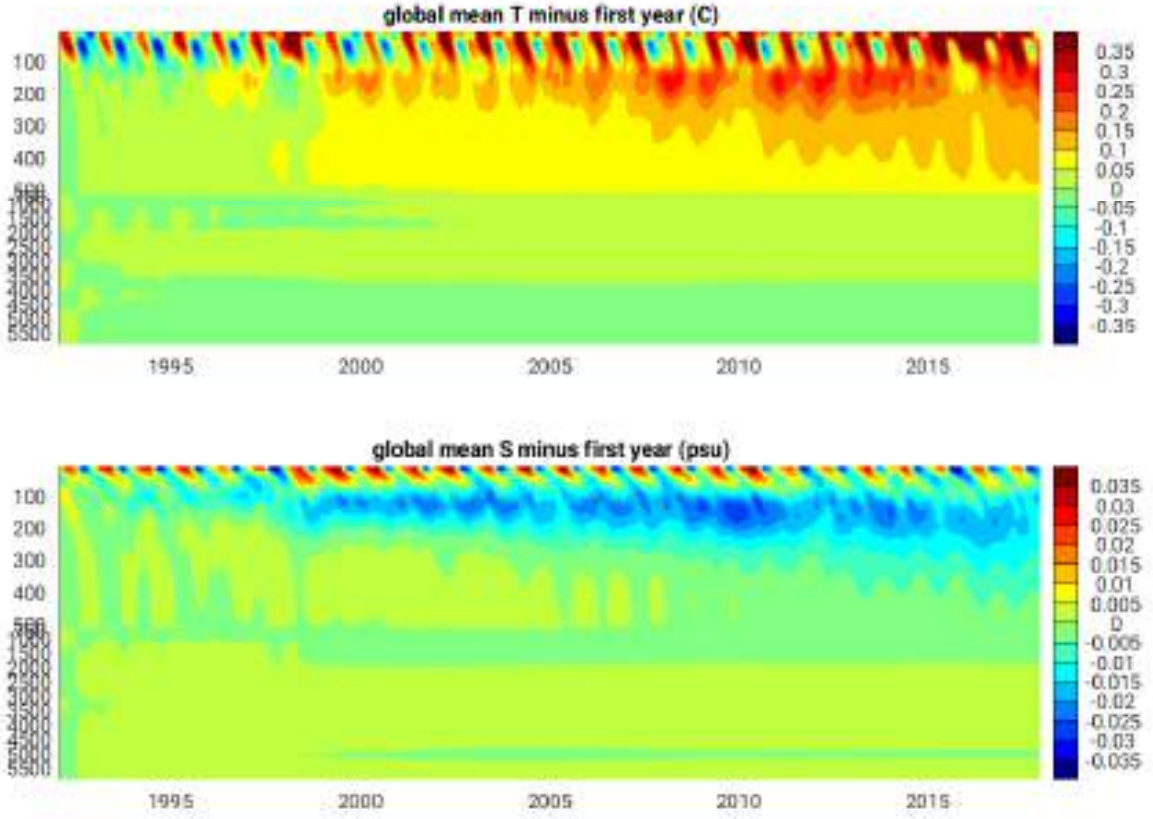

Figure : Global Mean Temperature (C; top) and Salinity (psu; bottom) Minus First Year

zonal mean properties

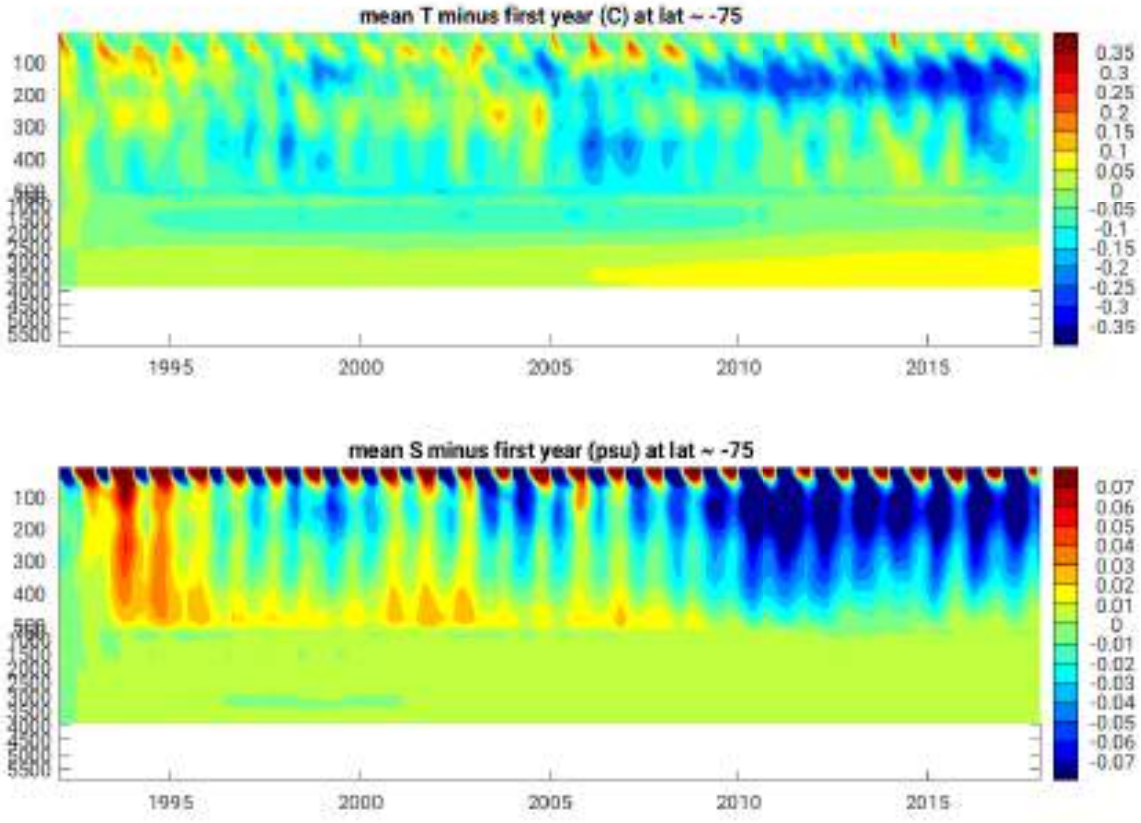

Figure : Mean Temperature (C; top) and Salinity (psu; bottom) Minus First Year at lat $\approx$ -75

zonal mean properties

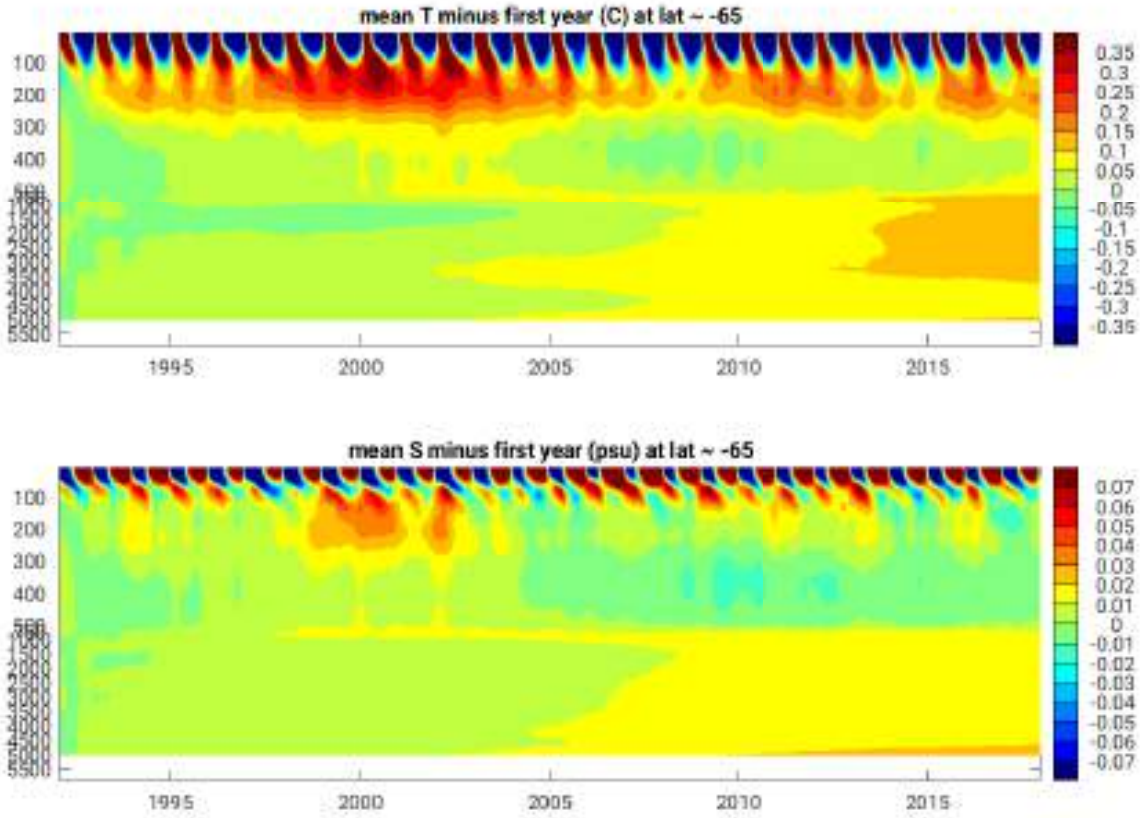

Figure : Mean Temperature (C; top) and Salinity (psu; bottom) Minus First Year at lat $\approx$ -65

zonal mean properties

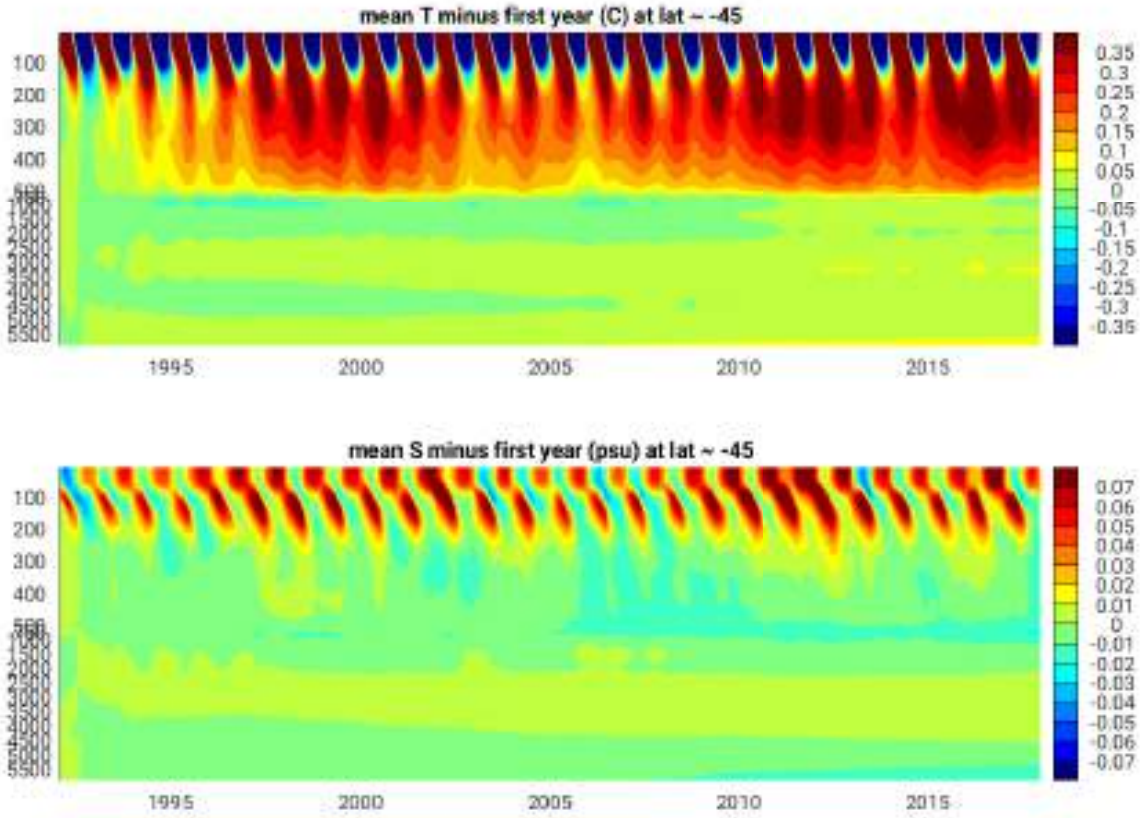

Figure : Mean Temperature (C; top) and Salinity (psu; bottom) Minus First Year at lat $\approx$ -45

zonal mean properties

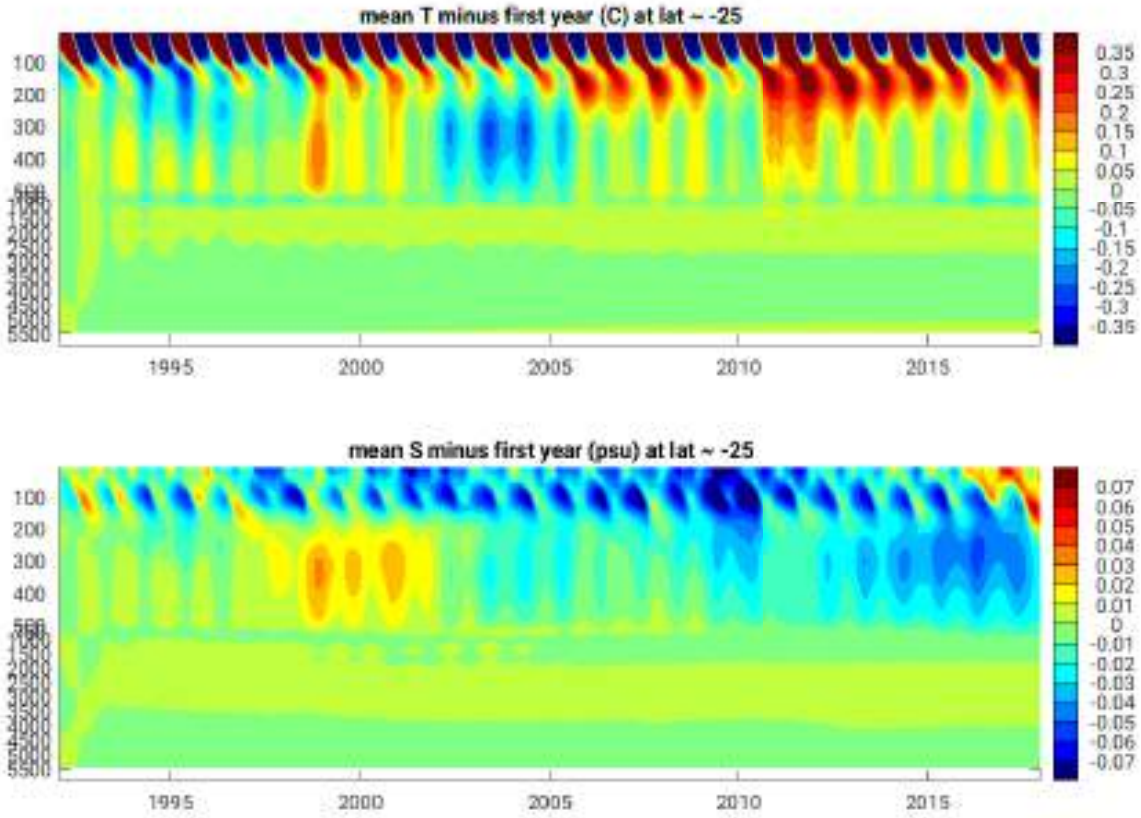

Figure : Mean Temperature (C; top) and Salinity (psu; bottom) Minus First Year at lat $\approx$ -25

zonal mean properties

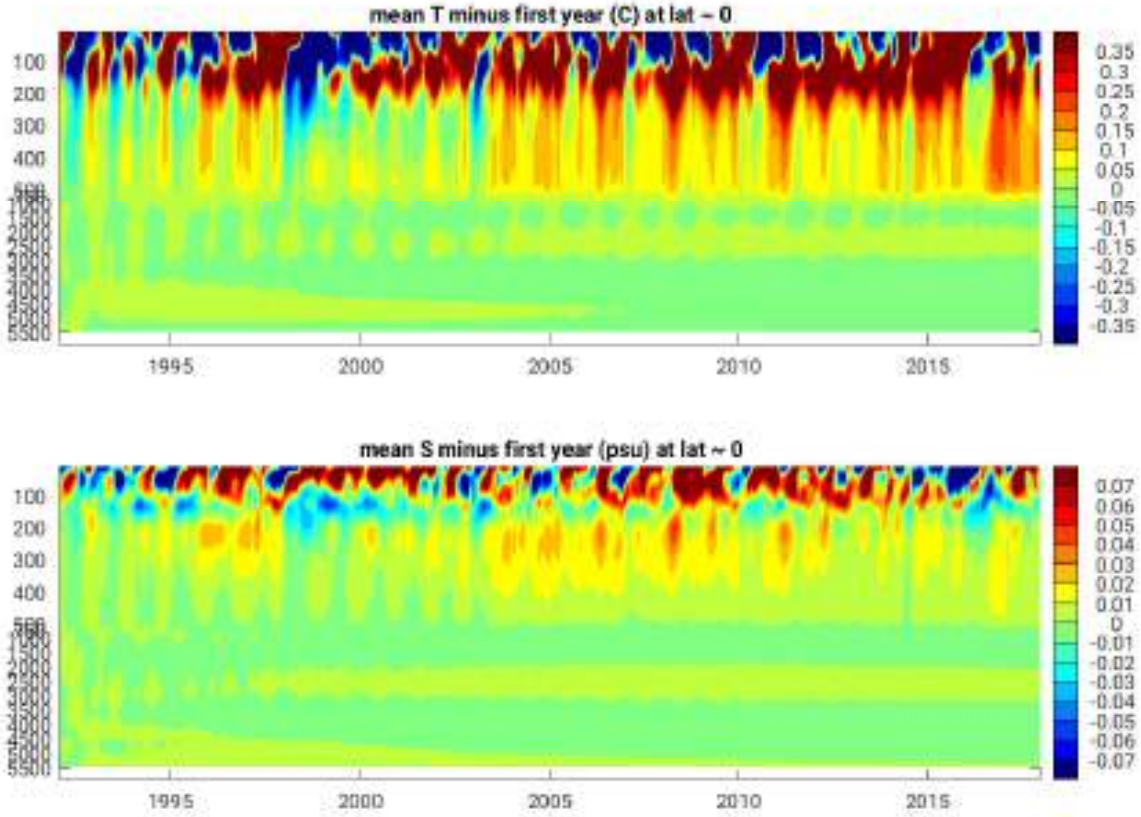

Figure : Mean Temperature (C; top) and Salinity (psu; bottom) Minus First Year at lat ≈ 0

zonal mean properties

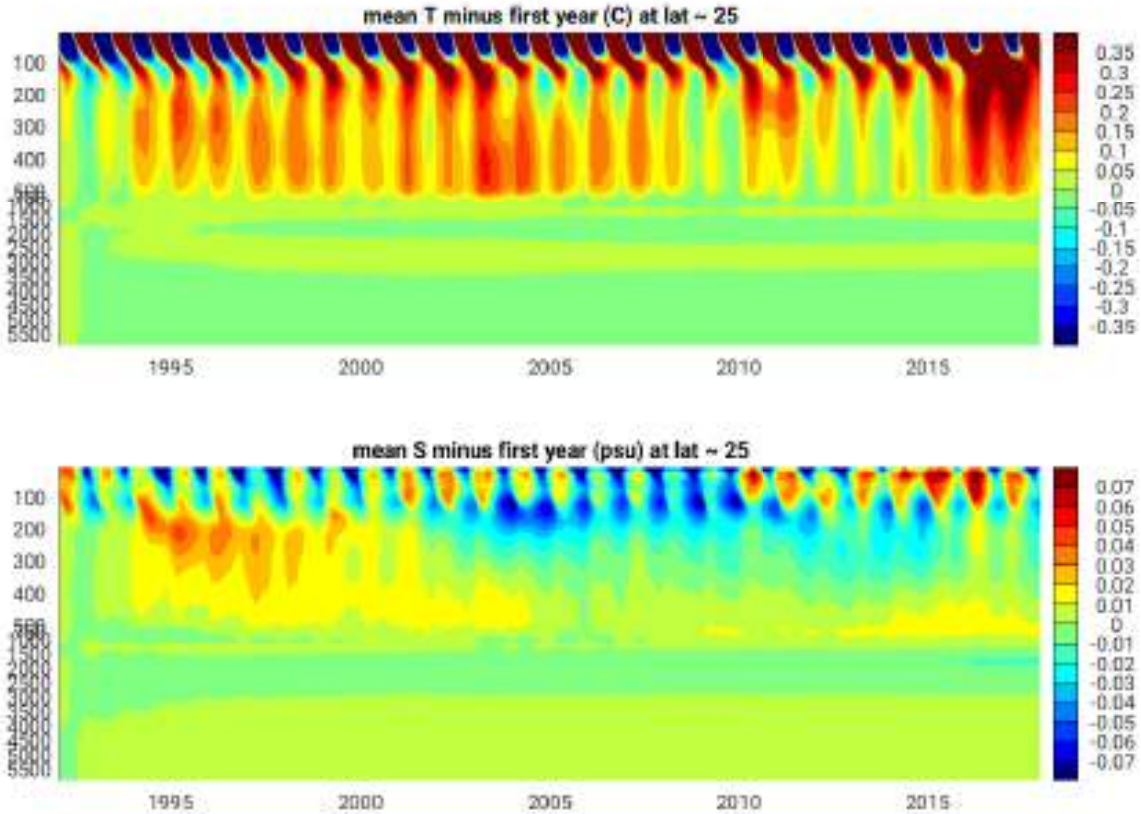

Figure : Mean Temperature (C; top) and Salinity (psu; bottom) Minus First Year at lat $\approx$ 25

zonal mean properties

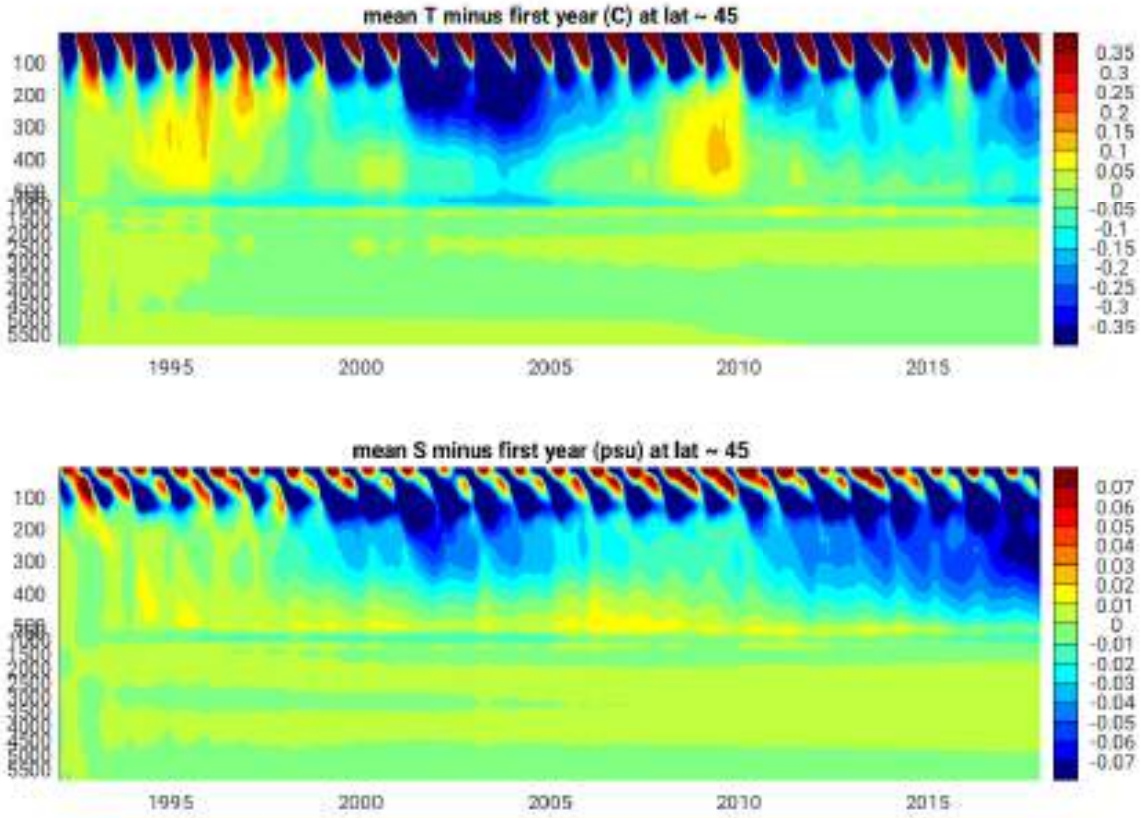

Figure : Mean Temperature (C; top) and Salinity (psu; bottom) Minus First Year at lat $\approx$ 45

zonal mean properties

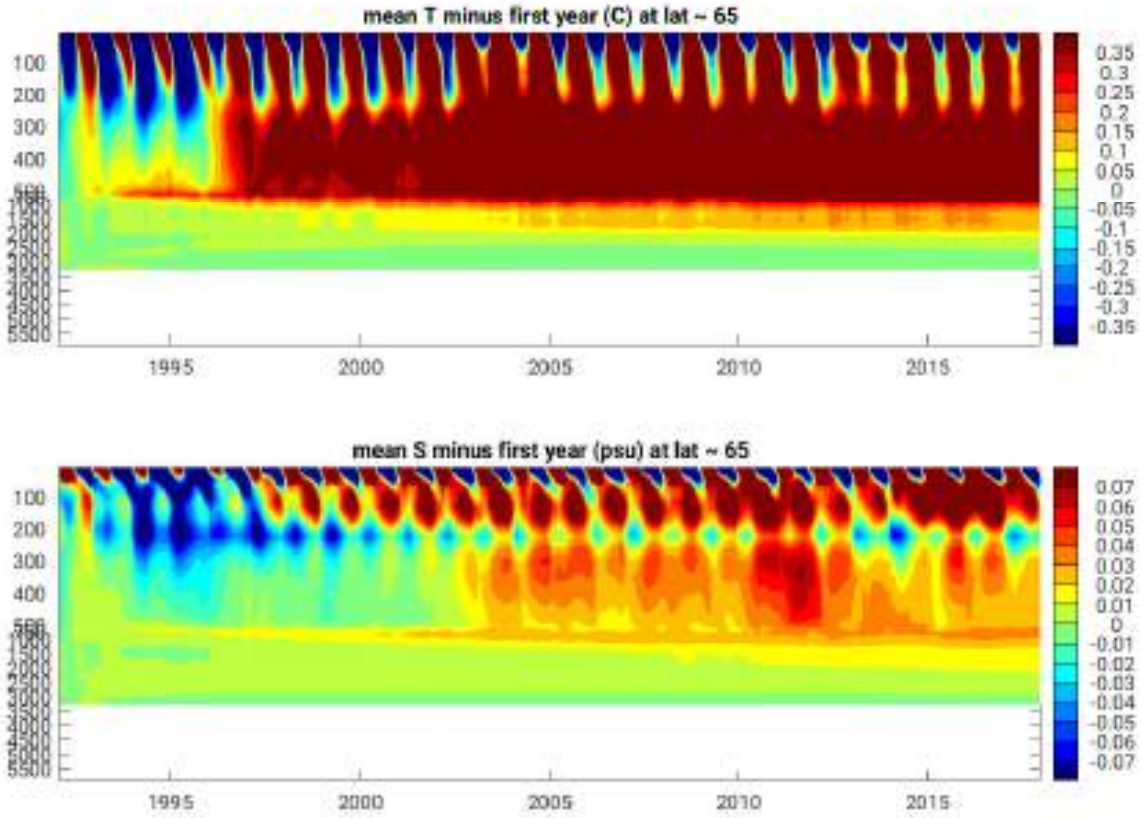

Figure : Mean Temperature (C; top) and Salinity (psu; bottom) Minus First Year at lat $\approx$ 65

zonal mean properties

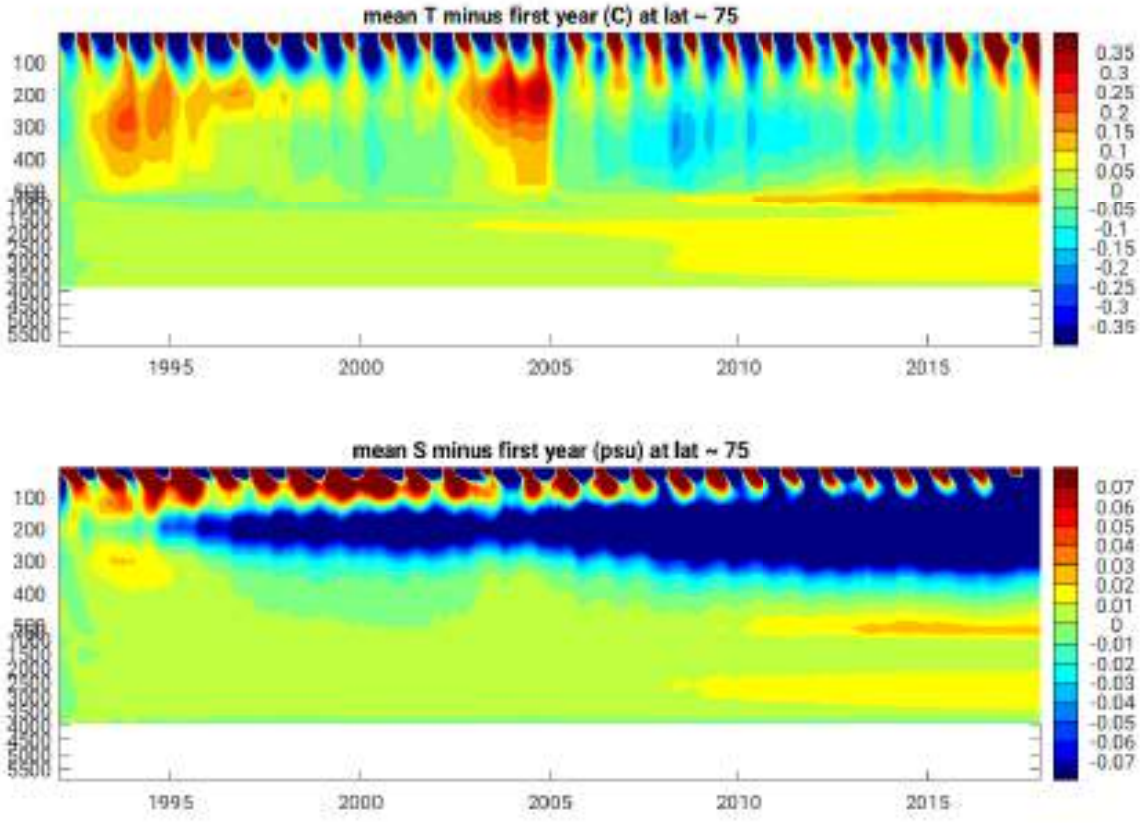

Figure : Mean Temperature (C; top) and Salinity (psu; bottom) Minus First Year at lat $\approx$ 75

zonal mean properties (surface)

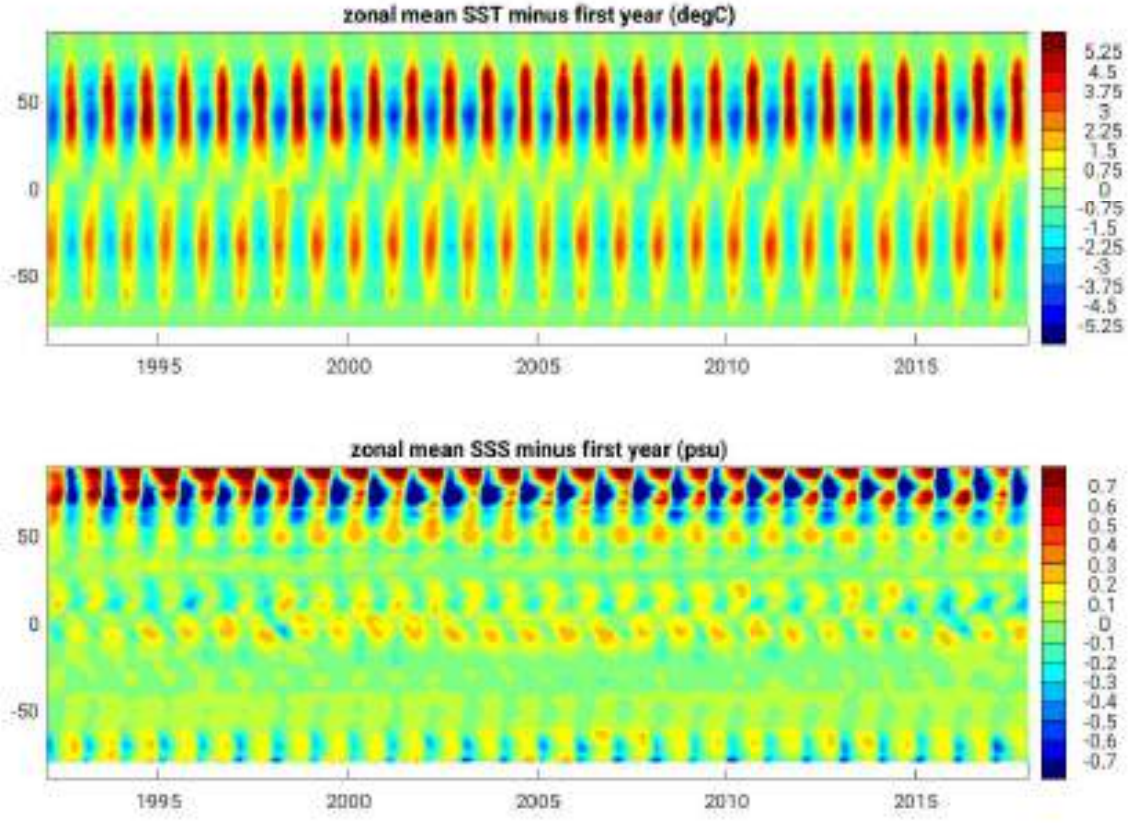

Figure : Zonal Mean Temperature (C; top) and Salinity (psu; bottom) minus first year (psu) at 5m depth

zonal mean properties (surface)

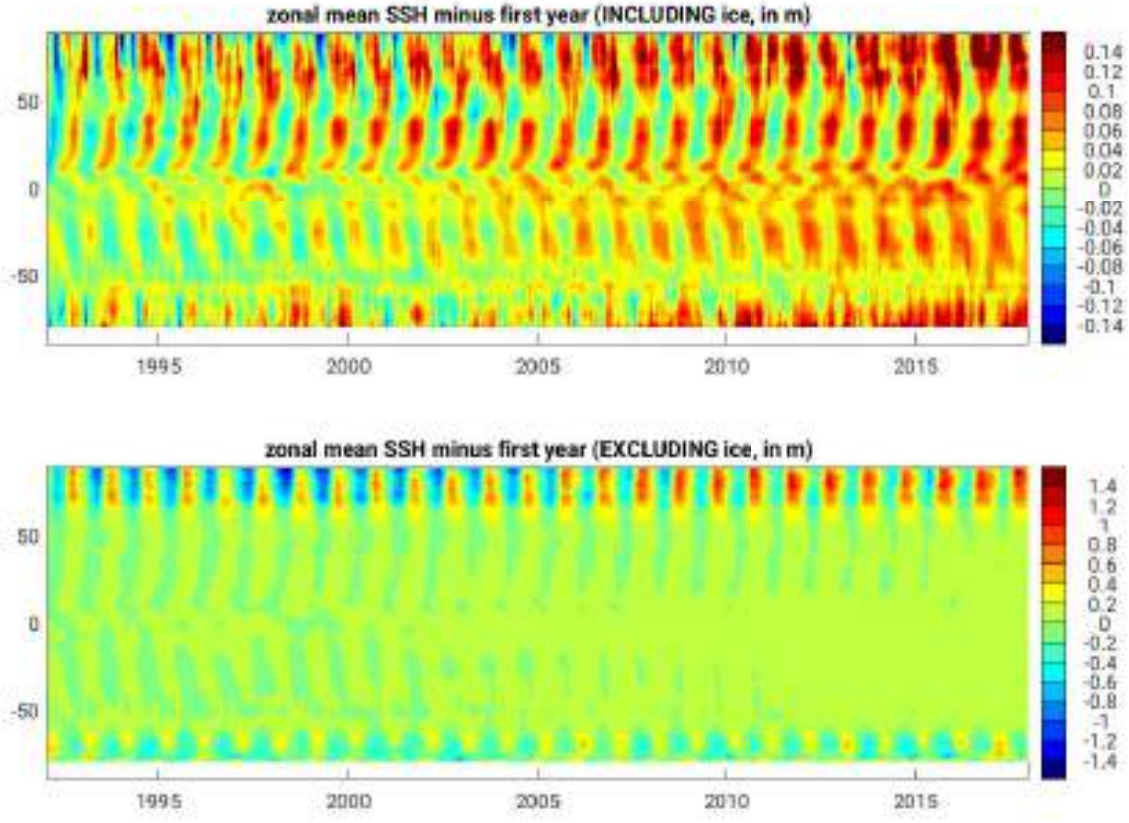

Figure : Zonal Mean SSH (m, uncorrected free surface) Minus First Year, Including Ice (top) and Below Ice (bottom)

zonal mean properties (surface)

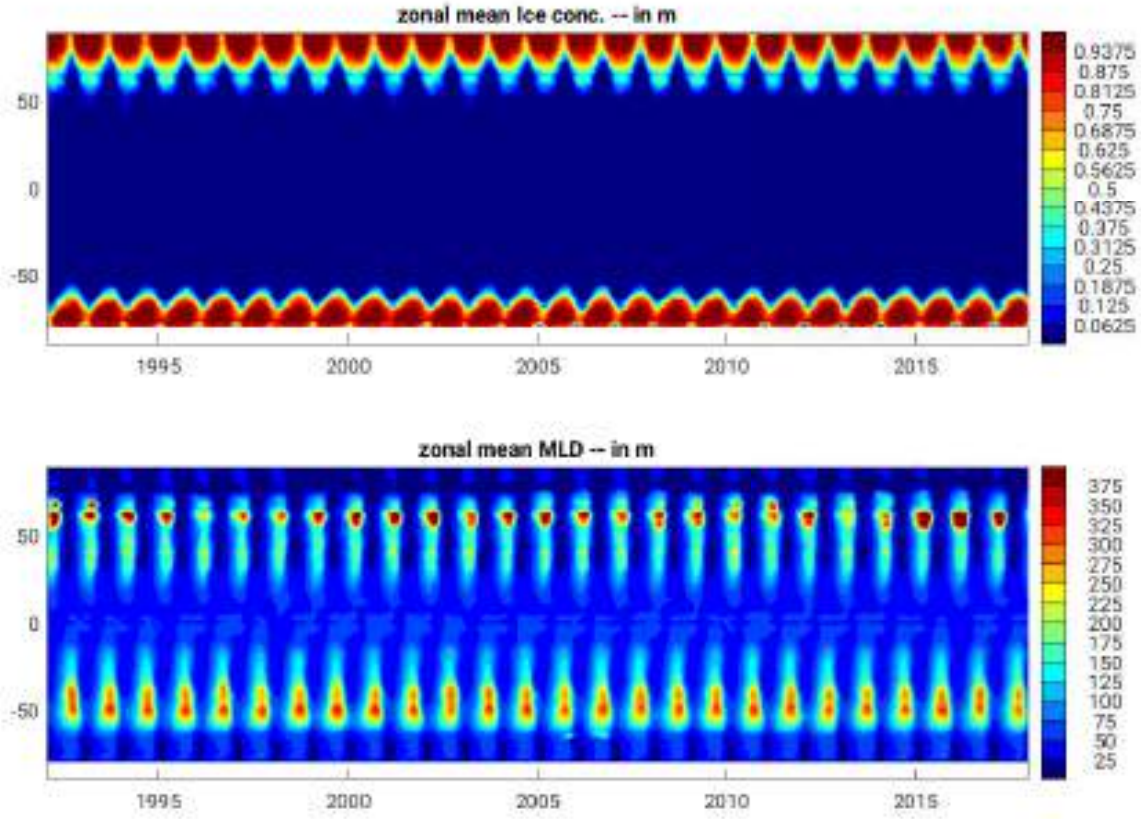

Figure : Zonal Mean Ice Concentration (no units) and Mixed Layer Depth (m)

seaice time series

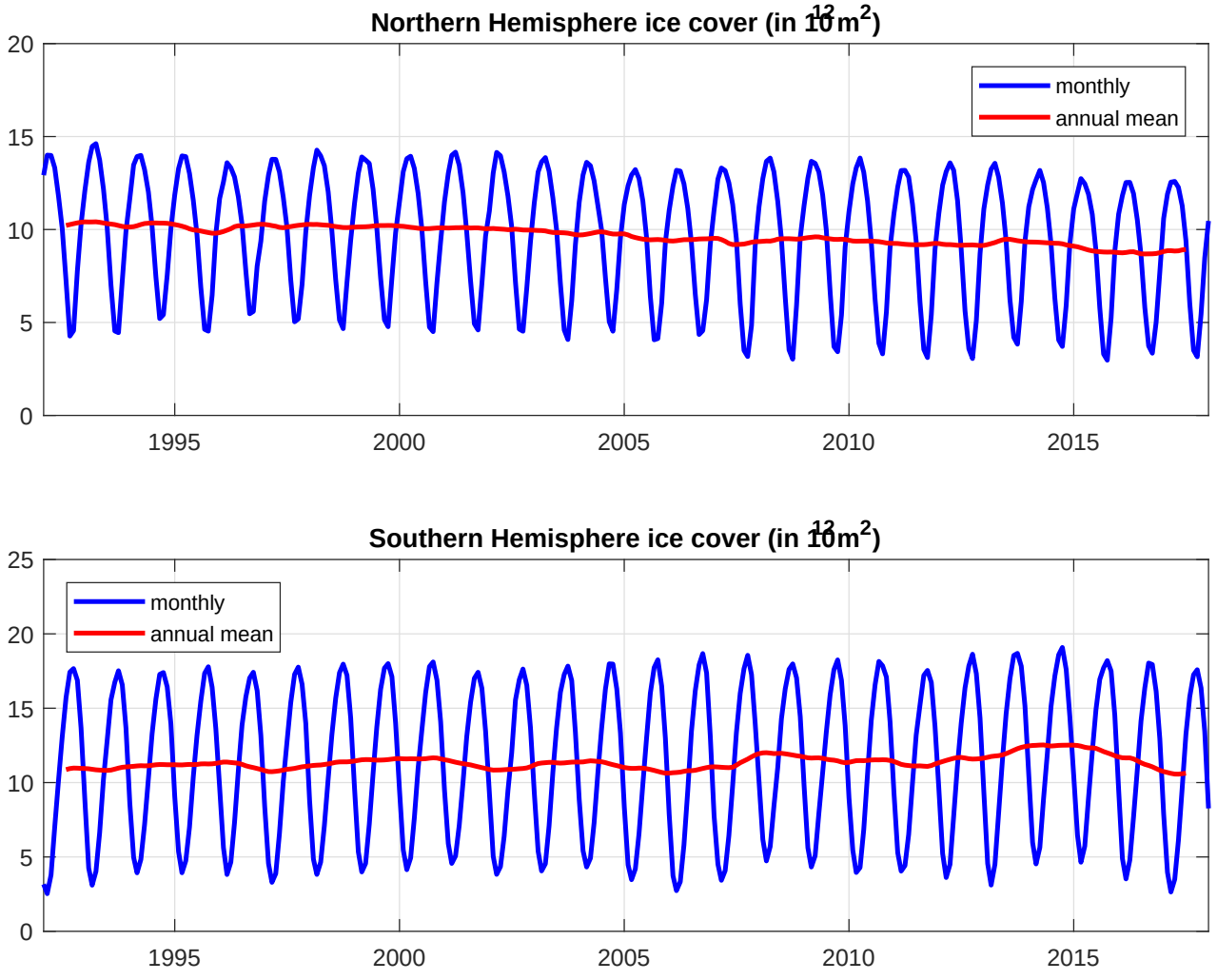

Figure : Sea Ice Cover (in $10^{12}m^2$) in Northern (top) and Southern (bottom) Hemisphere

seaice time series

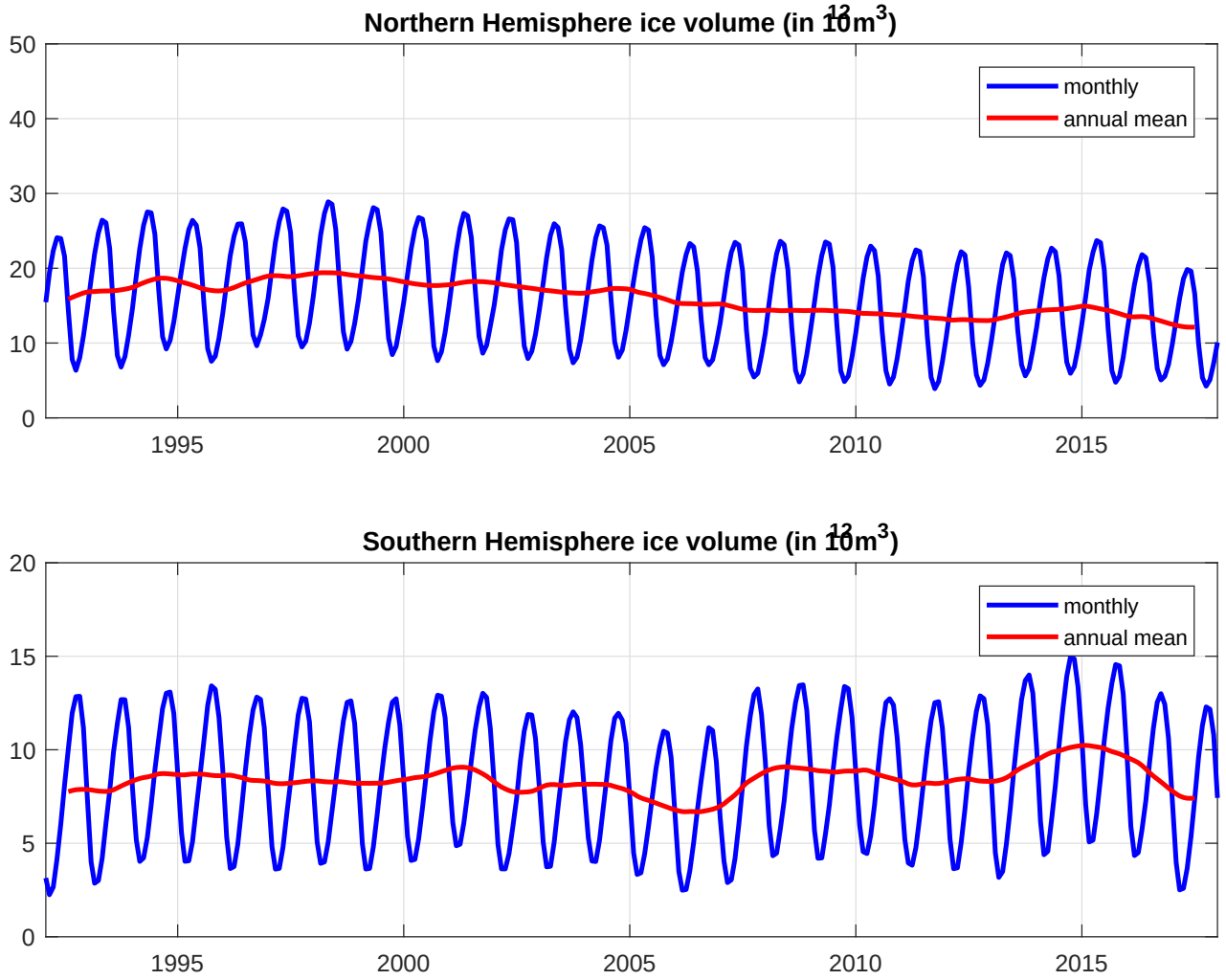

Figure : Sea Ice Volume (in $10^{12}m^3$) in Northern (top) and Southern (bottom) Hemisphere

seaice time series

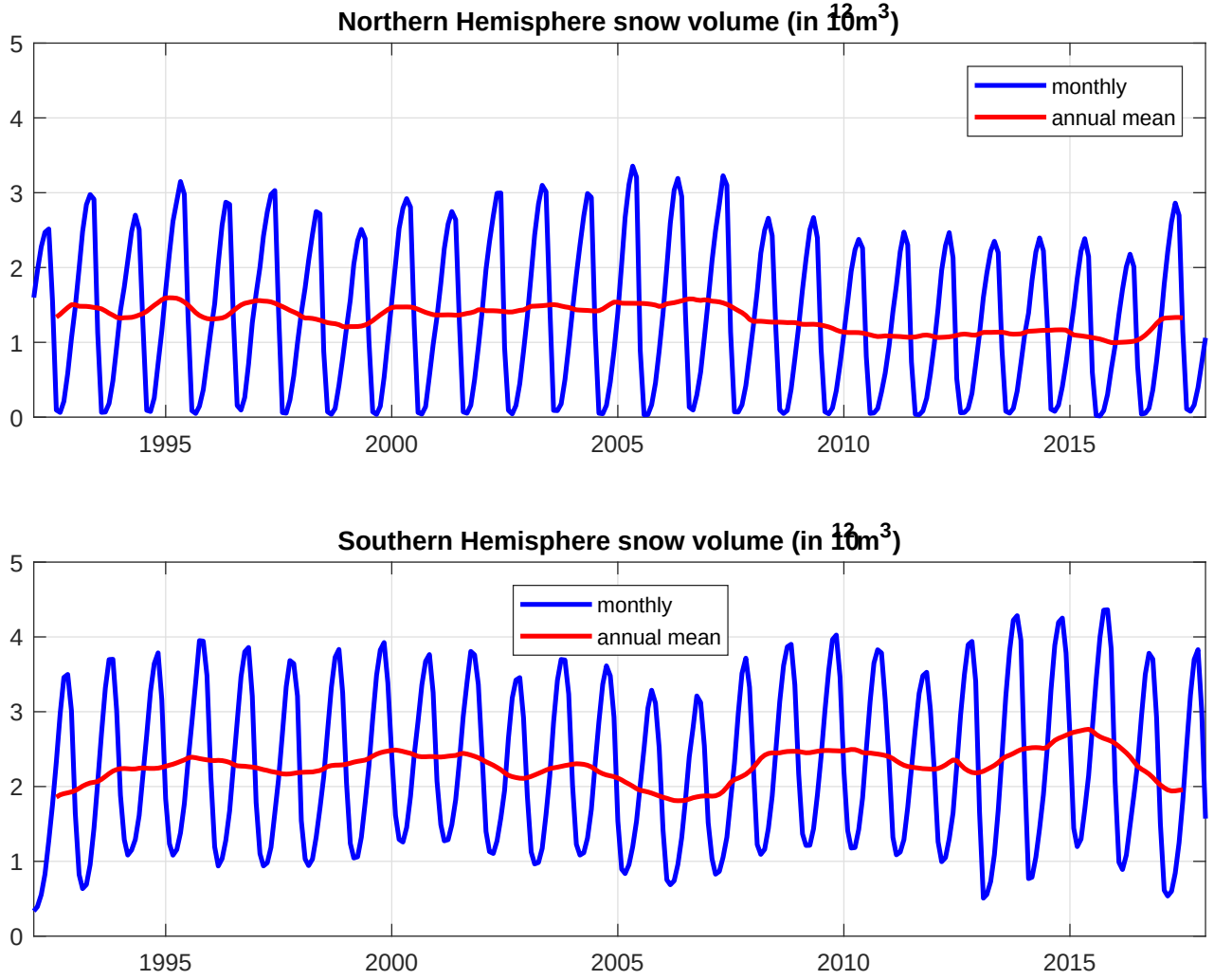

Figure : Snow Volume (in $10^{12} m^3$) in Northern (top) and Southern (bottom) Hemisphere

seaice time series

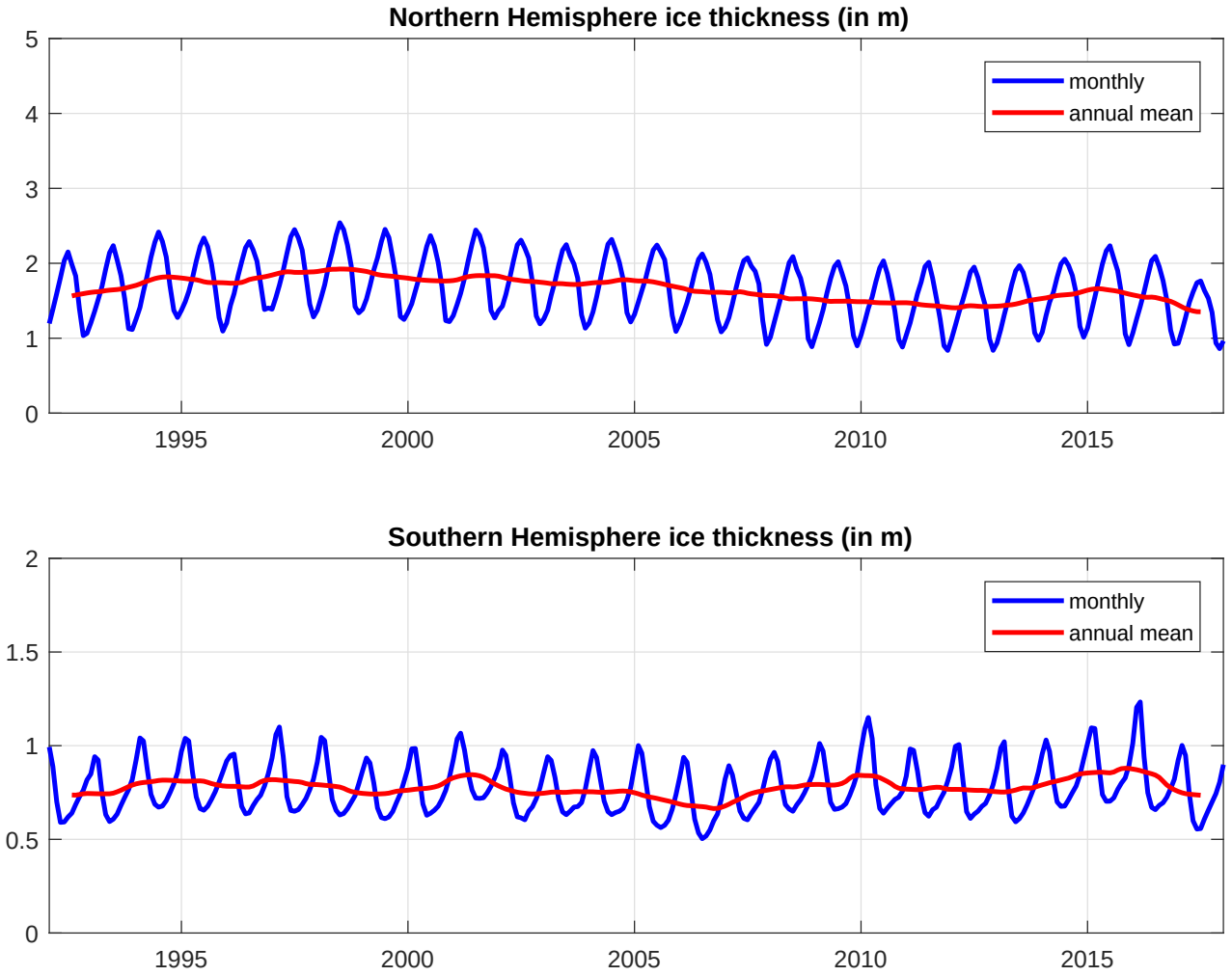

Figure : Sea Ice Thickness (in m) in Northern (top) and Southern (bottom) Hemisphere

seaice time series

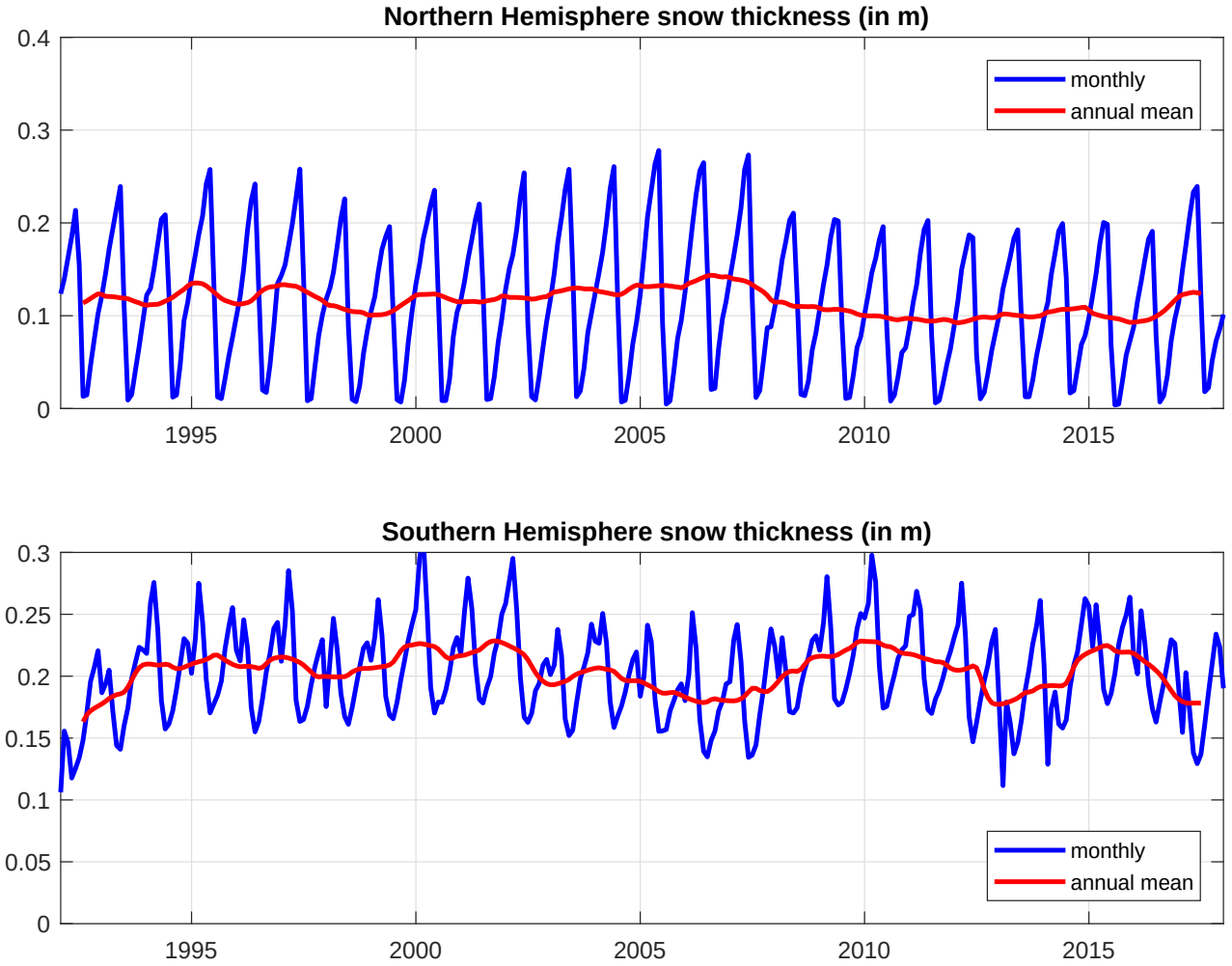

Figure : Snow Thickness (in m) in Northern (top) and Southern (bottom) Hemisphere

budgets : volume, heat and salt (top to bottom)

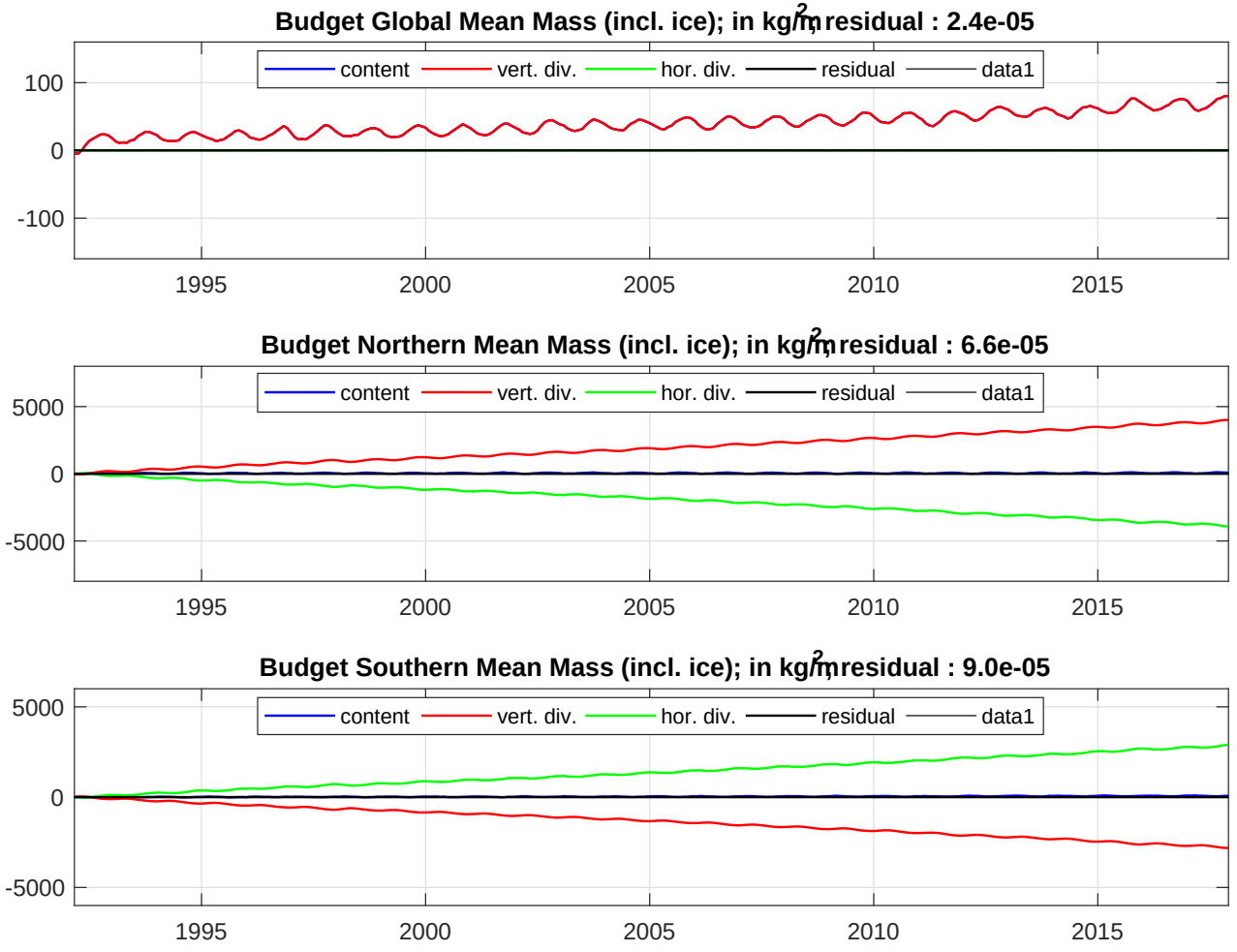

Figure : Global (upper), North (mid) and South (lower) Mass Budget (ocean+ice) in kg/m^2

budgets : volume, heat and salt (top to bottom)

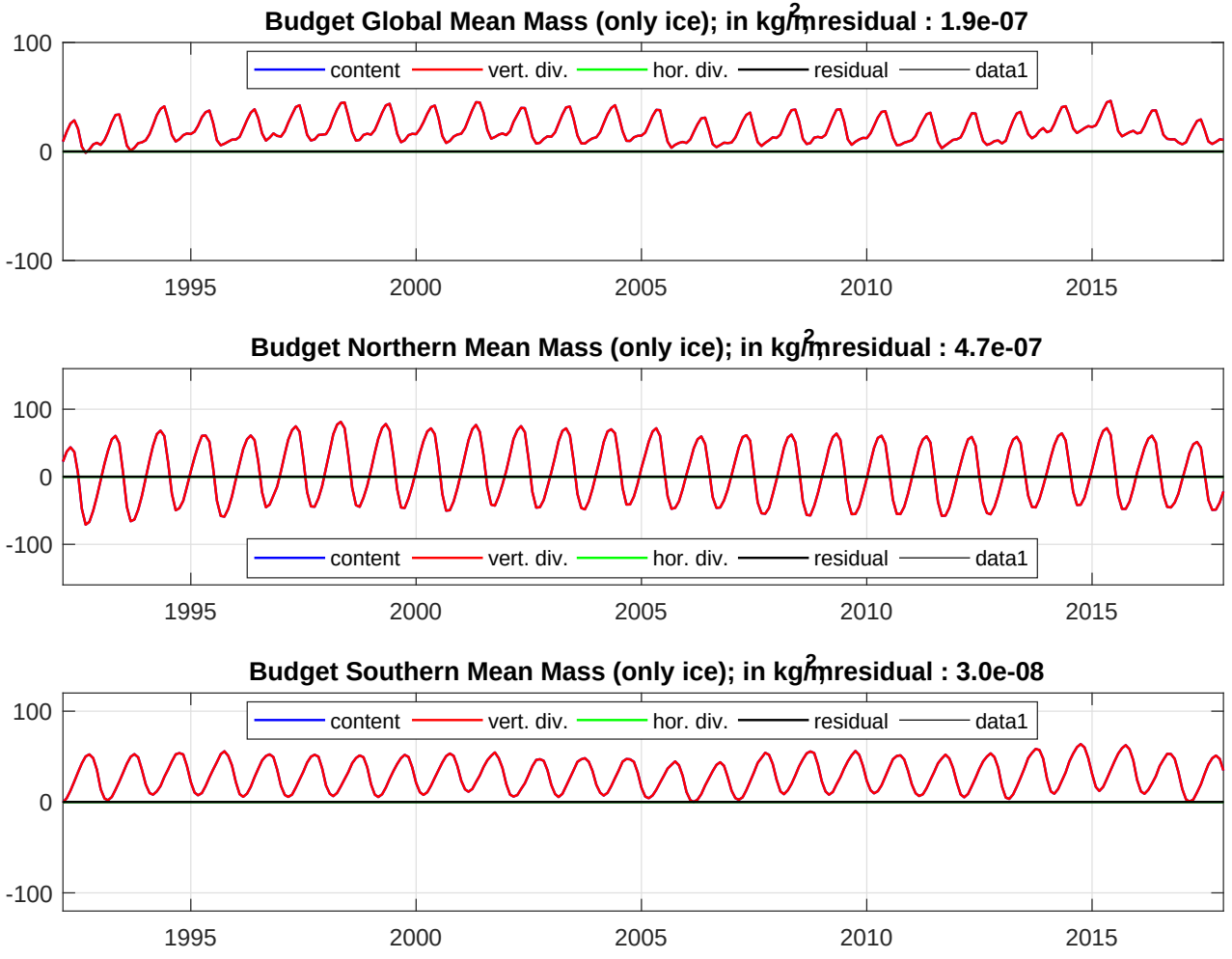

Figure : Global (upper), North (mid) and South (lower) Mass Budget (ice only) in kg/m^2

budgets : volume, heat and salt (top to bottom)

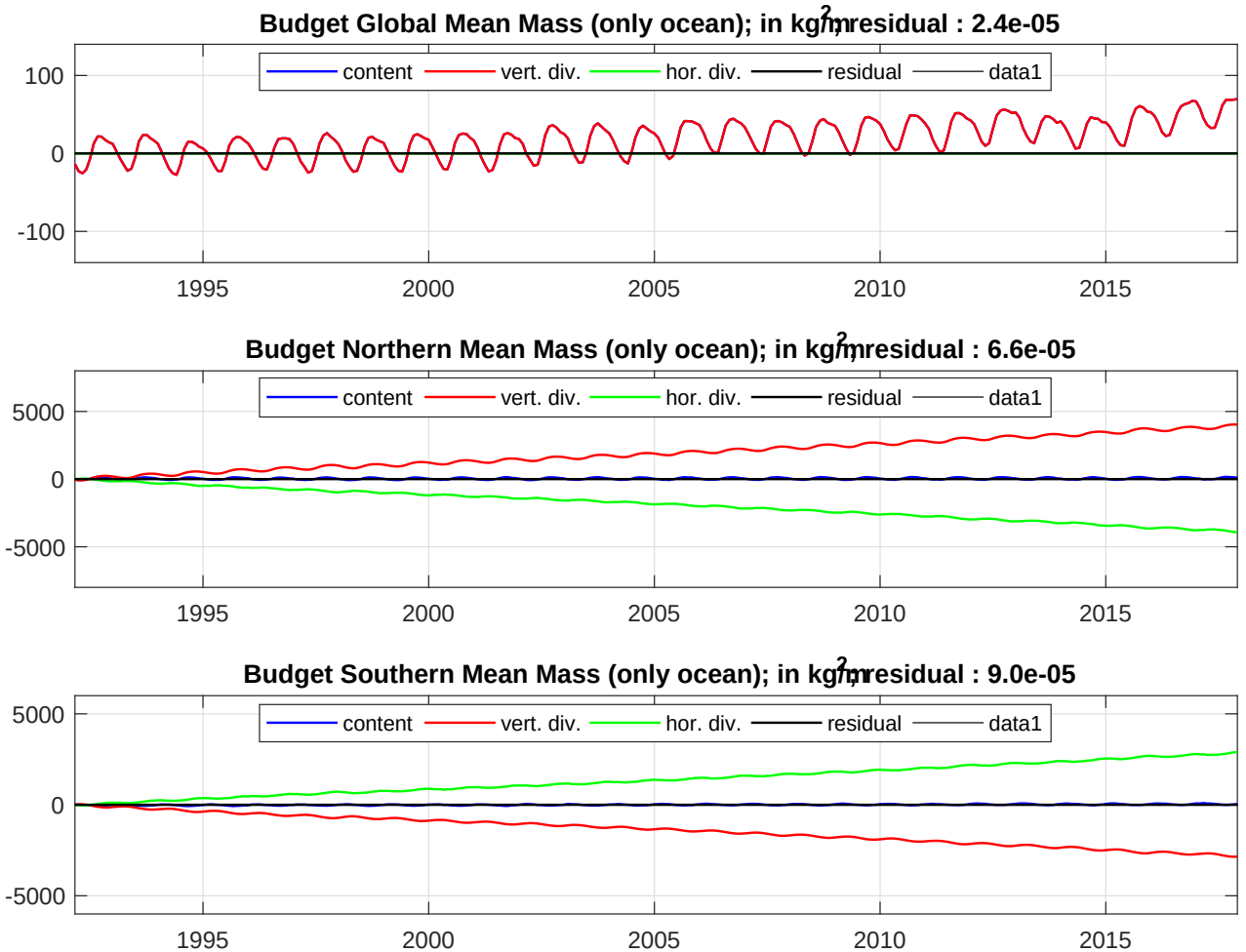

Figure : Global (upper), North (mid) and South (lower) Mass Budget (ocean only) in kg/m^2

budgets : volume, heat and salt (top to bottom)

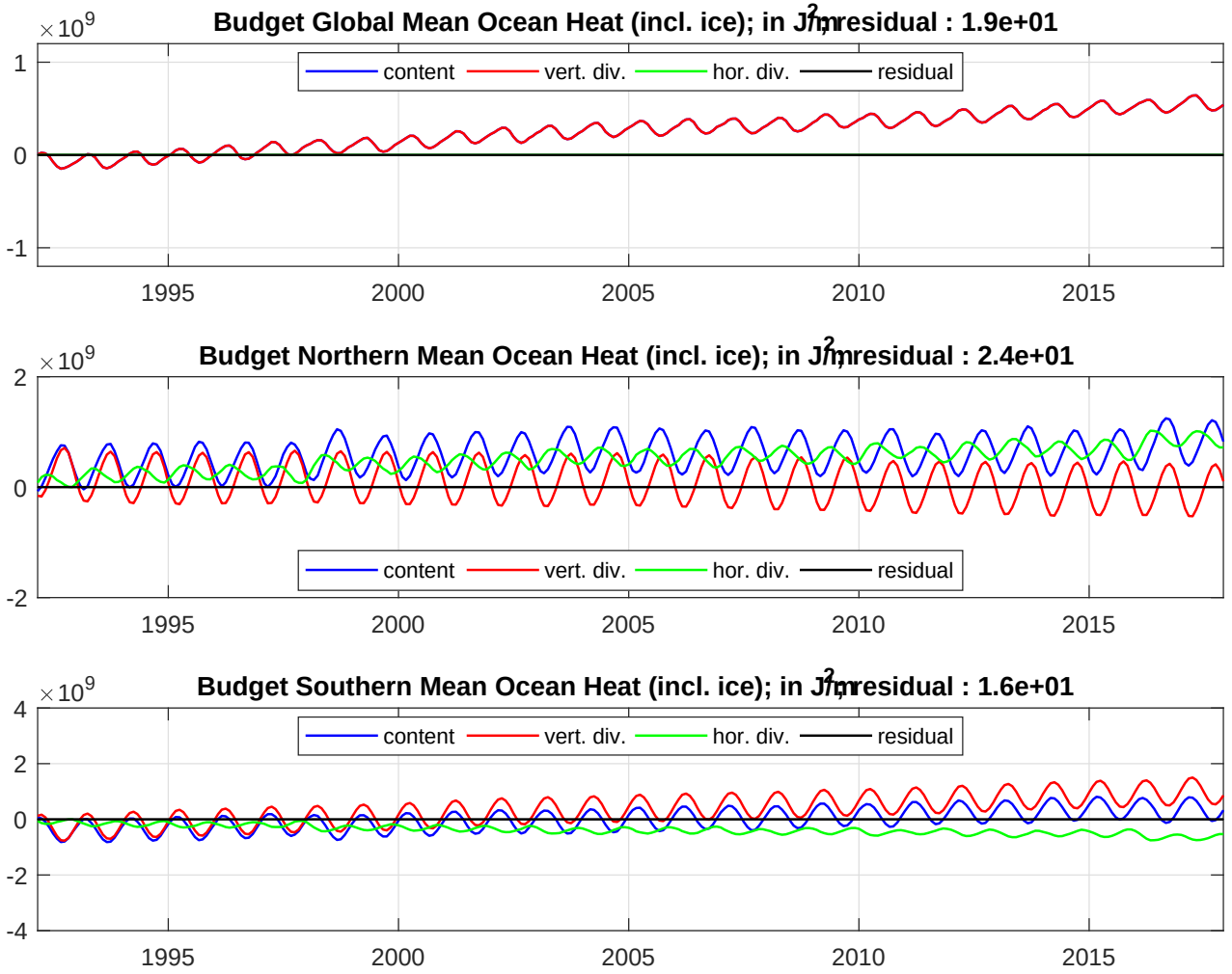

Figure : Global (upper), North (mid) and South (lower) Heat Budget (ocean+ice) in J/m^2

budgets : volume, heat and salt (top to bottom)

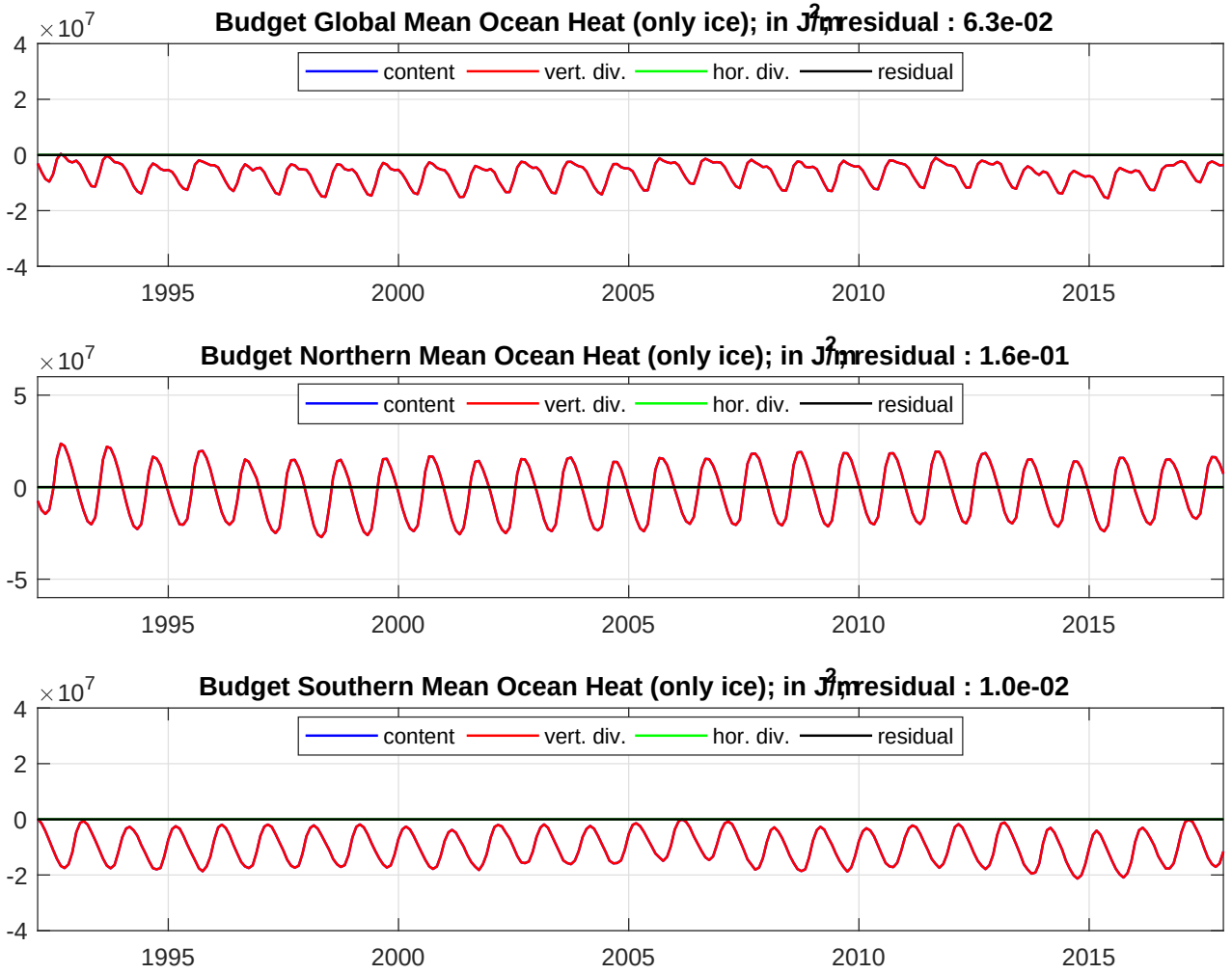

Figure : Global (upper), North (mid) and South (lower) Heat Budget (ice only) in J/m^2

budgets : volume, heat and salt (top to bottom)

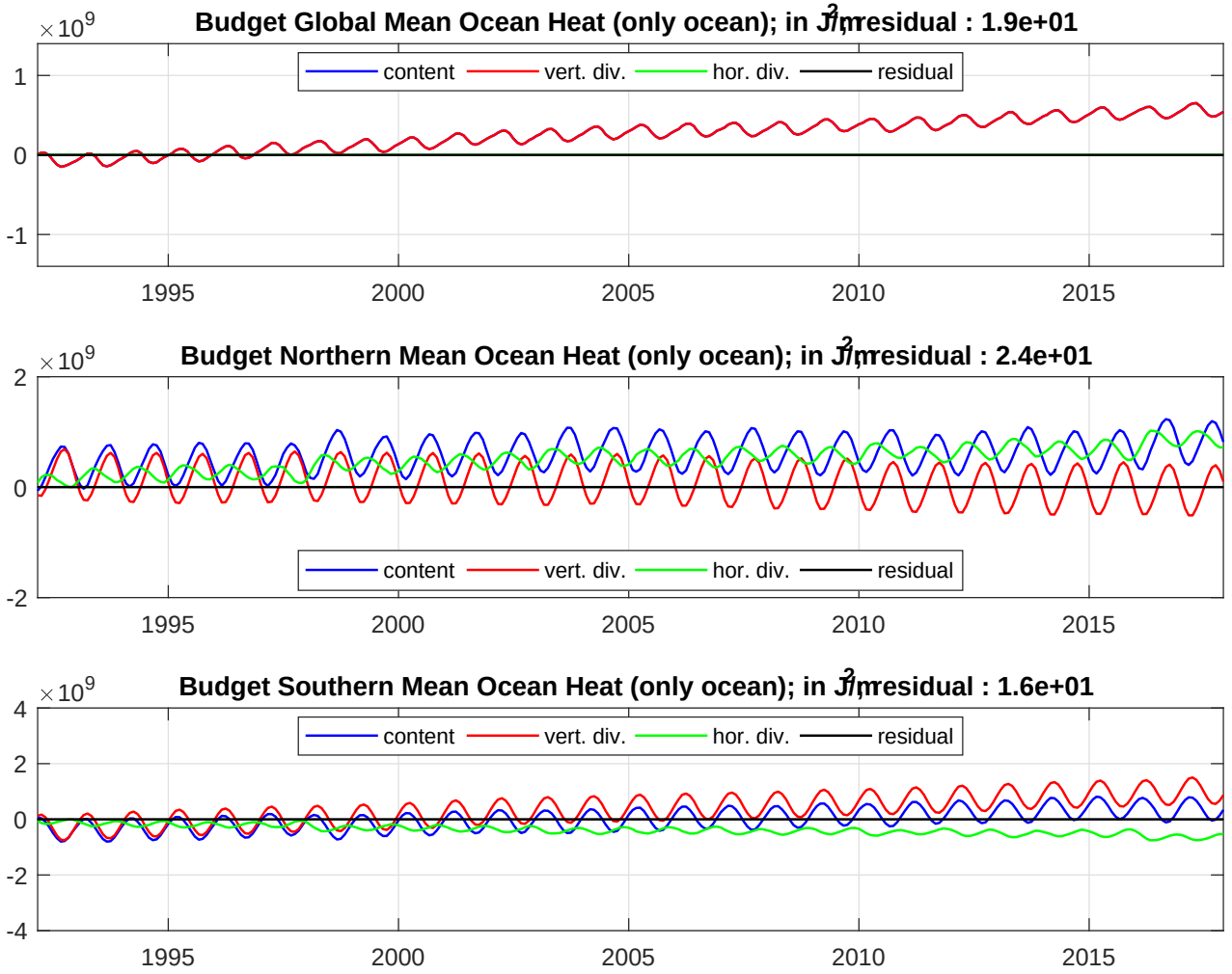

Figure : Global (upper), North (mid) and South (lower) Heat Budget (ocean only) in J/m^2

budgets : volume, heat and salt (top to bottom)

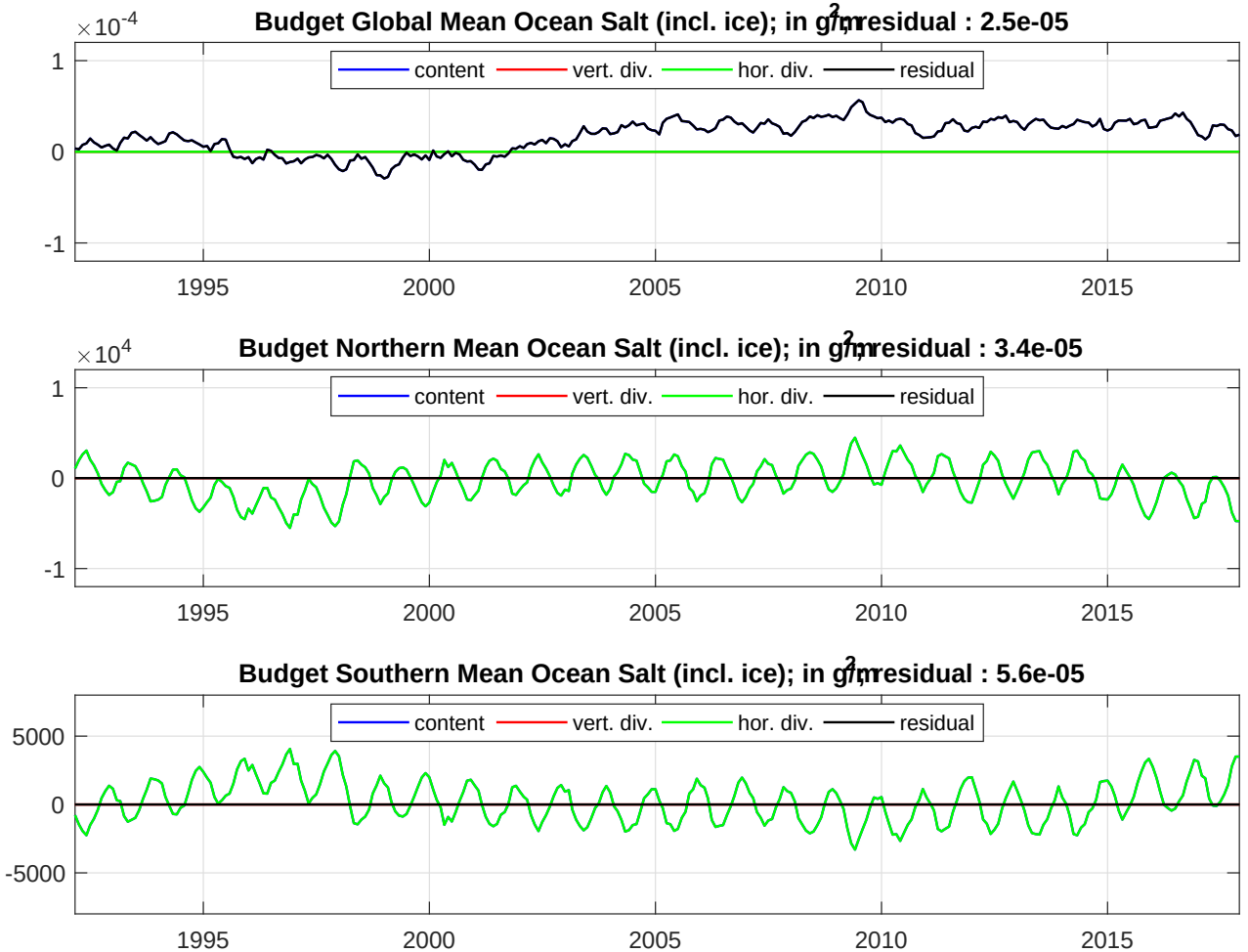

Figure : Global (upper), North (mid) and South (lower) Salt Budget (ocean+ice) in g/m^2

budgets : volume, heat and salt (top to bottom)

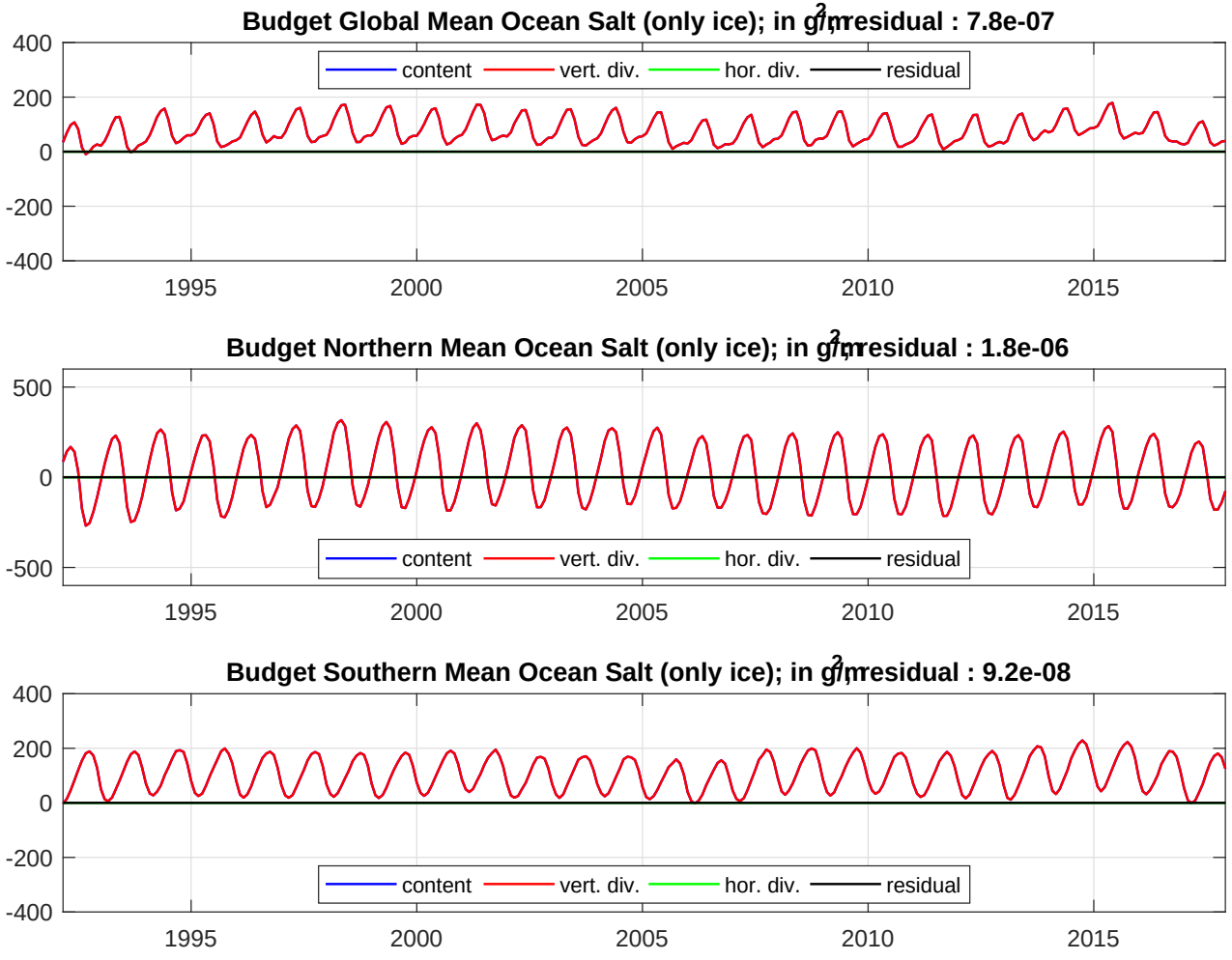

Figure : Global (upper), North (mid) and South (lower) Salt Budget (ice only) in g/m^2

budgets : volume, heat and salt (top to bottom)

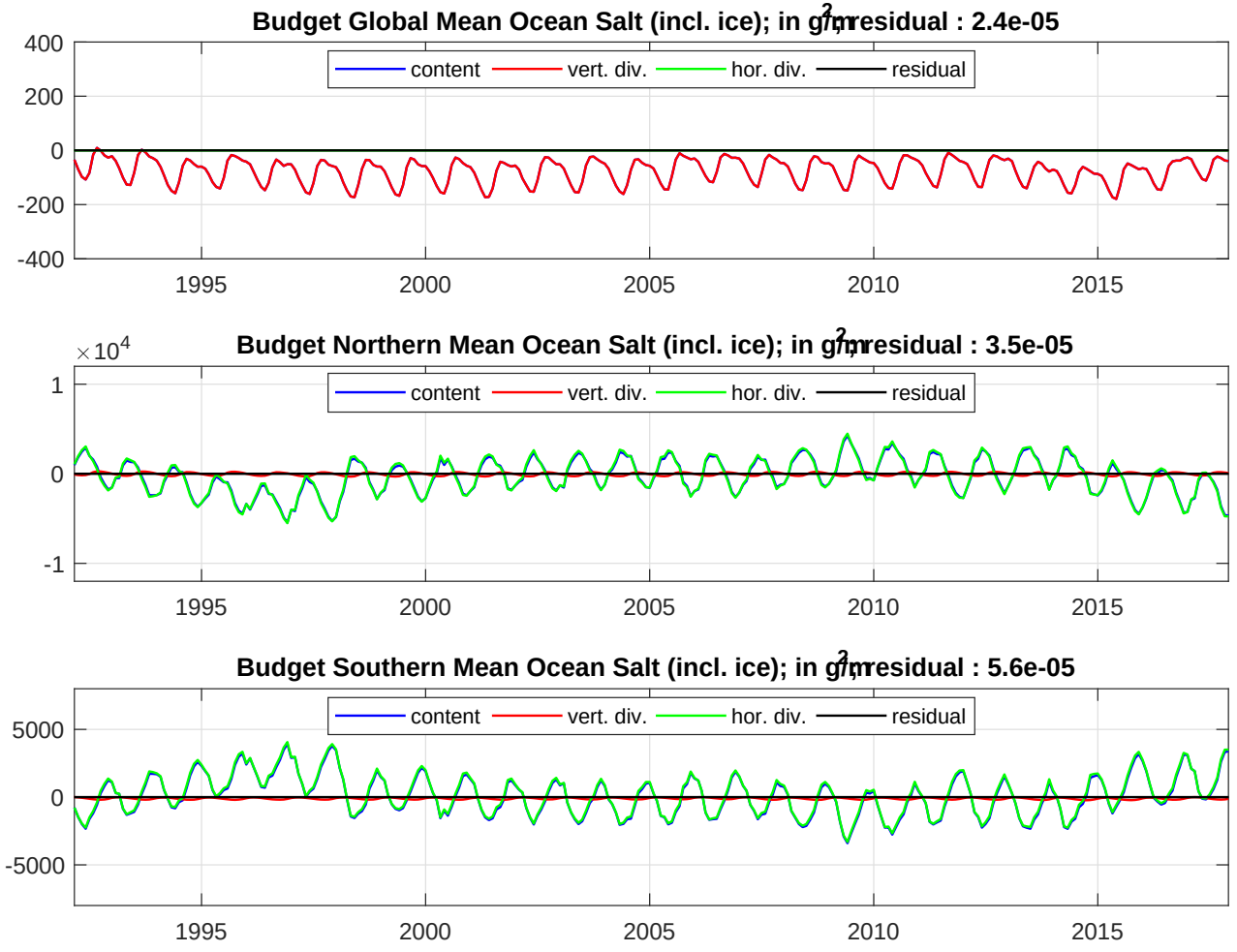

Figure : Global (upper), North (mid) and South (lower) Salt Budget (ocean only) in g/m^2

mixed layer depth fields

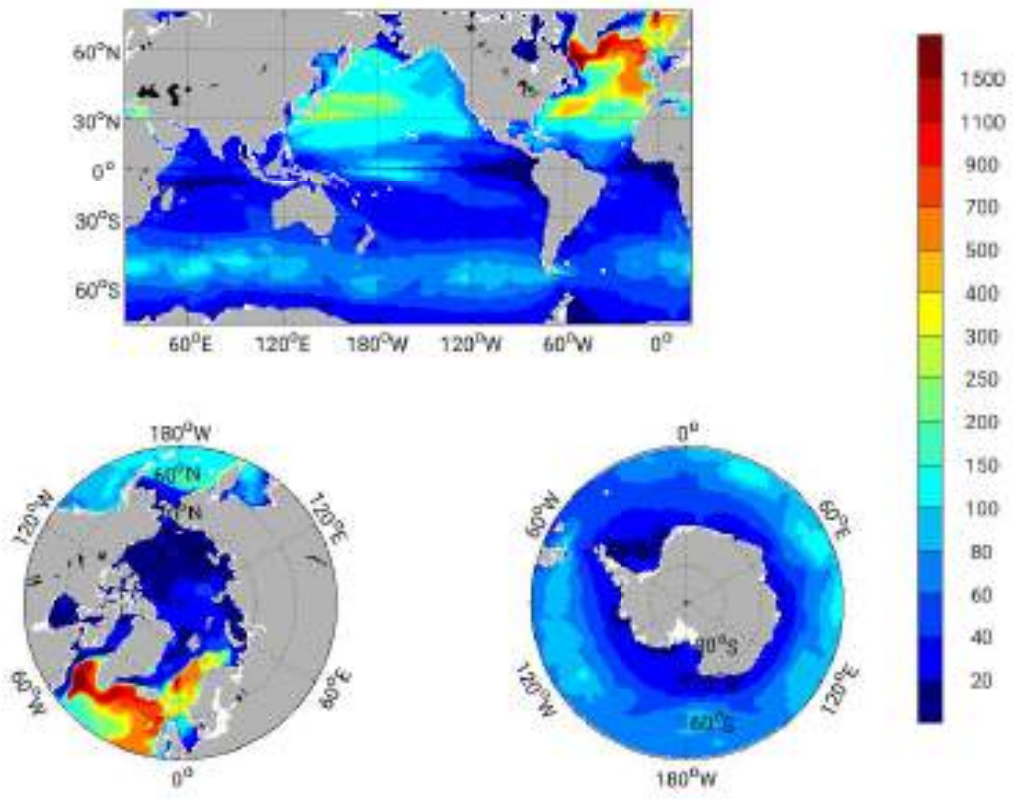

Figure : March Mixed Layer Depth per Kara Formula (m): 1992 thru 2017 Mean

mixed layer depth fields

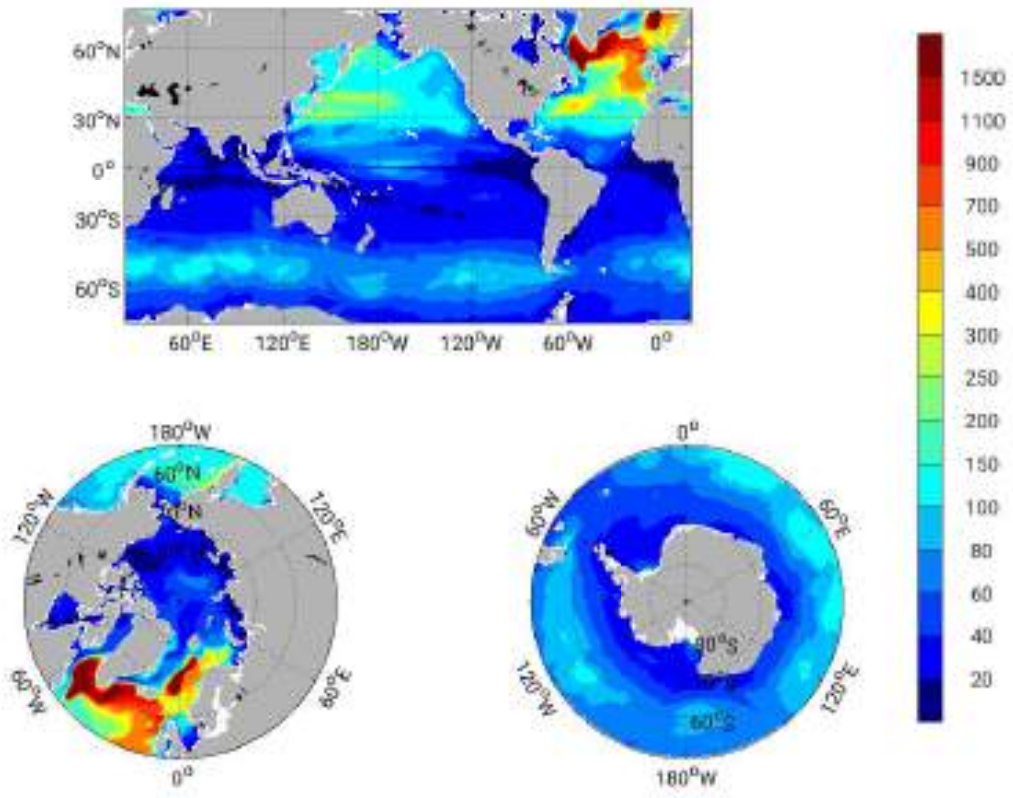

Figure : March Mixed Layer Depth per Suga Formula (m): 1992 thru 2017 Mean

mixed layer depth fields

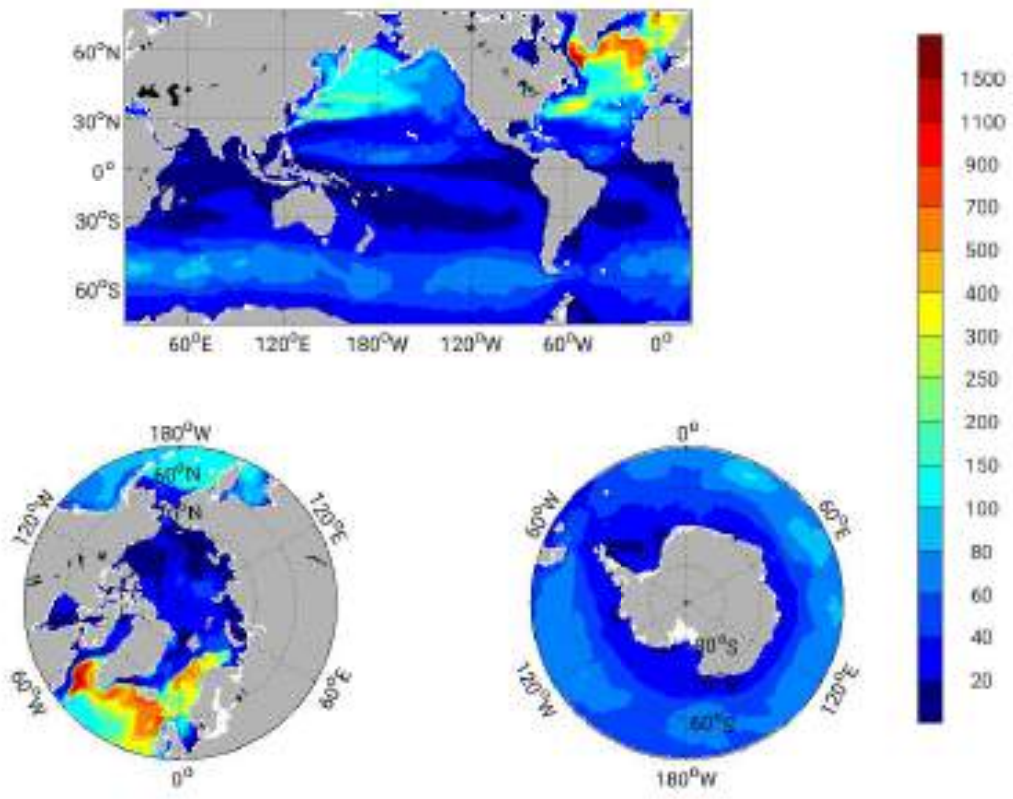

Figure : March Mixed Layer Depth per Boyer M. Formula (m): 1992 thru 2017 Mean

mixed layer depth fields

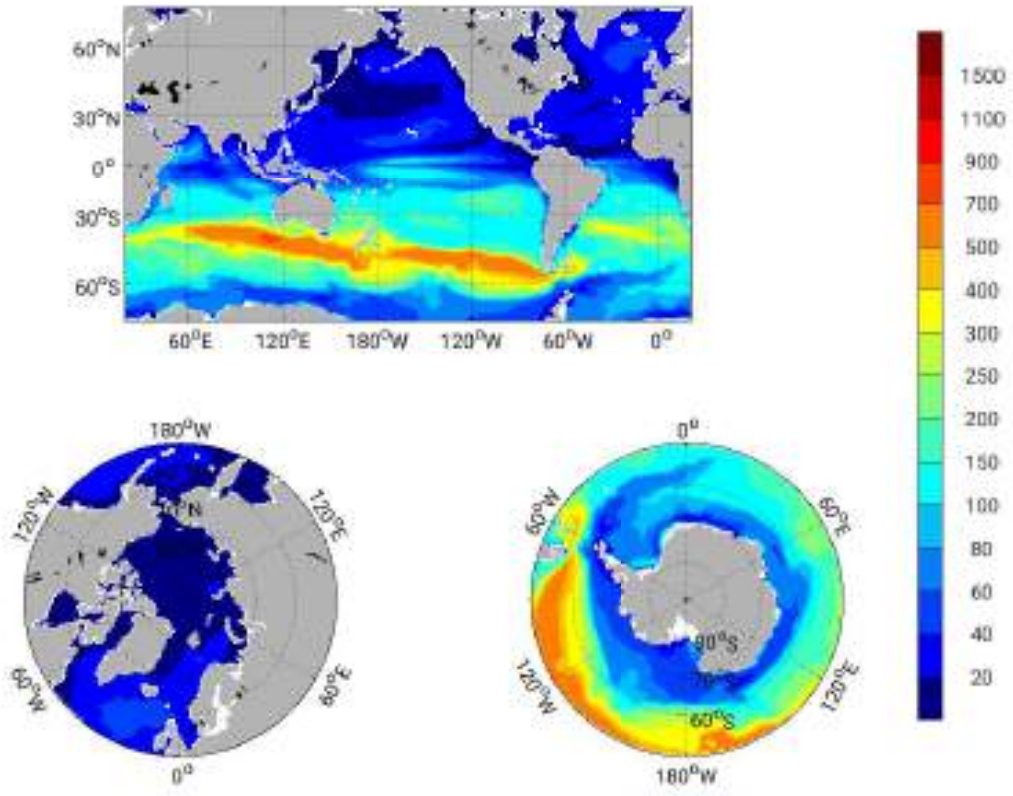

Figure : September Mixed Layer Depth per Kara Formula (m): 1992 thru 2017 Mean

mixed layer depth fields

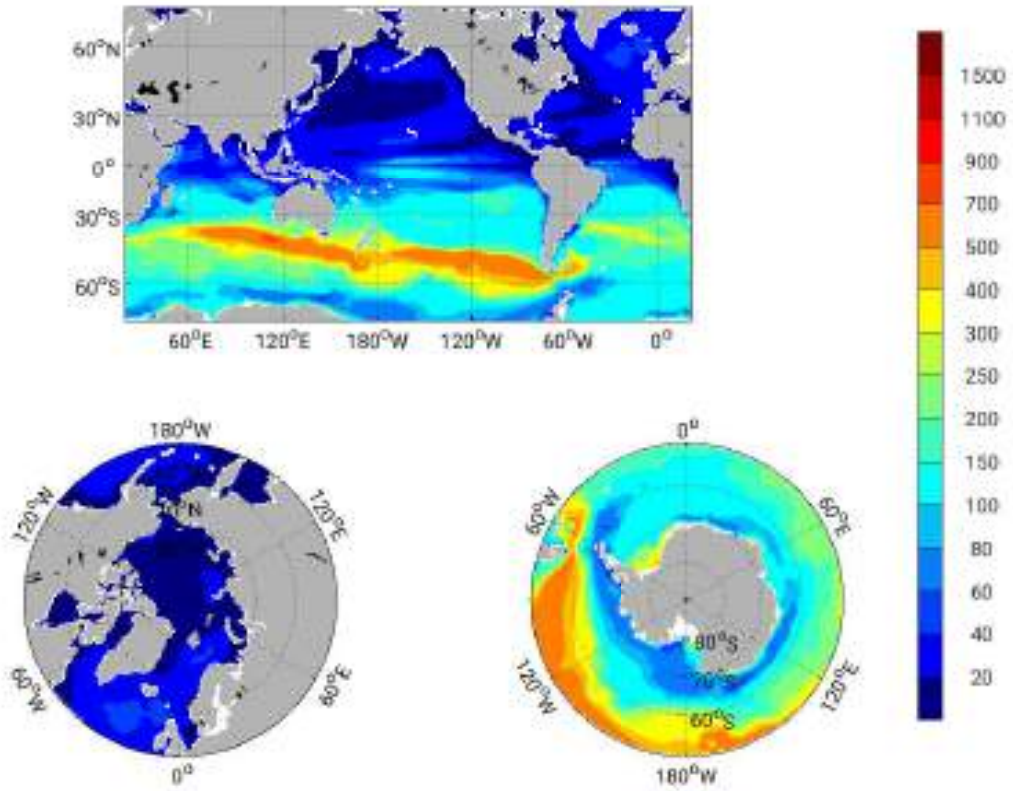

Figure : September Mixed Layer Depth per Suga Formula (m): 1992 thru 2017 Mean

mixed layer depth fields

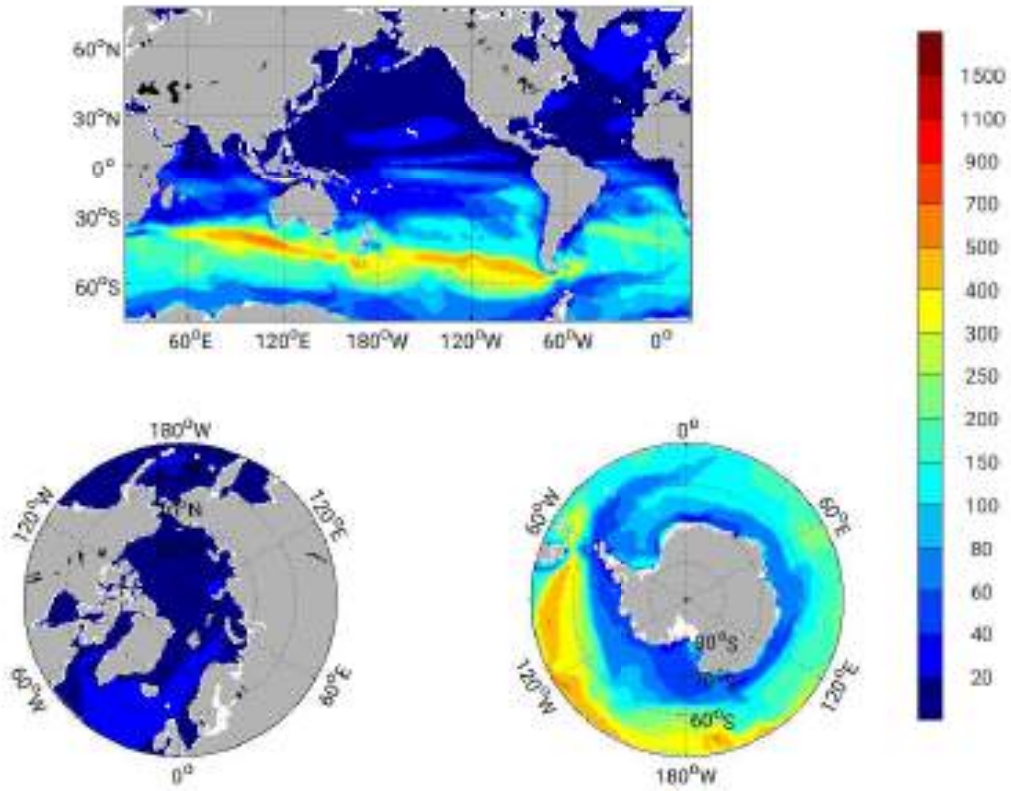

Figure : September Mixed Layer Depth per Boyer M. Formula (m): 1992 thru 2017 Mean

Monthly Thickness Distribution

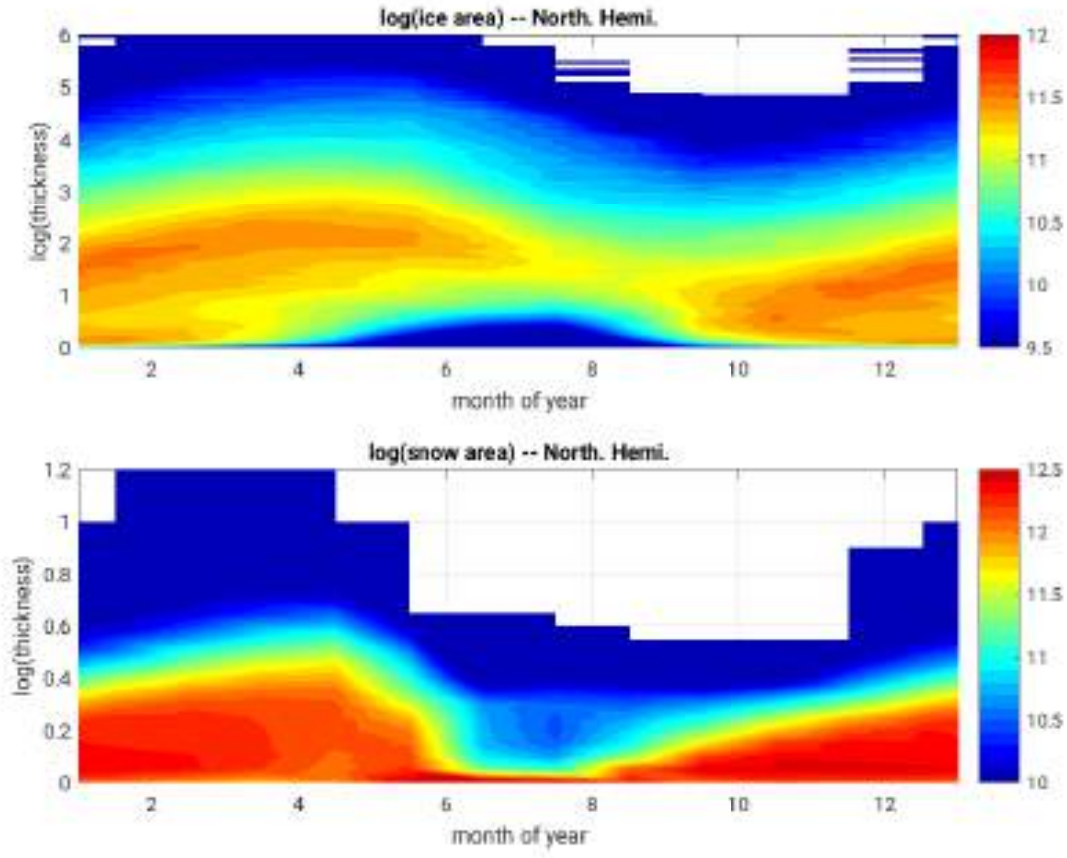

Figure : Northern Hemisphere Monthly Mean Sea Ice (top) and Snow (bottom) Thickness Distribution ($\log(m^2)$): 1992 thru 2017 Mean

Monthly Thickness Distribution

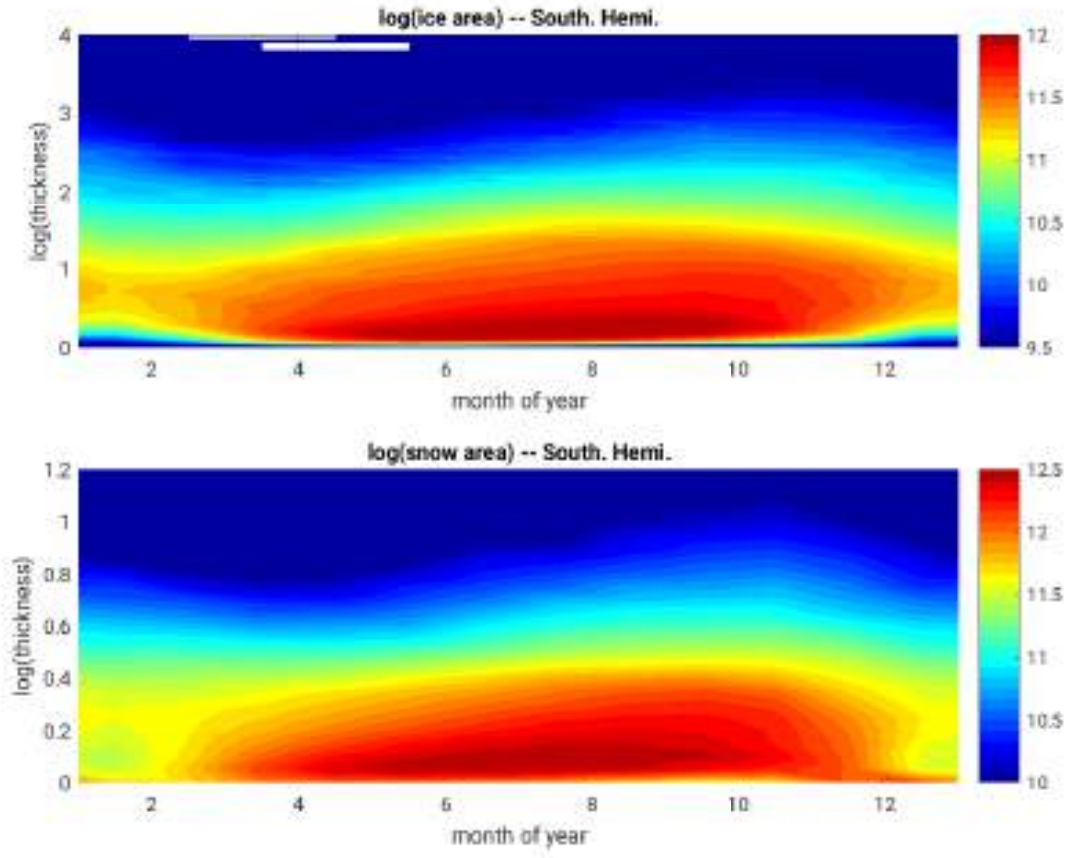

Figure : Southern Hemisphere Monthly Mean Sea Ice (top) and Snow (bottom) Thickness Distribution ($\log(m^2)$): 1992 thru 2017 Mean

Sea Ice Concentration (unitless): March

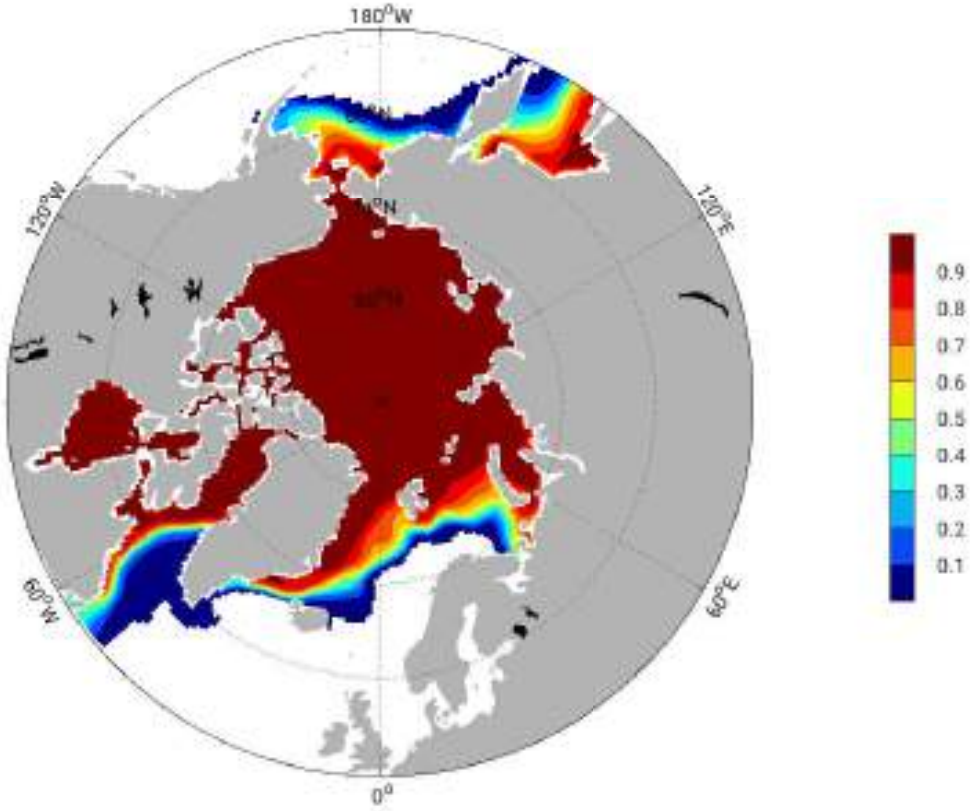

Figure : March Sea Ice Concentration (unitless): 1992 thru 2017 Mean

Sea Ice Thickness (m): March

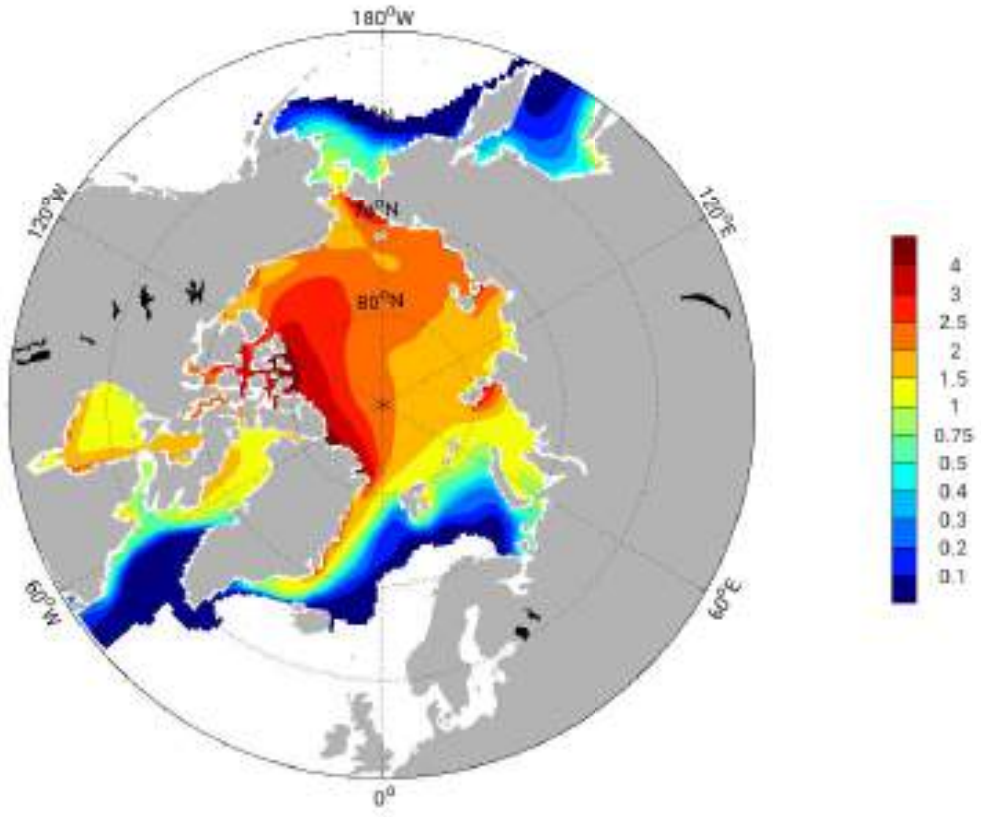

Figure : March Sea Ice Thickness (m): 1992 thru 2017 Mean

Snow Thickness (m): March

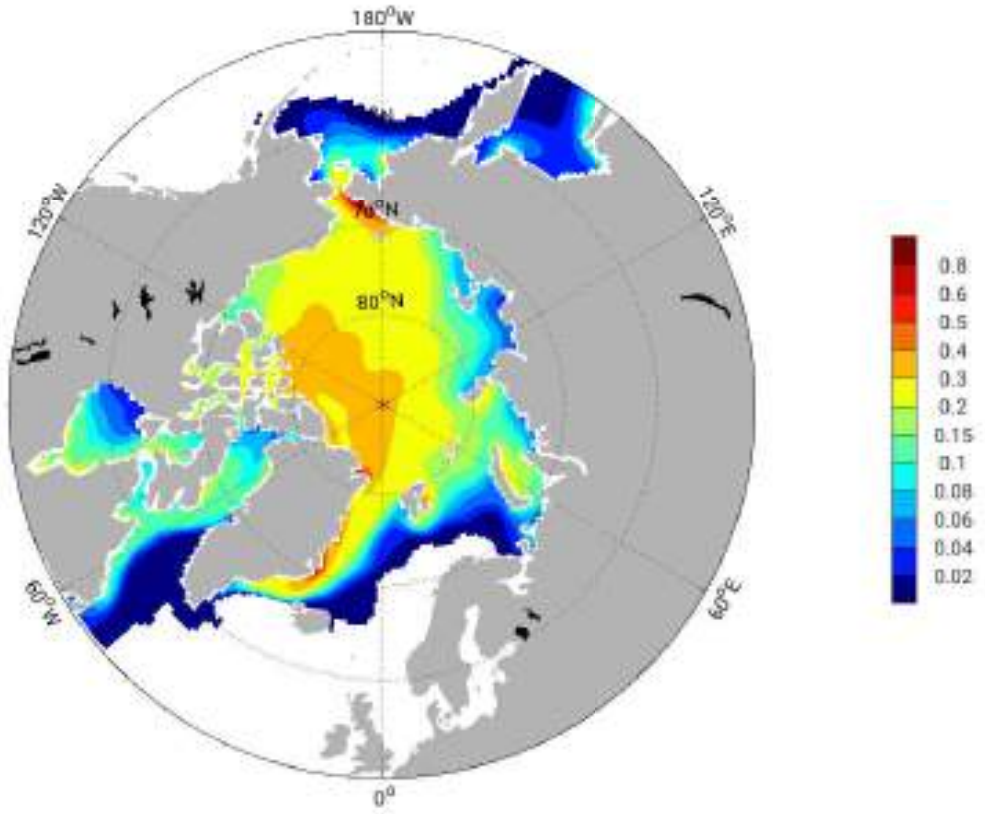

Figure : March Snow Thickness (m): 1992 thru 2017 Mean

Sea Ice+Snow Streamfunction (megaton/s): March

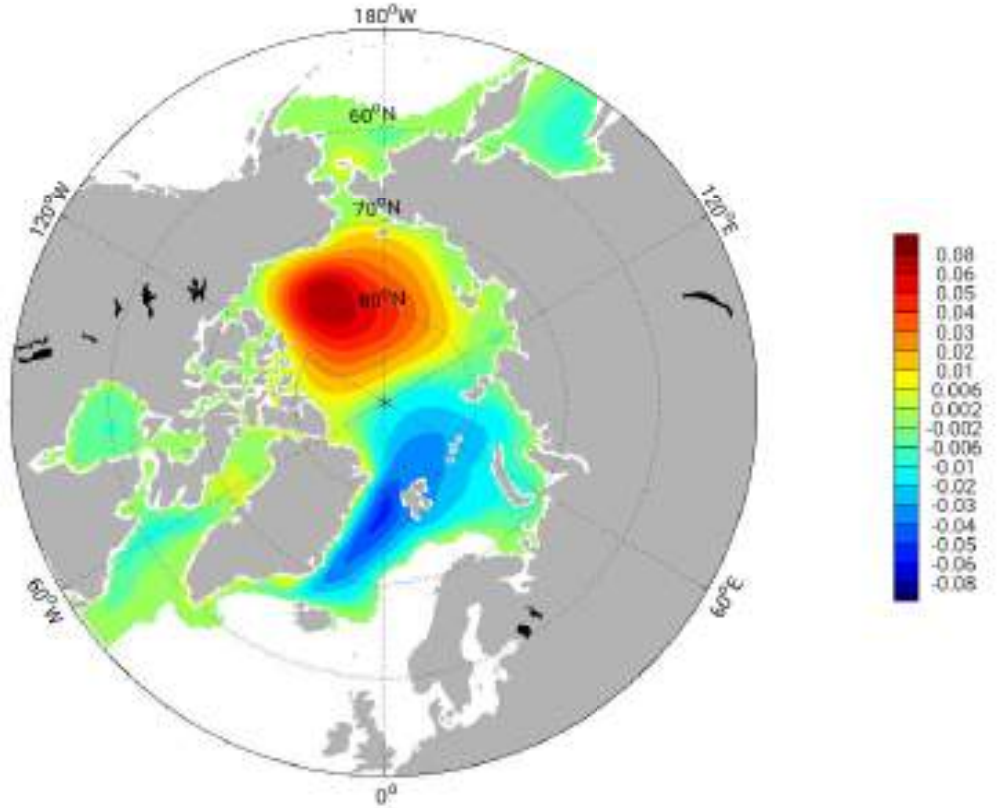

Figure : March Sea Ice+Snow Streamfunction (megaton/s): 1992 thru 2017 Mean

Sea Ice+Snow Convergence (kiloton/s): March

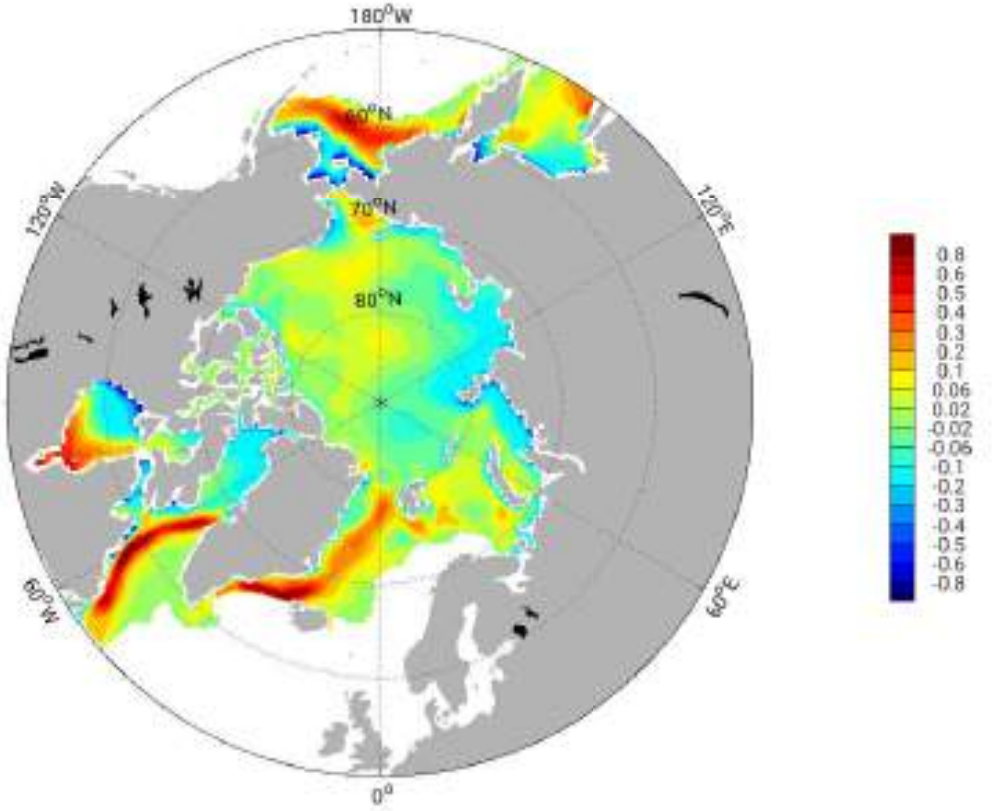

Figure : March Sea Ice+Snow Convergence (kiloton/s): 1992 thru 2017 Mean

Sea Ice Concentration (unitless): September

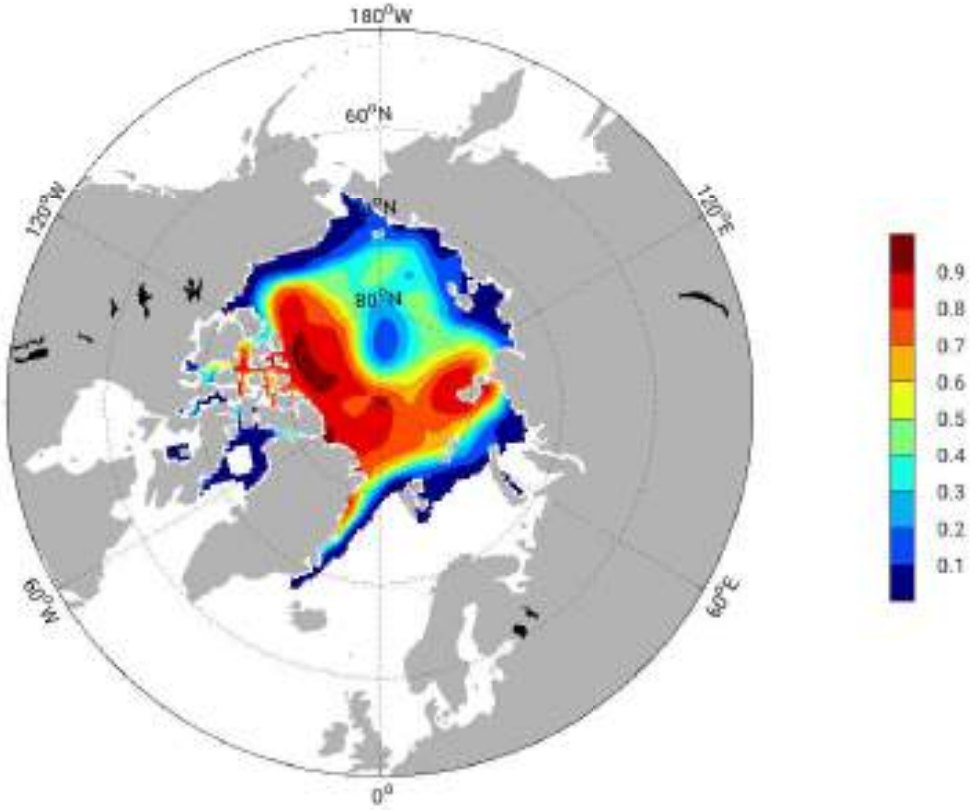

Figure : September Sea Ice Concentration (unitless): 1992 thru 2017 Mean

Sea Ice Thickness (m): September

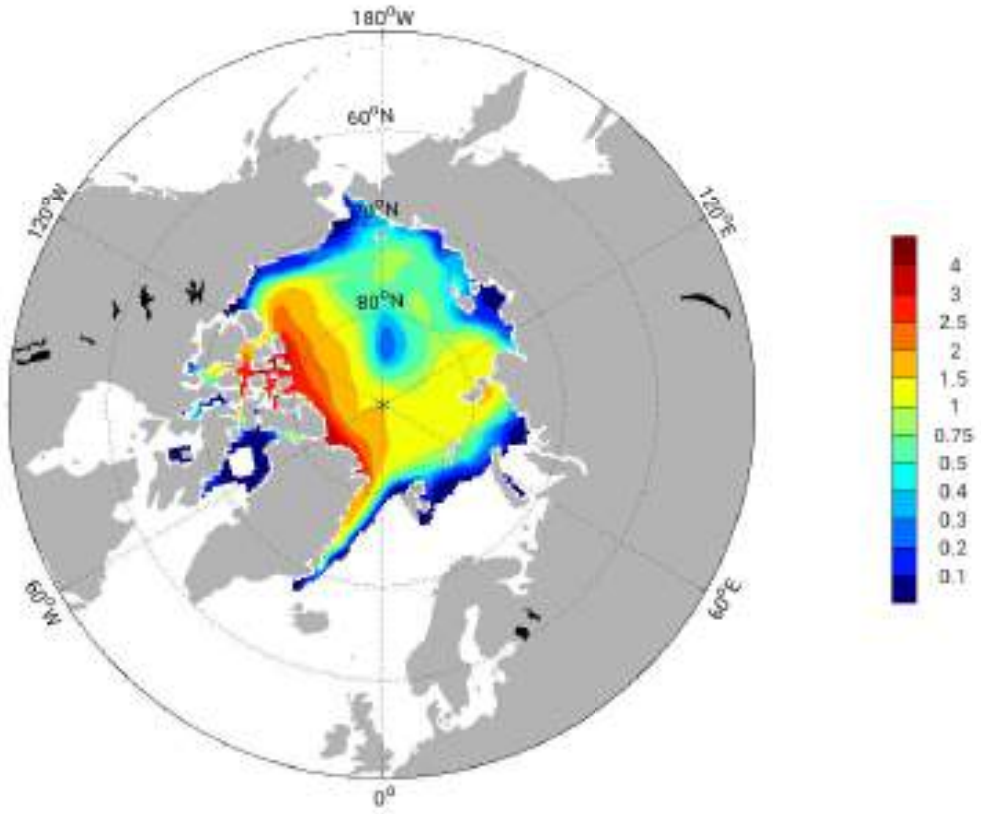

Figure : September Sea Ice Thickness (m): 1992 thru 2017 Mean

Snow Thickness (m): September

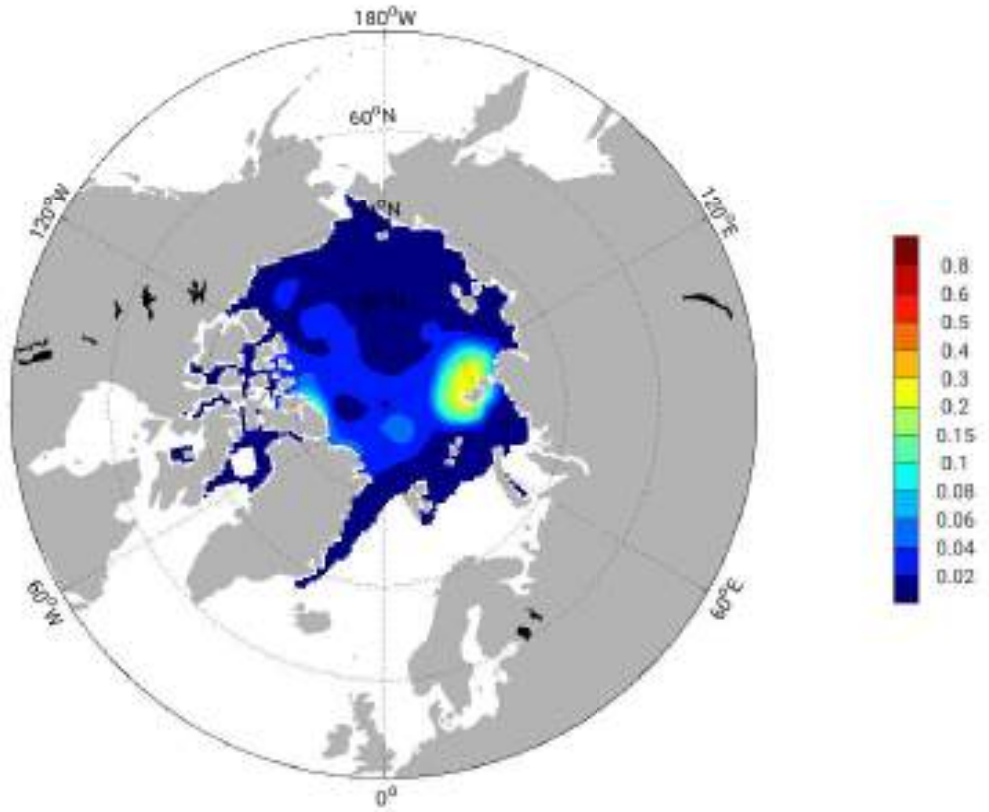

Figure : September Snow Thickness (m): 1992 thru 2017 Mean

Sea Ice+Snow Streamfunction (megaton/s): September

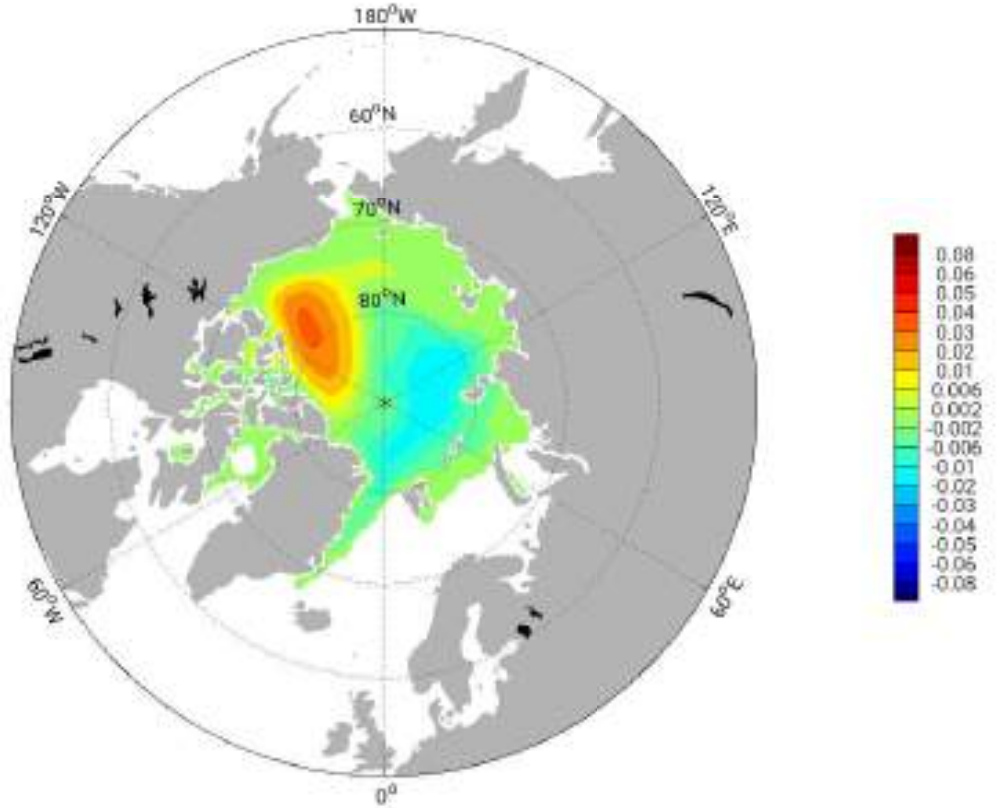

Figure : September Sea Ice+Snow Streamfunction (megaton/s): 1992 thru 2017 Mean

Sea Ice+Snow Convergence (kiloton/s): September

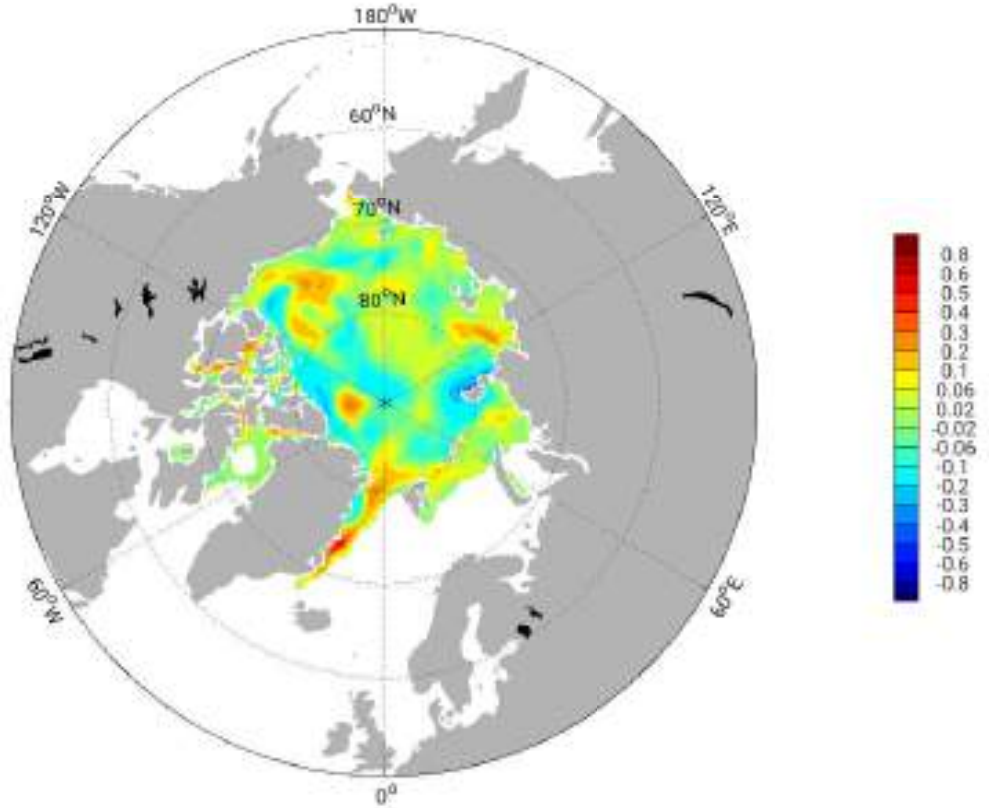

Figure : September Sea Ice+Snow Convergence (kiloton/s): 1992 thru 2017 Mean

Sea Ice Concentration (unitless): March

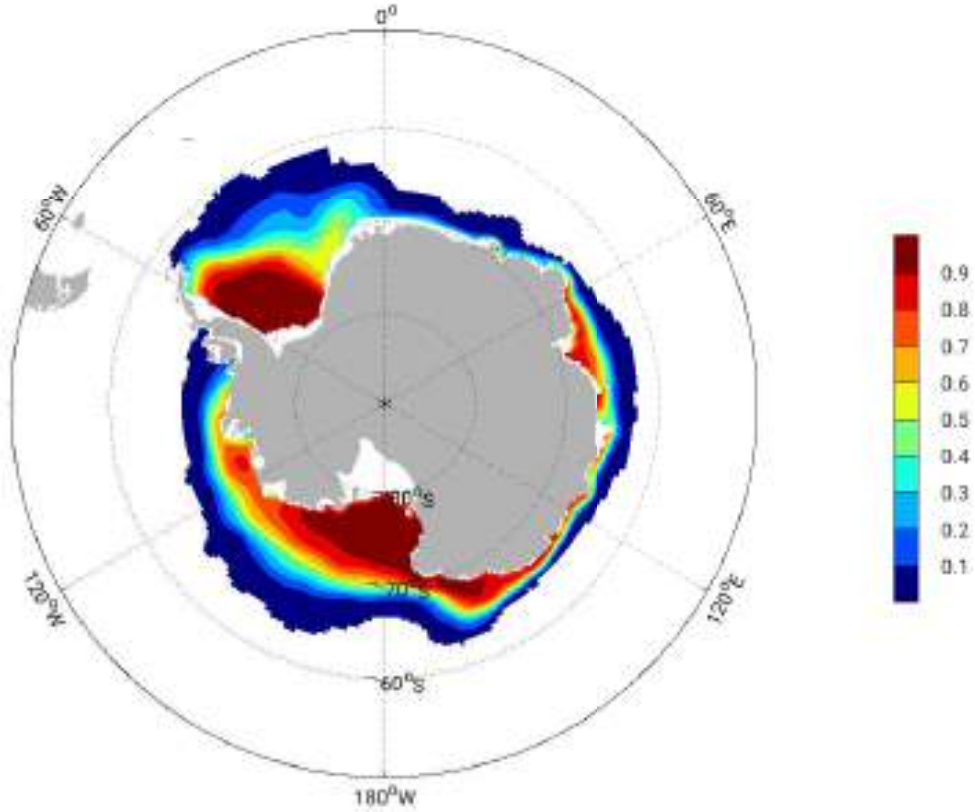

Figure : March Sea Ice Concentration (unitless): 1992 thru 2017 Mean

Sea Ice Thickness (m): March

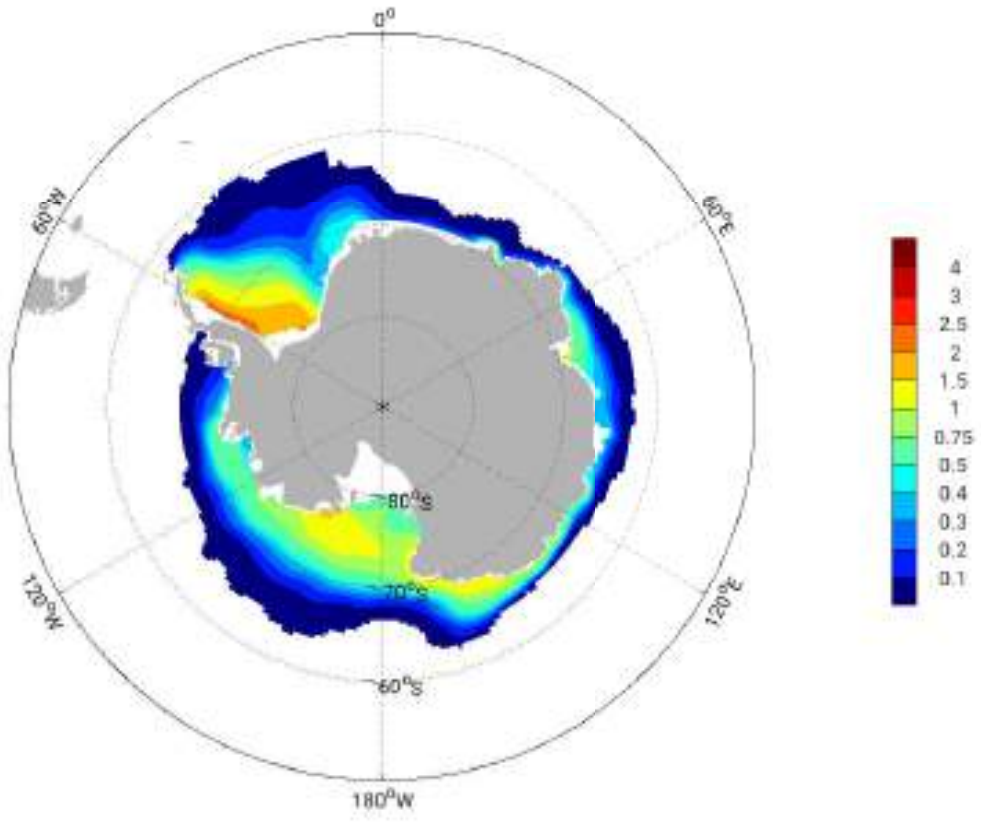

Figure : March Sea Ice Thickness (m): 1992 thru 2017 Mean

Snow Thickness (m): March

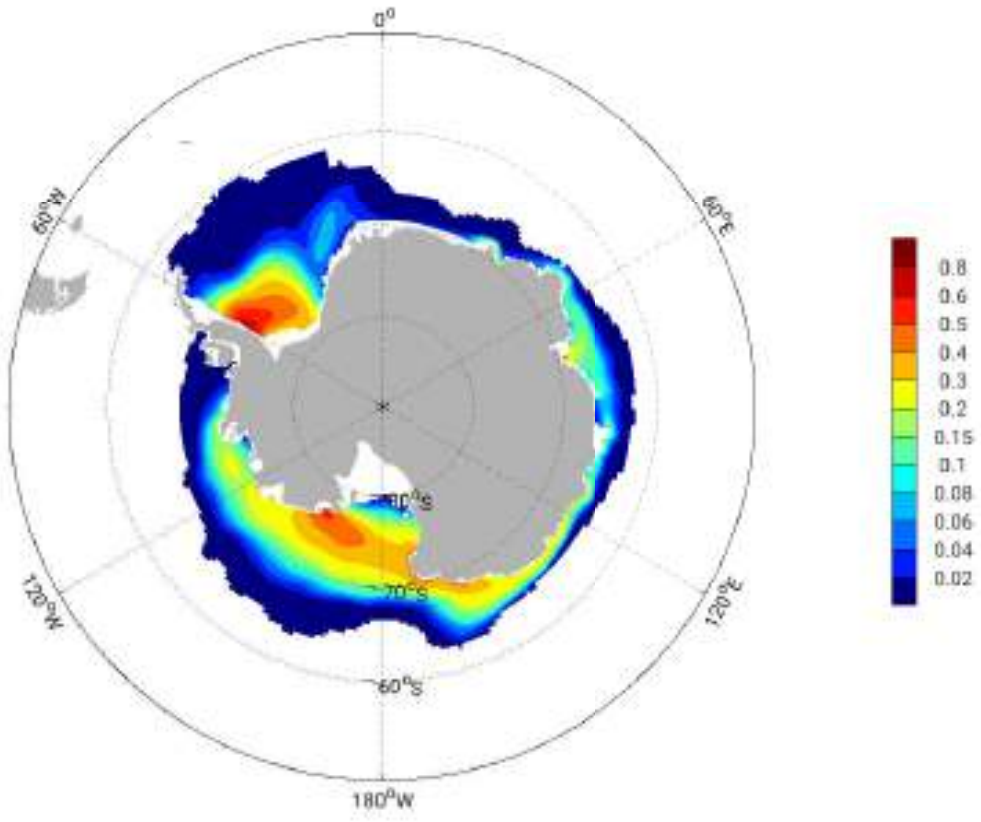

Figure : March Snow Thickness (m): 1992 thru 2017 Mean

Sea Ice+Snow Streamfunction (megaton/s): March

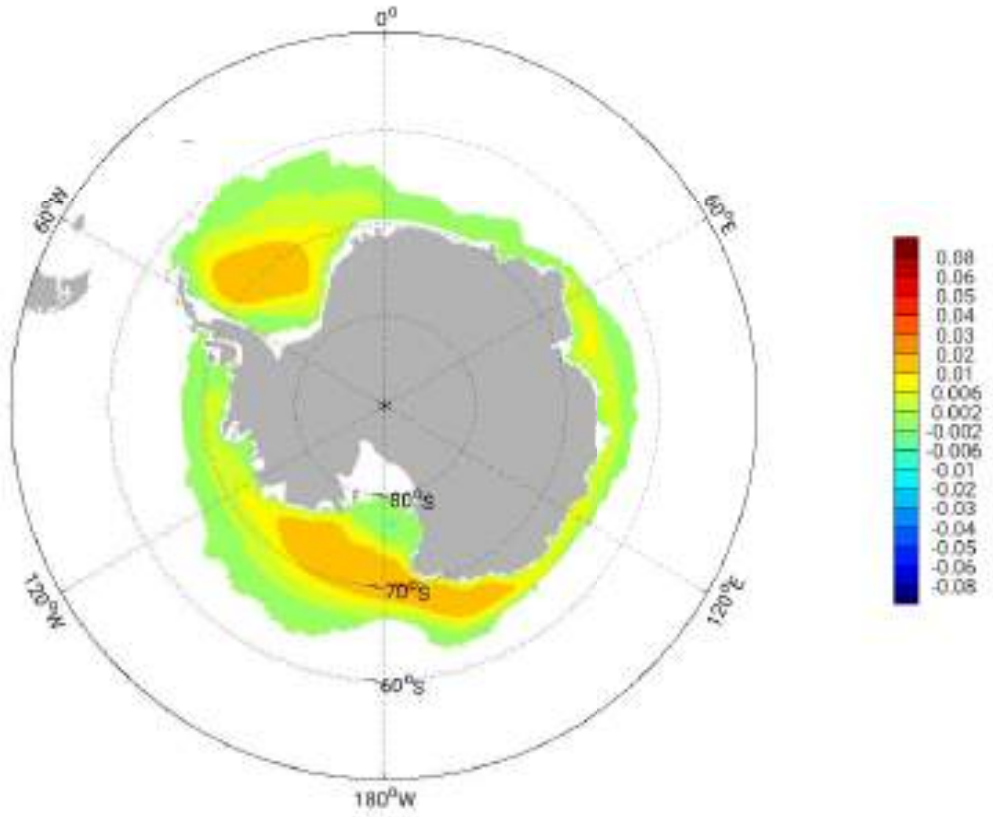

Figure : March Sea Ice+Snow Streamfunction (megaton/s): 1992 thru 2017 Mean

Sea Ice+Snow Convergence (kiloton/s): March

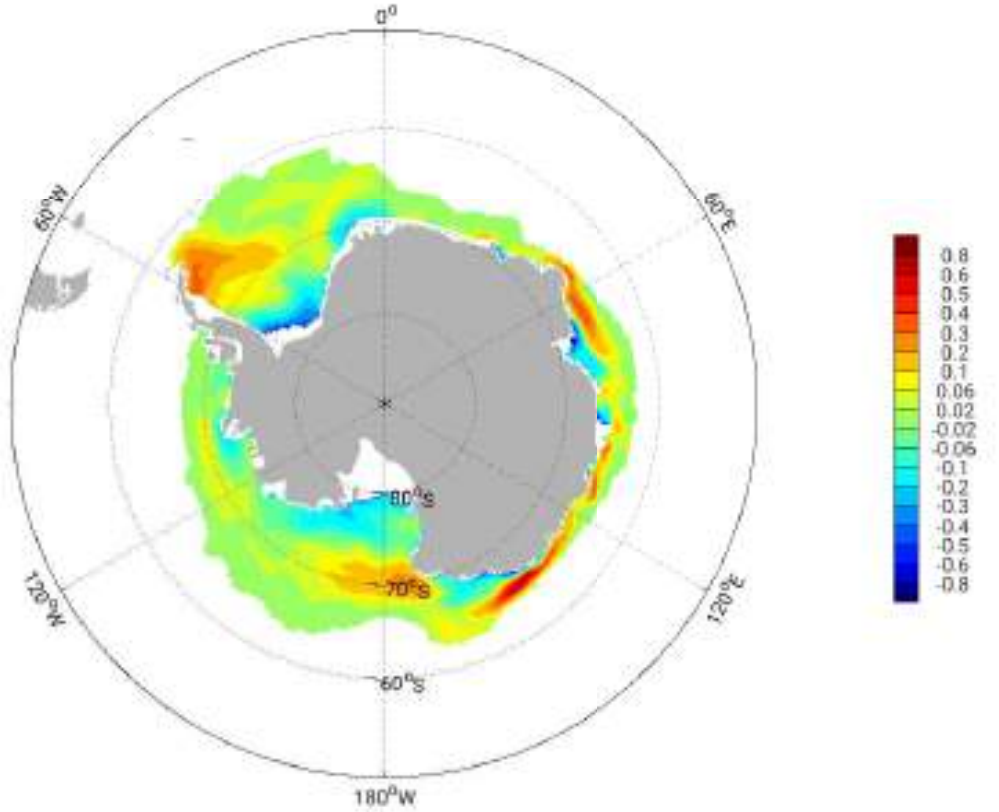

Figure : March Sea Ice+Snow Convergence (kiloton/s): 1992 thru 2017 Mean

Sea Ice Concentration (unitless): September

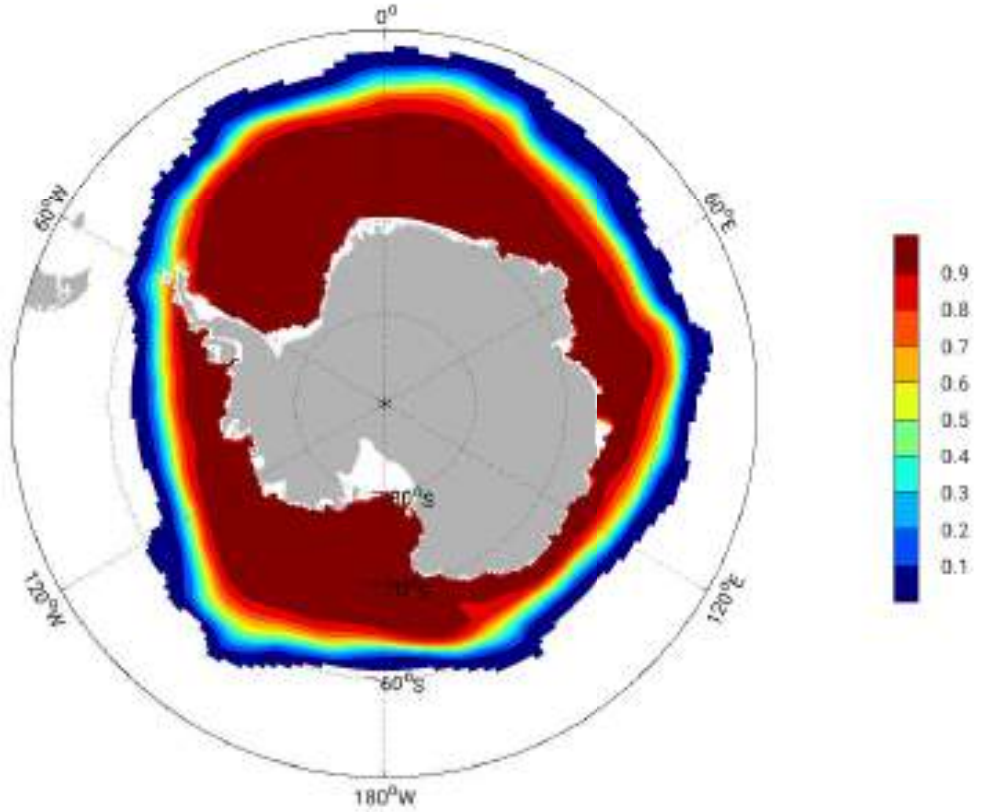

Figure : September Sea Ice Concentration (unitless): 1992 thru 2017 Mean

Sea Ice Thickness (m): September

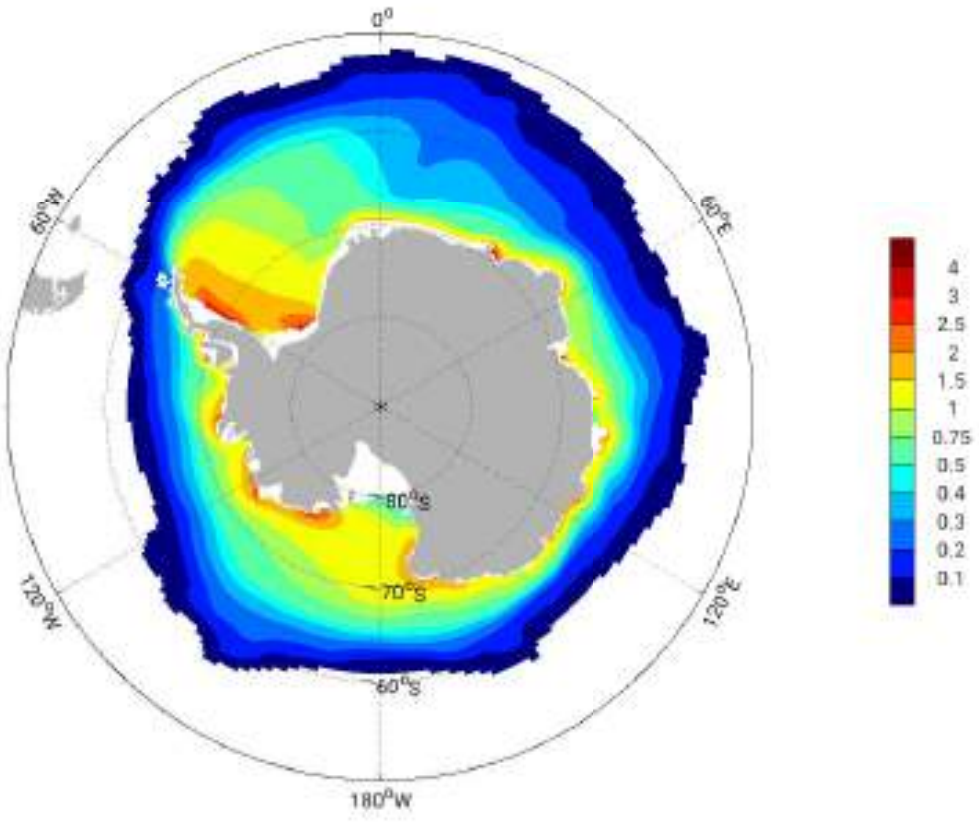

Figure : September Sea Ice Thickness (m): 1992 thru 2017 Mean

Snow Thickness (m): September

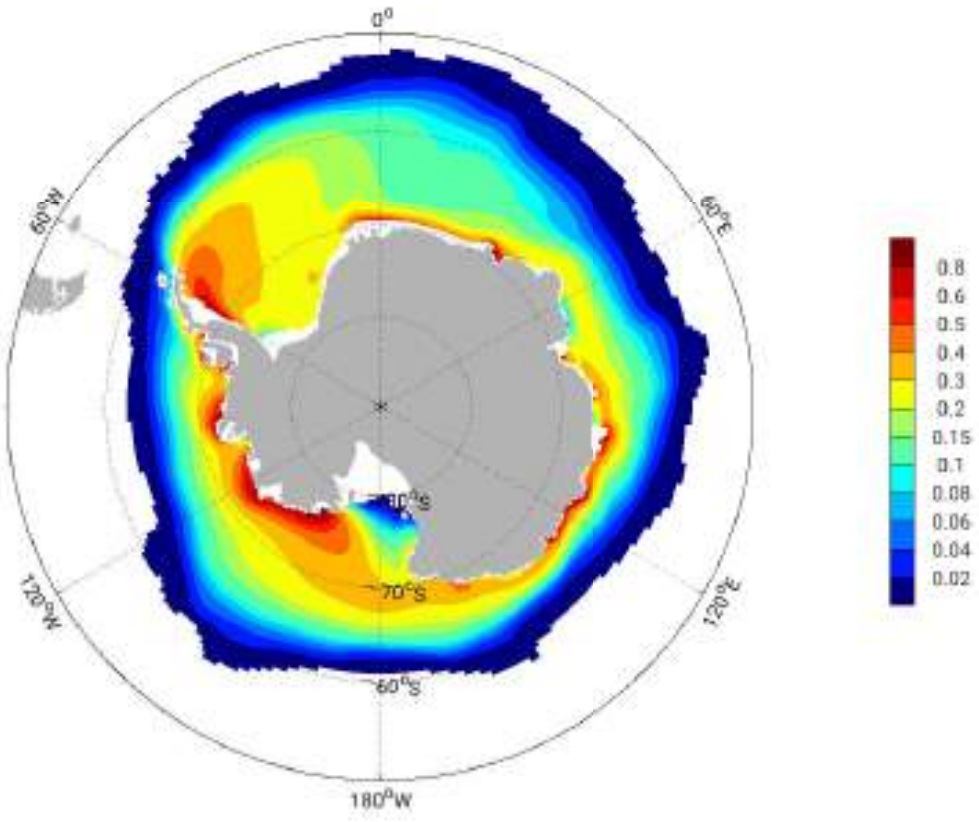

Figure : September Snow Thickness (m): 1992 thru 2017 Mean

Sea Ice+Snow Streamfunction (megaton/s): September

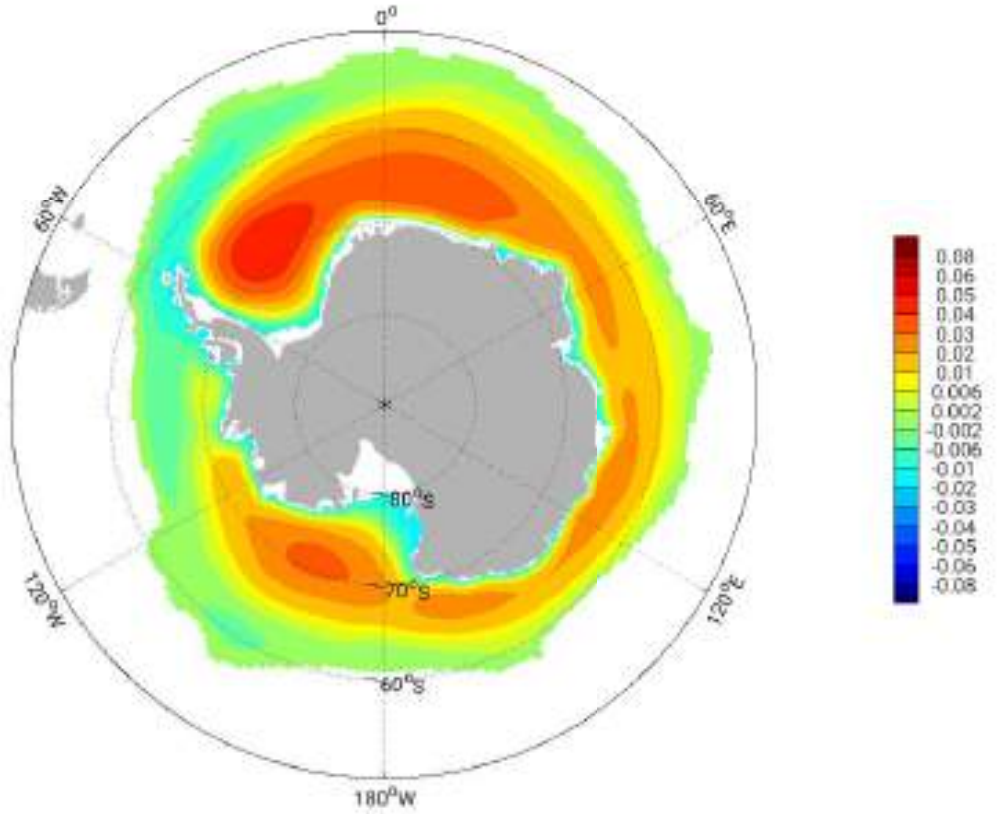

Figure : September Sea Ice+Snow Streamfunction (megaton/s): 1992 thru 2017 Mean

Sea Ice+Snow Convergence (kiloton/s): September

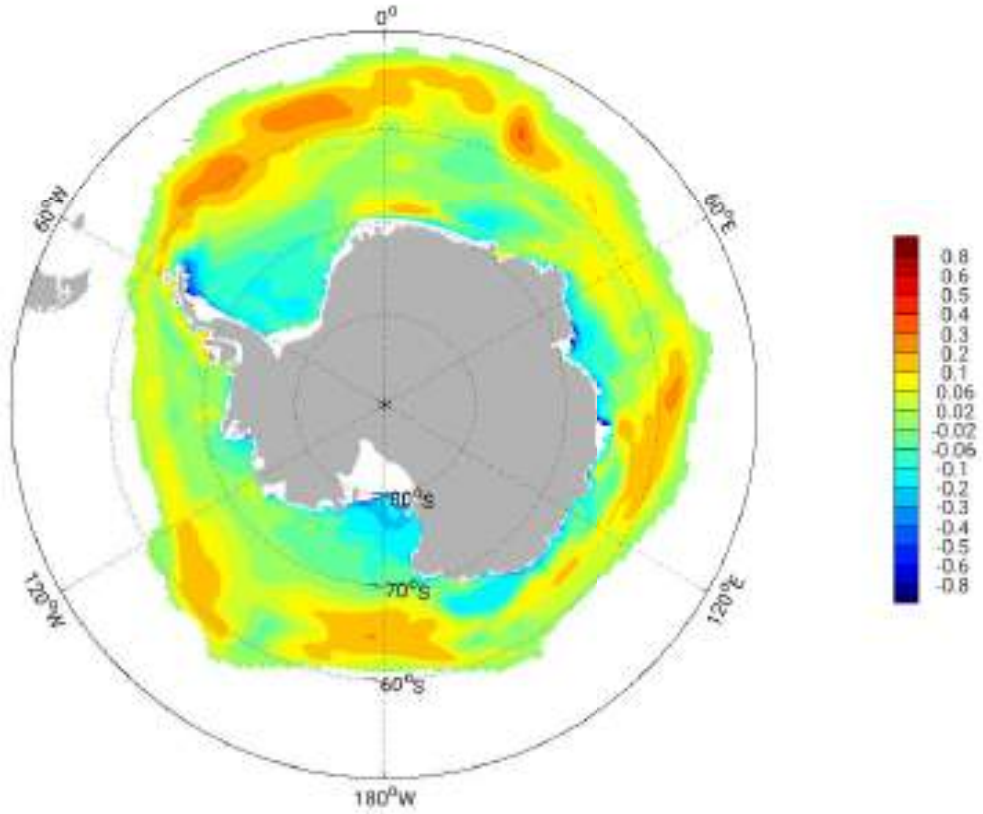

Figure : September Sea Ice+Snow Convergence (kiloton/s): 1992 thru 2017 Mean

control prior uncertainty

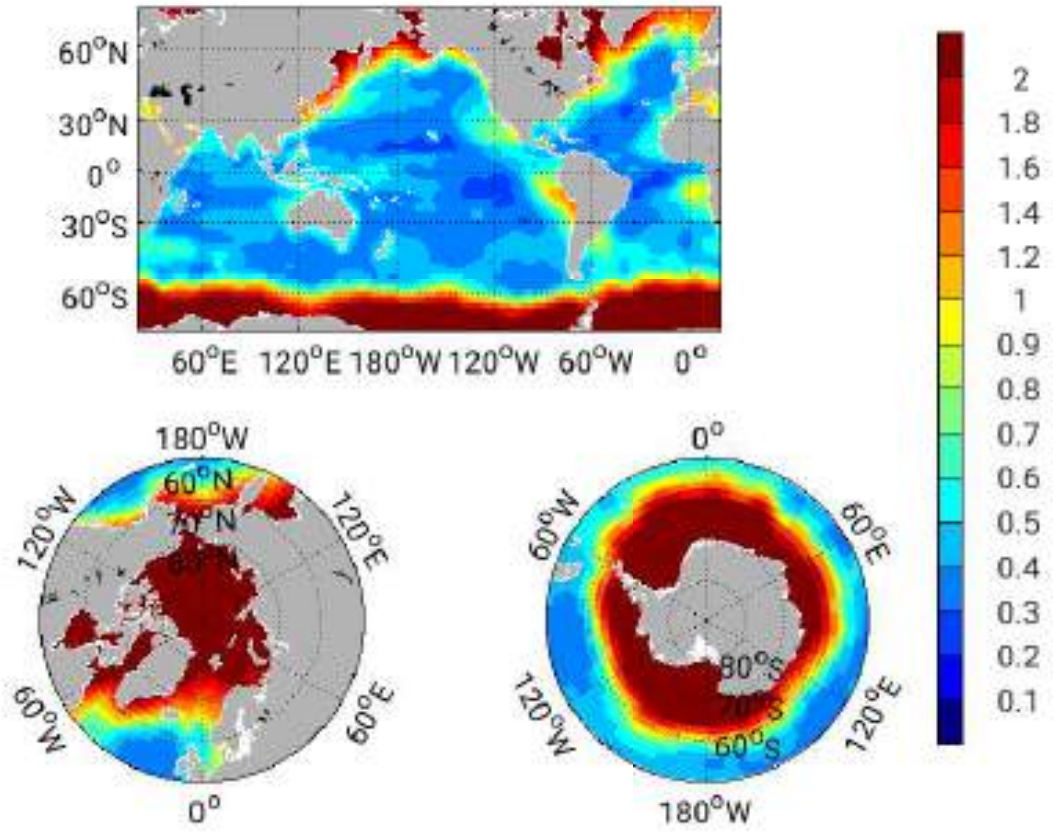

Figure : Prior Uncertainty (K): atemp

rms of control adjustment

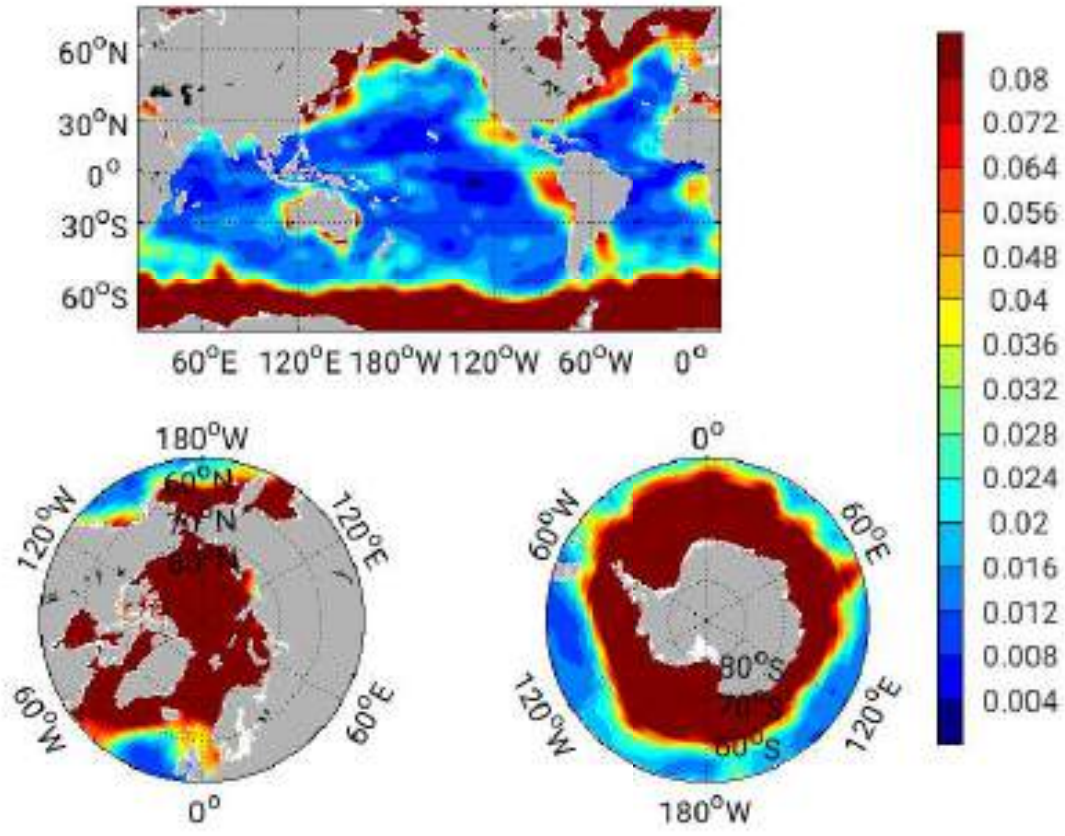

Figure : RMS of Adjustment (K): atemp

std of control adjustment

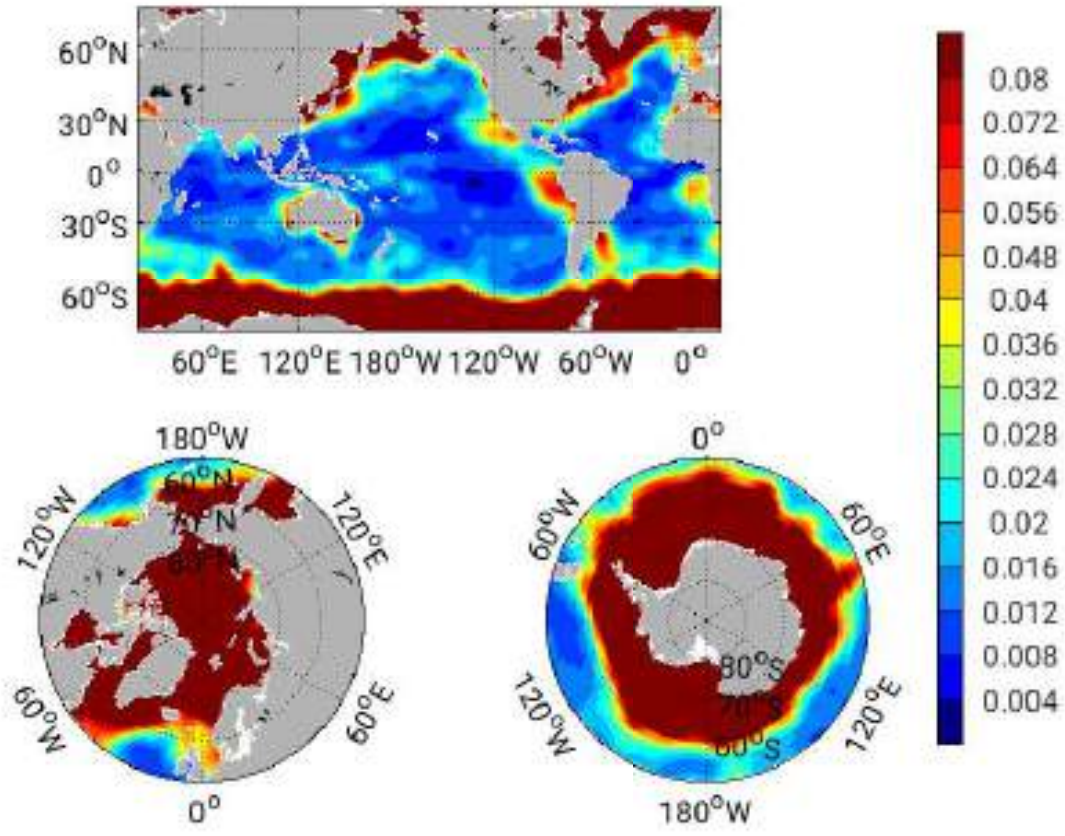

Figure : STD of Adjustment (K): atemp

mean of control adjustment

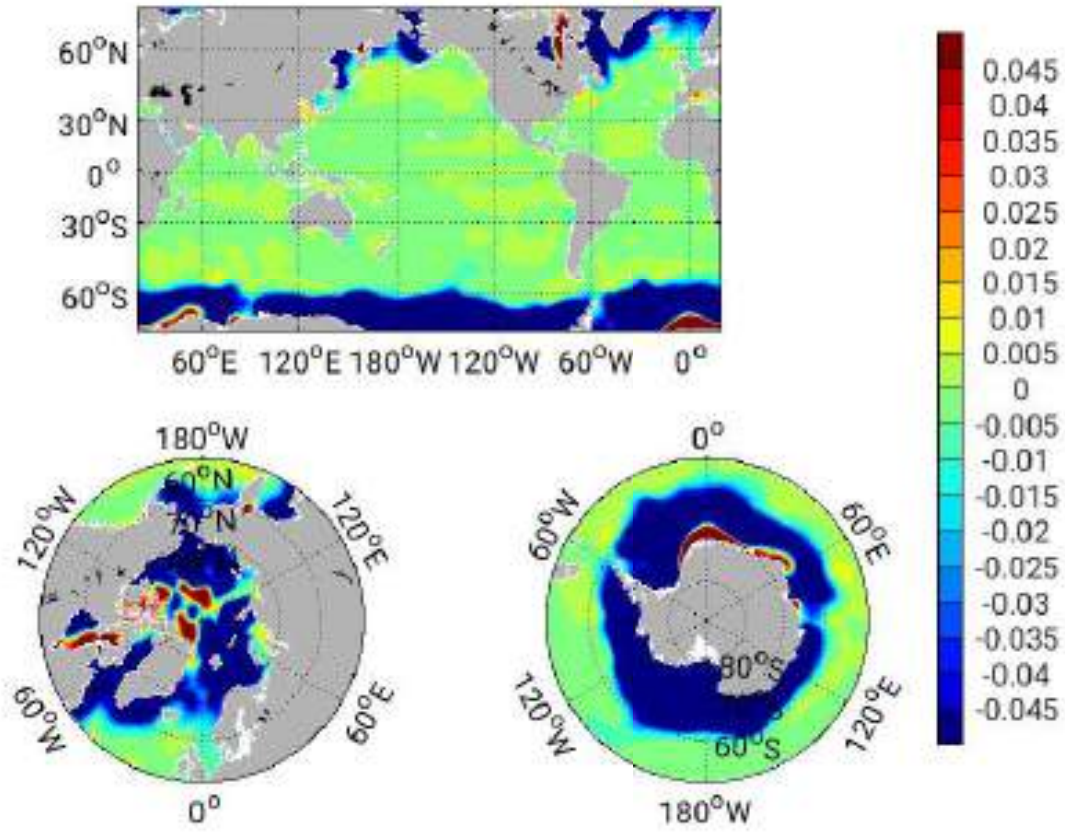

Figure : Mean of Adjustment (K): atemp

control prior uncertainty

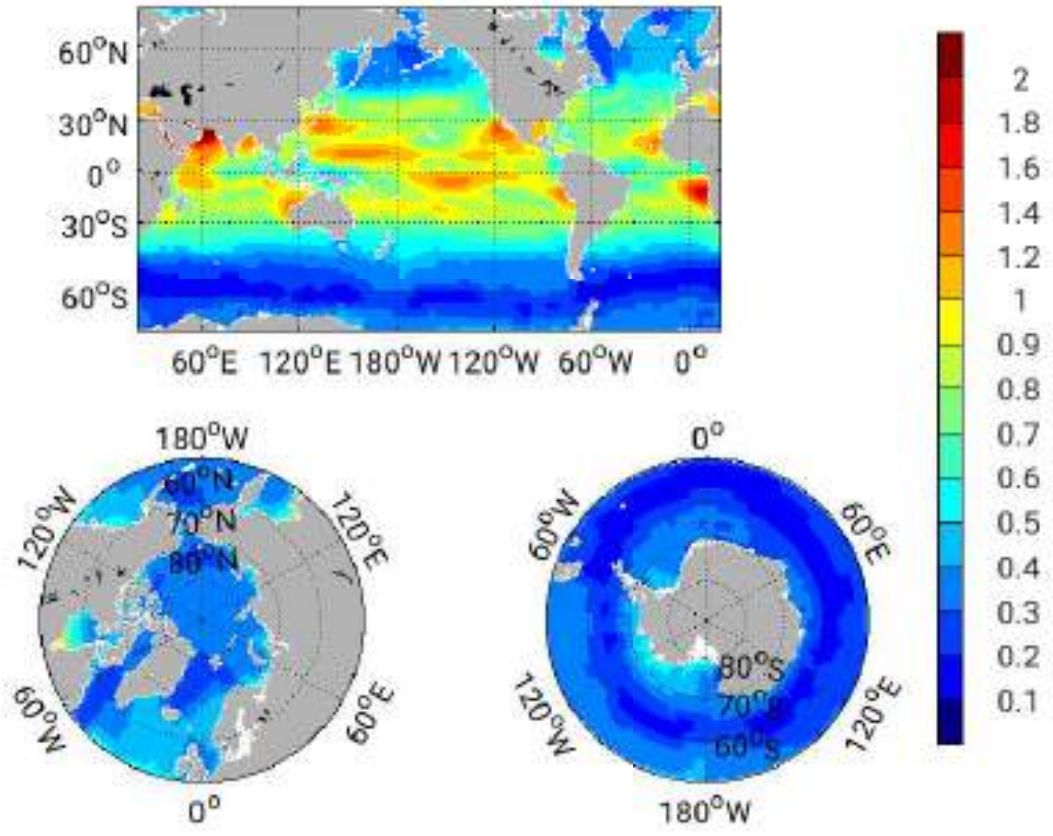

Figure : Prior Uncertainty (g/kg): aqh

rms of control adjustment

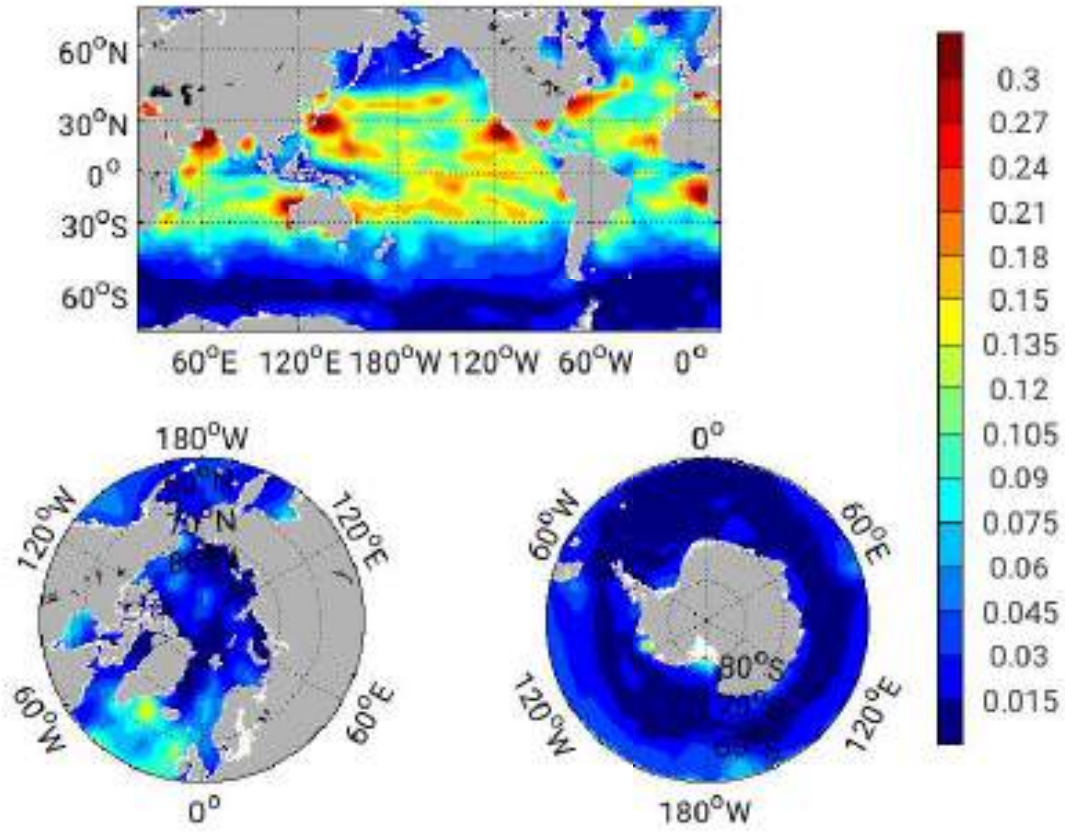

Figure : RMS of Adjustment (g/kg): aqh

std of control adjustment

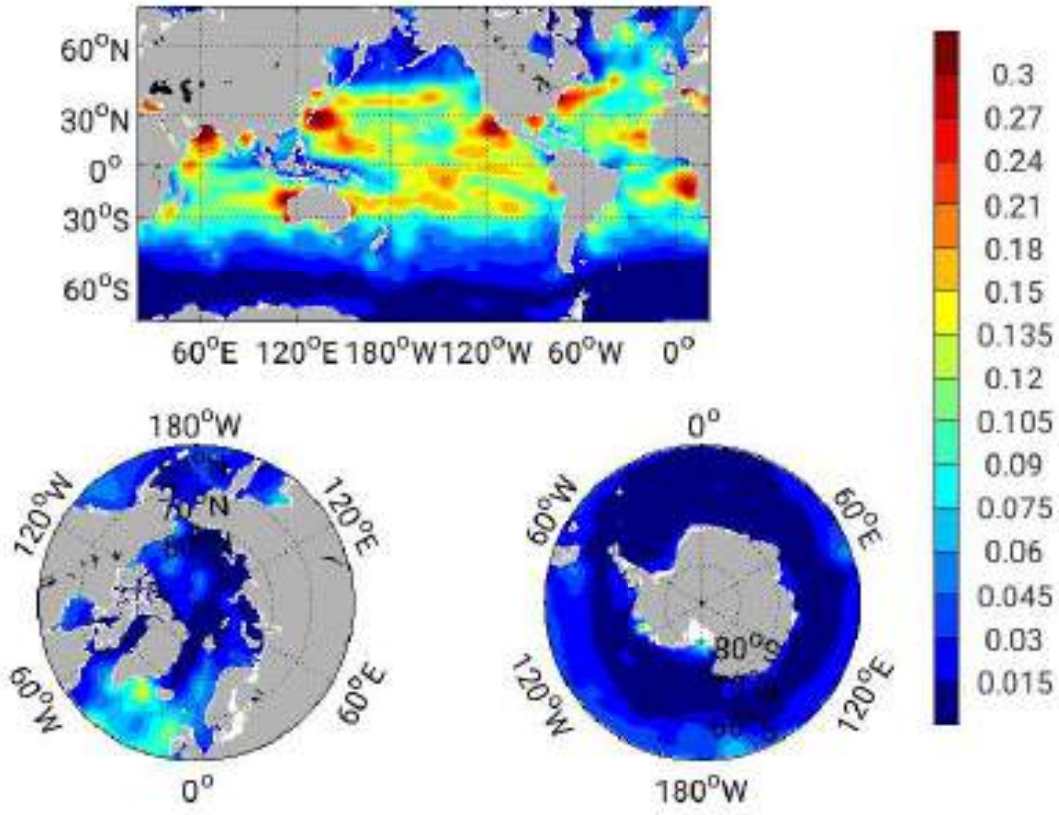

Figure : STD of Adjustment (g/kg): aqh

mean of control adjustment

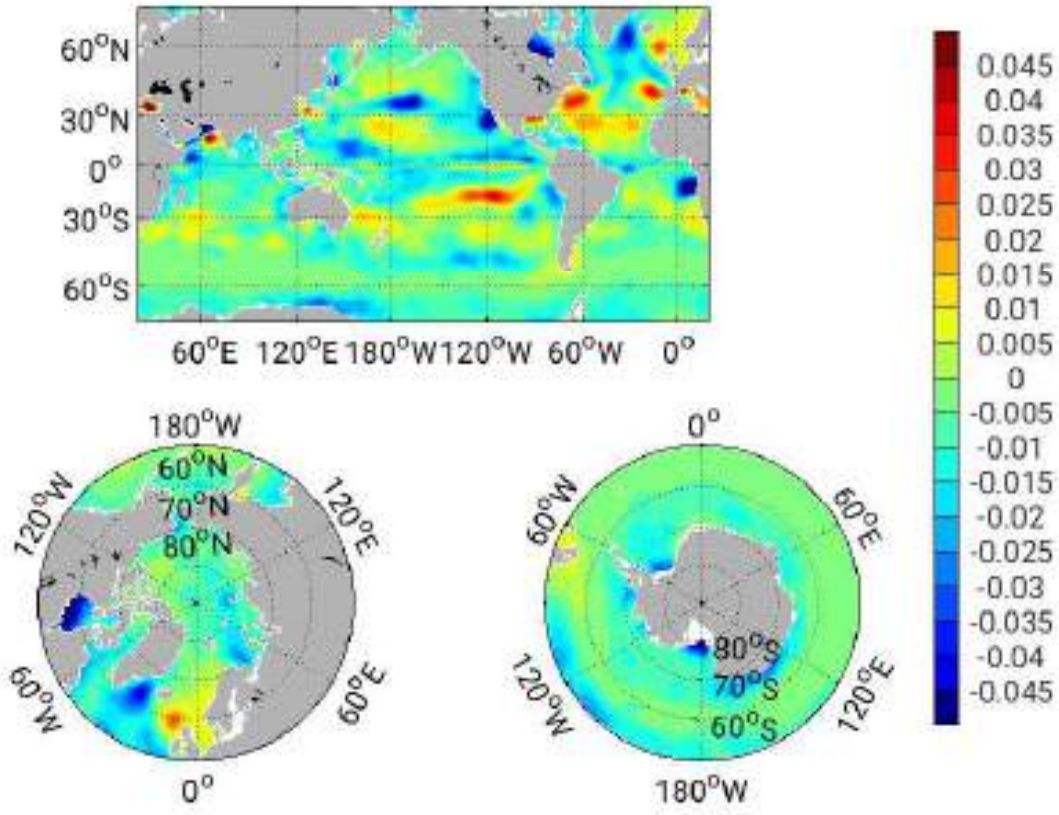

Figure : Mean of Adjustment (g/kg): aqh

control prior uncertainty

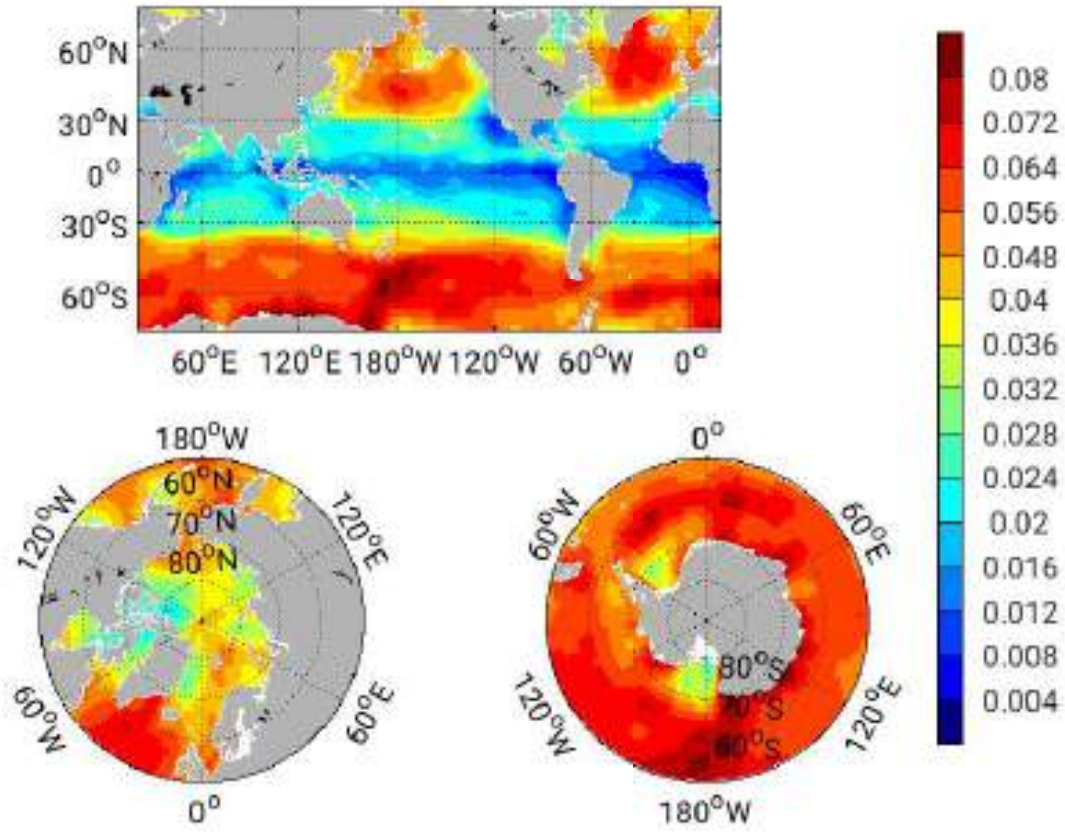

Figure : Prior Uncertainty (N/m2): tauu

rms of control adjustment

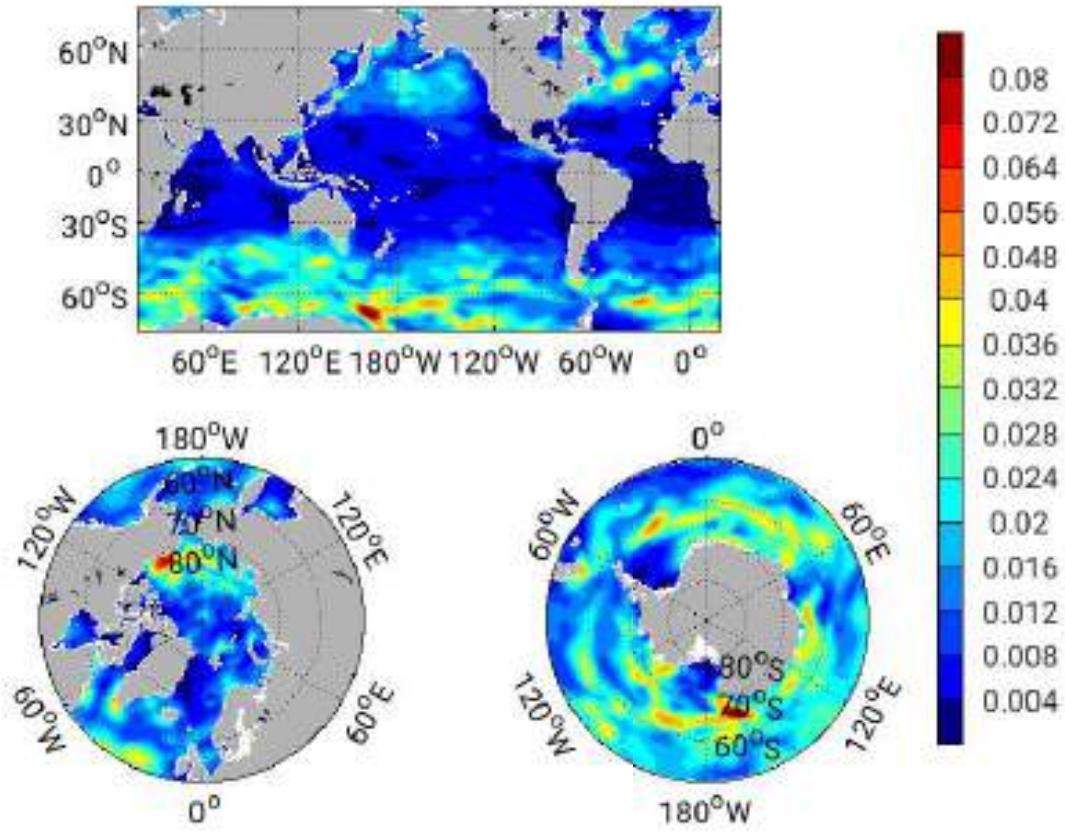

Figure : RMS of Adjustment (N/m2): tauu

std of control adjustment

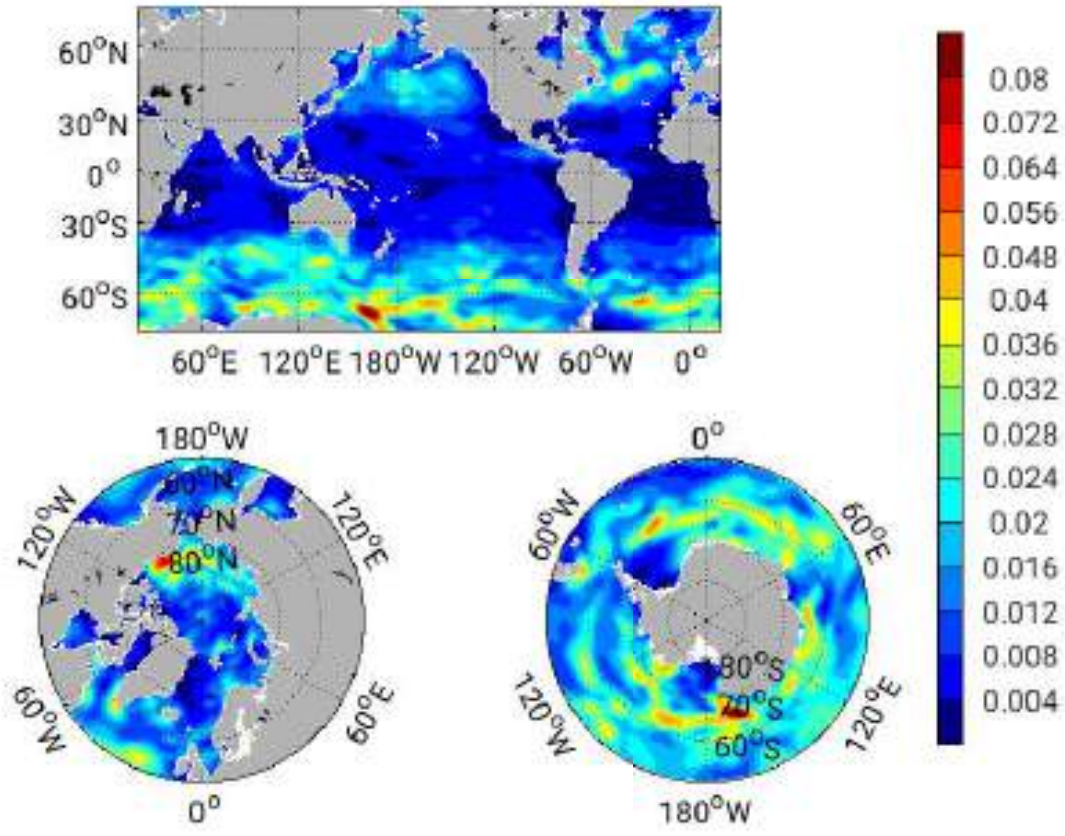

Figure : STD of Adjustment (N/m2): tauu

mean of control adjustment

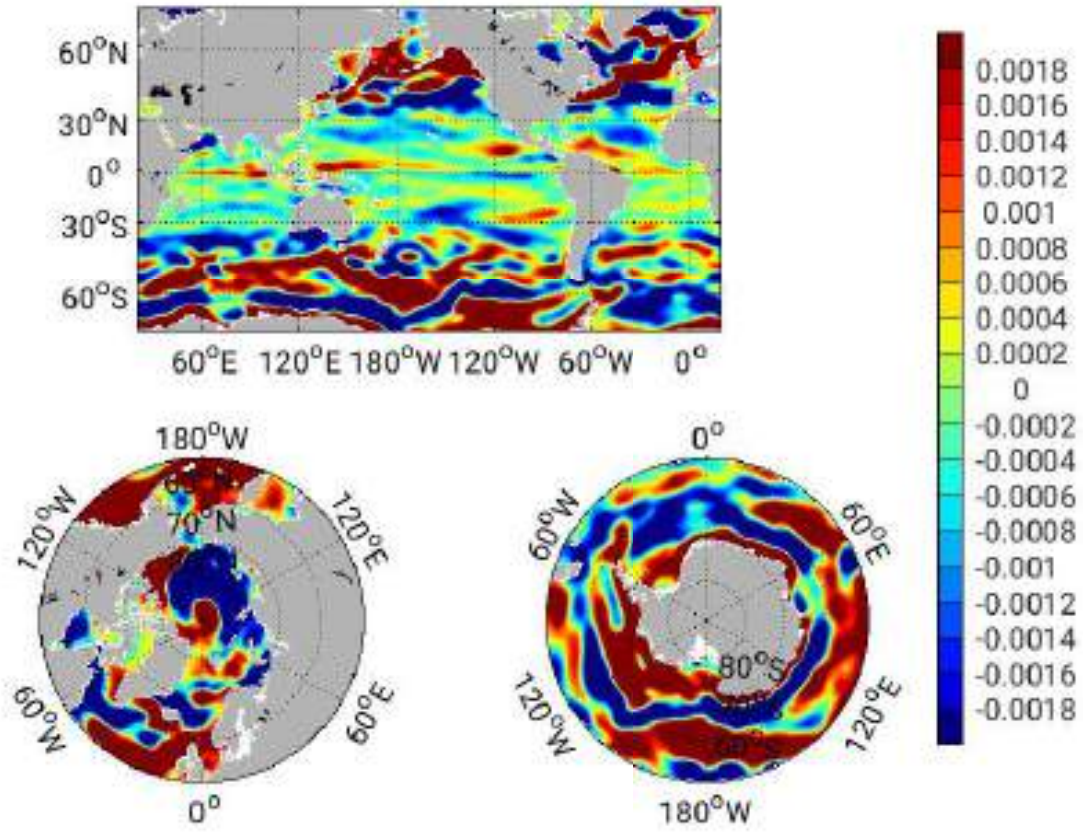

Figure : Mean of Adjustment (N/m2): tauu

control prior uncertainty

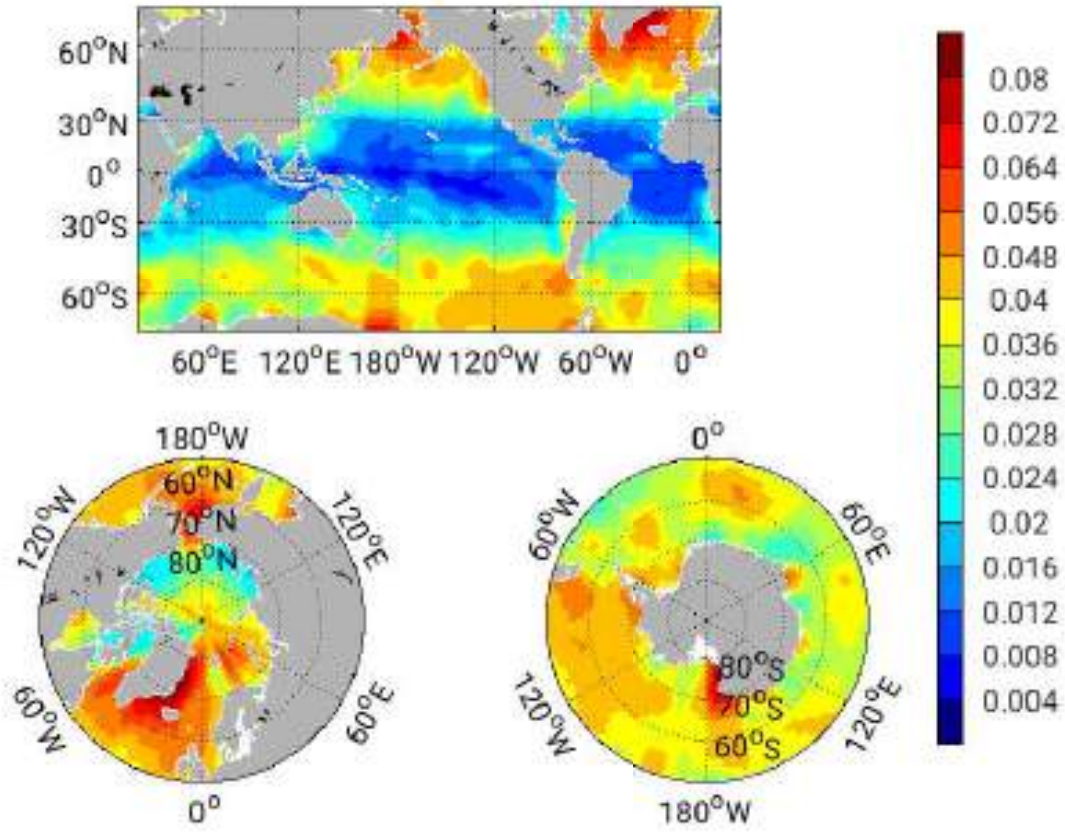

Figure : Prior Uncertainty (N/m2): tauv

rms of control adjustment

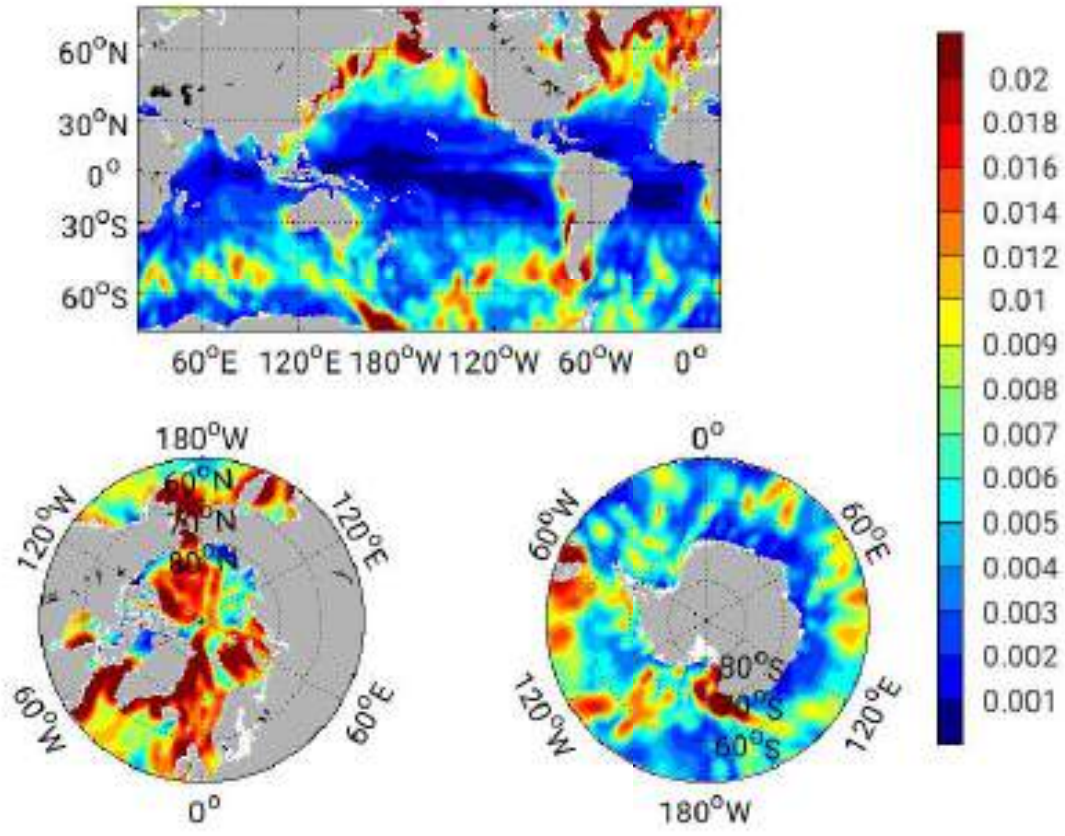

Figure : RMS of Adjustment (N/m2): tauv

std of control adjustment

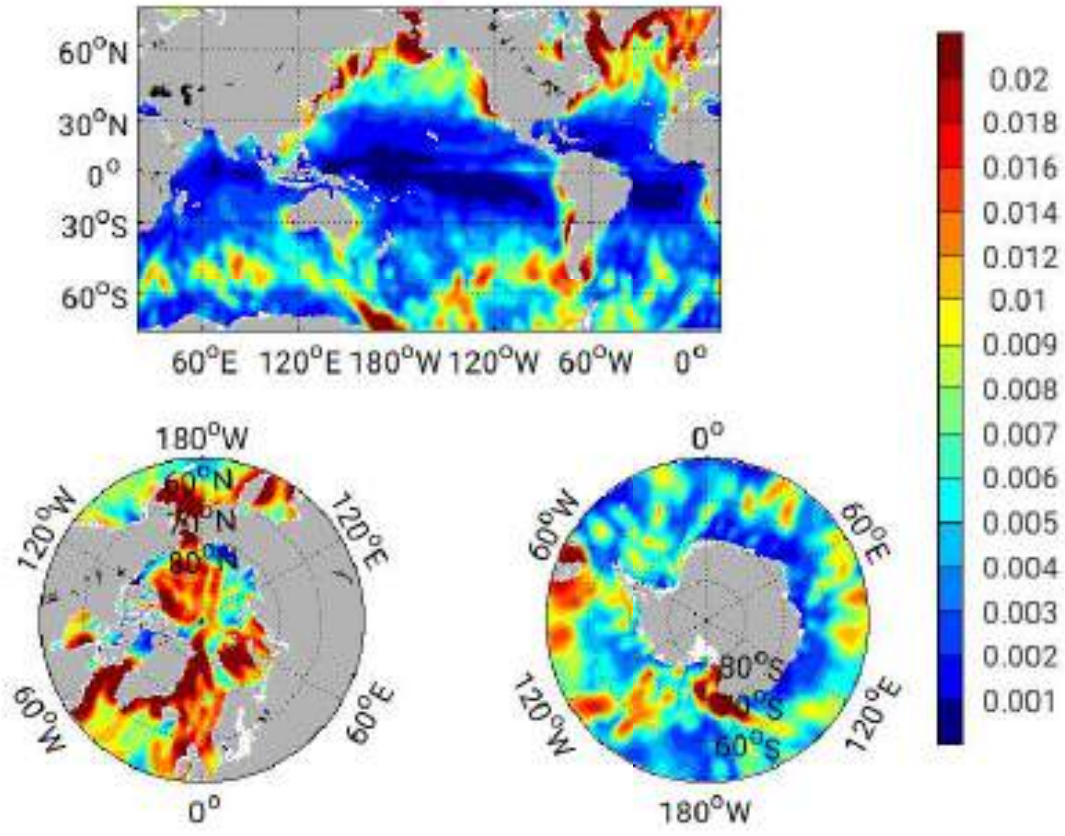

Figure : STD of Adjustment (N/m2): tauv

mean of control adjustment

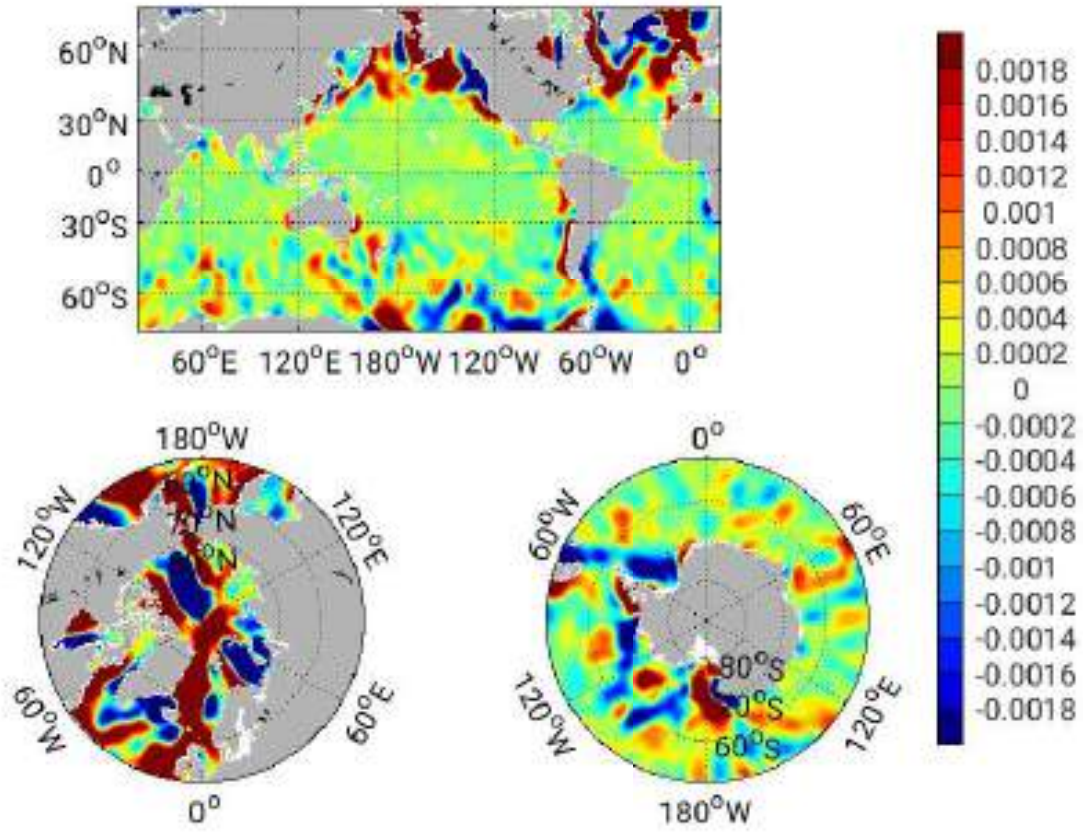

Figure : Mean of Adjustment (N/m2): tauv

control prior uncertainty

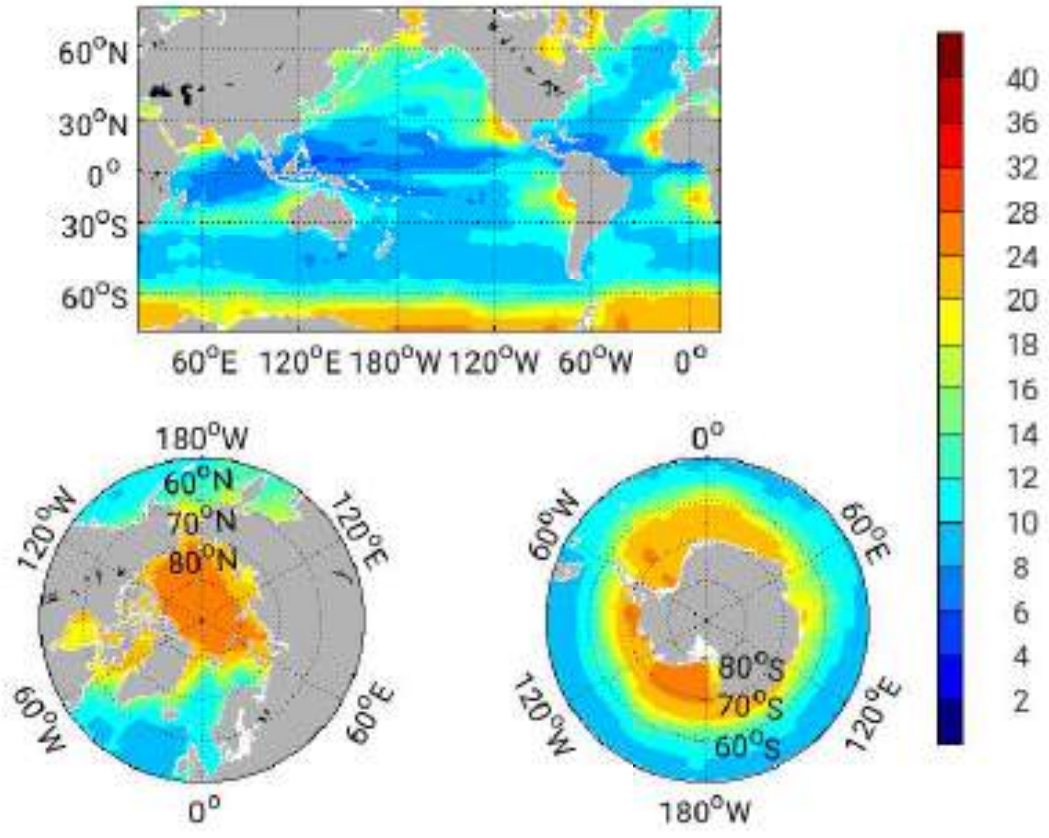

Figure : Prior Uncertainty (W/m2): lwdown

rms of control adjustment

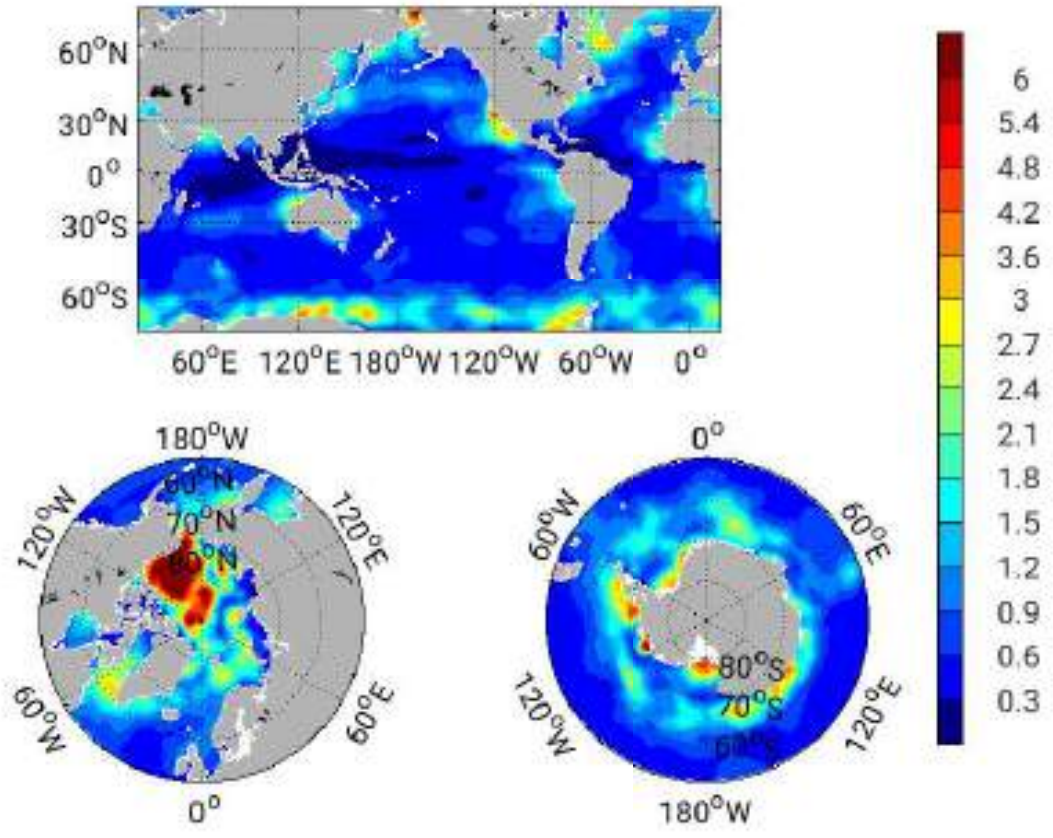

Figure : RMS of Adjustment (W/m2): lwdown

std of control adjustment

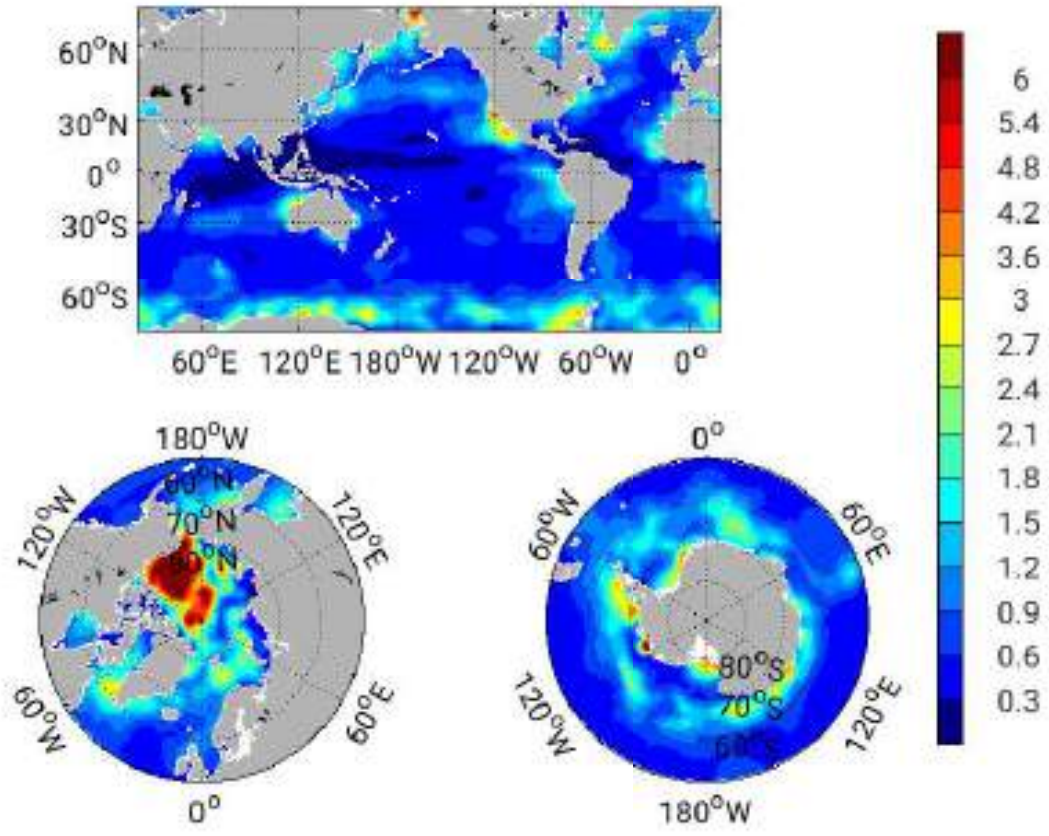

Figure : STD of Adjustment (W/m2): lwdown

mean of control adjustment

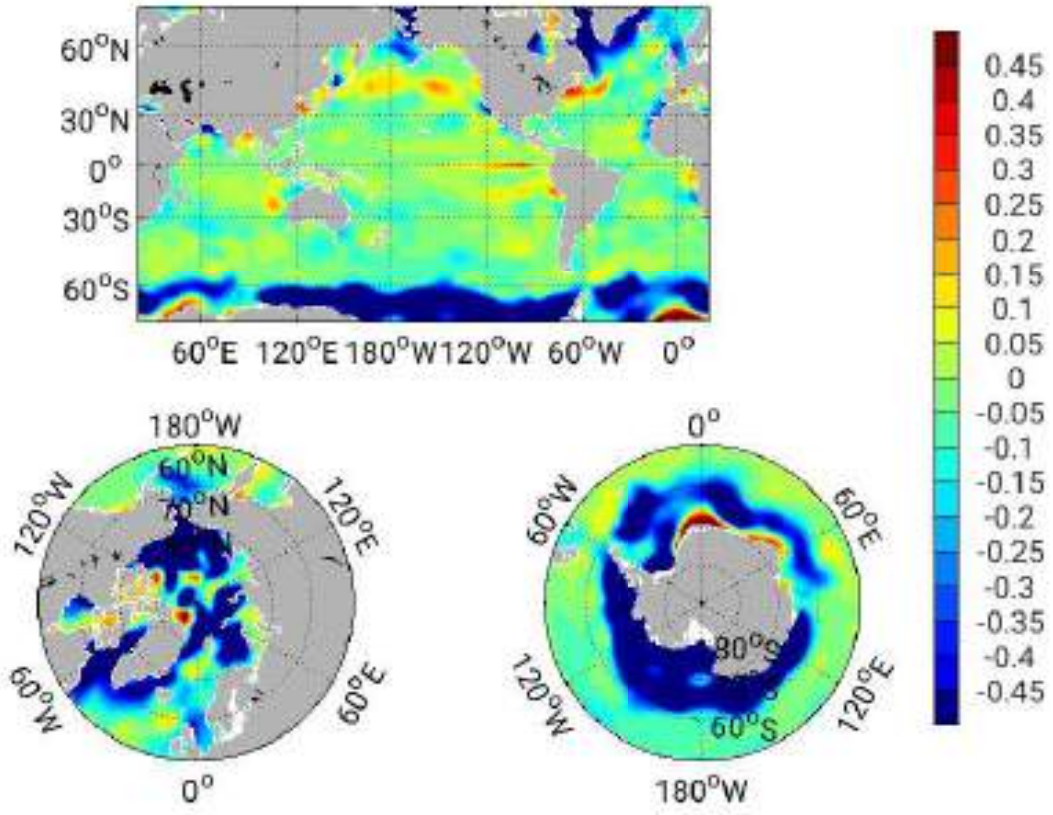

Figure : Mean of Adjustment (W/m2): lwdown

control prior uncertainty

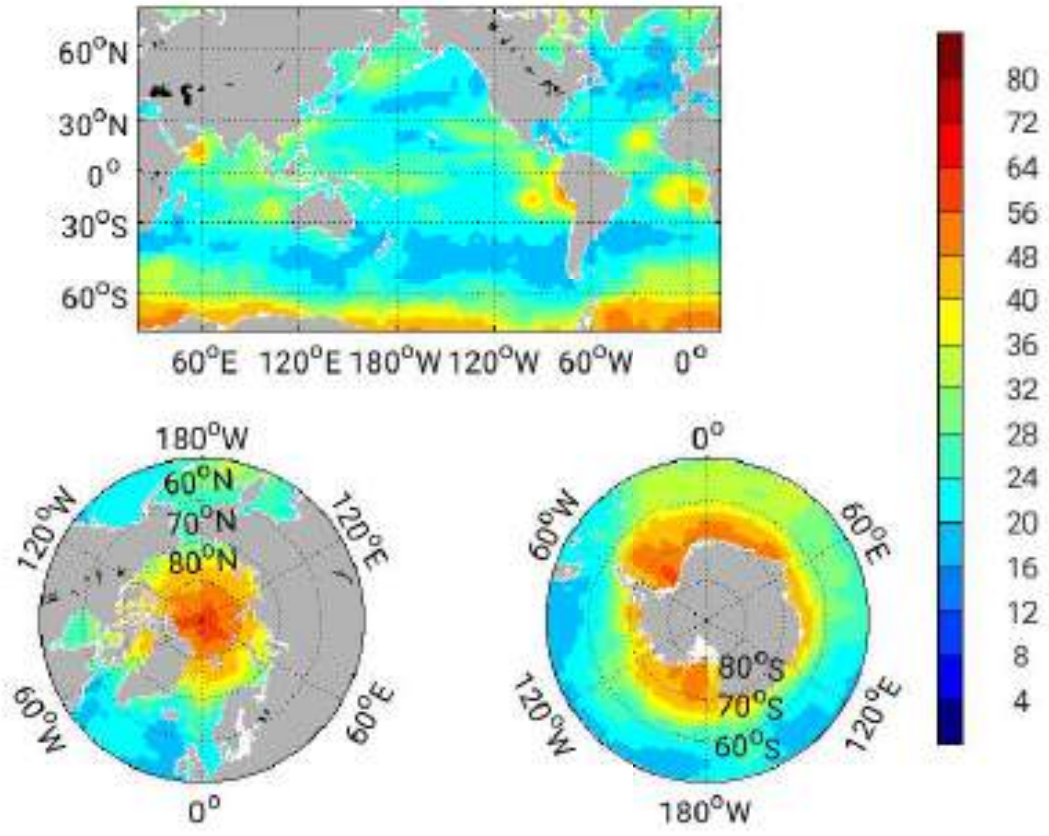

Figure : Prior Uncertainty (W/m2): swdown

rms of control adjustment

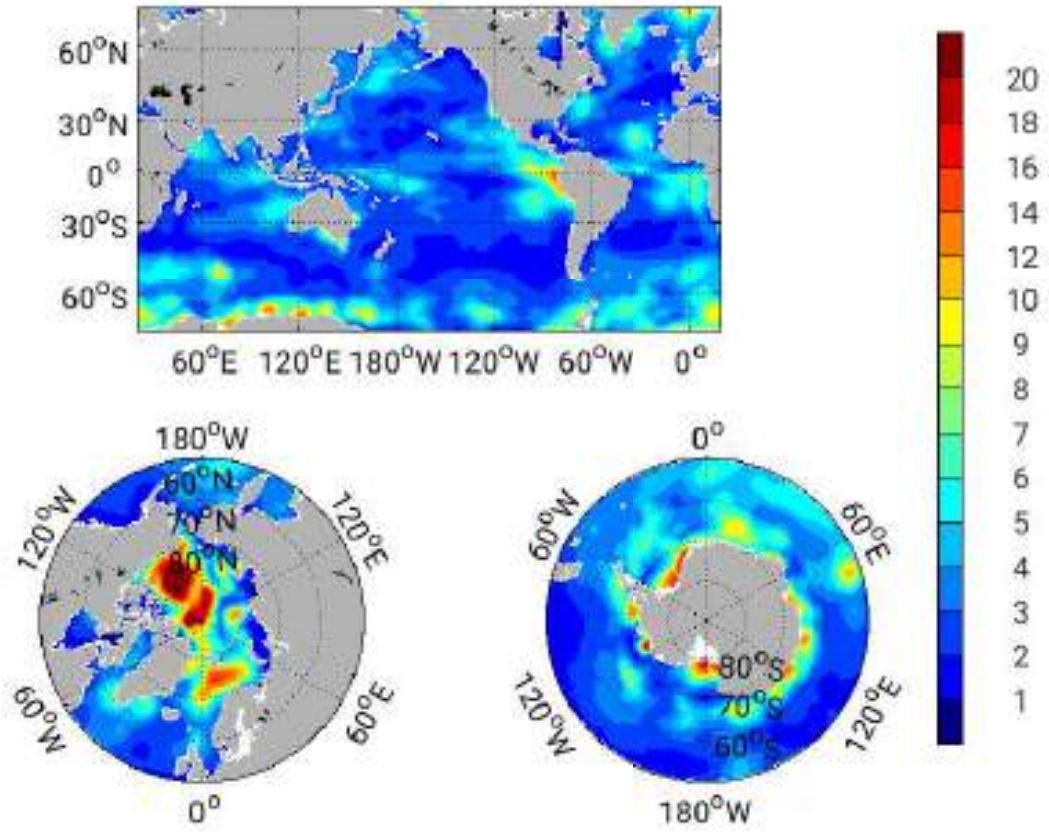

Figure : RMS of Adjustment (W/m2): swdown

std of control adjustment

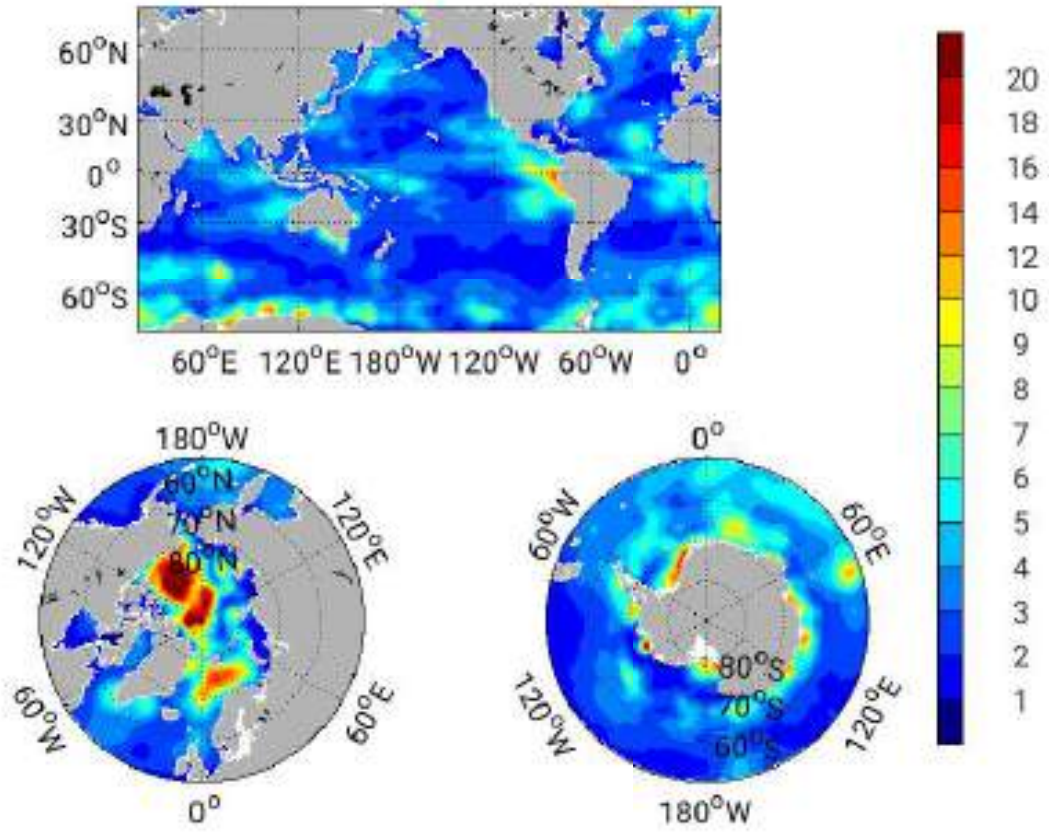

Figure : STD of Adjustment (W/m2): swdown

mean of control adjustment

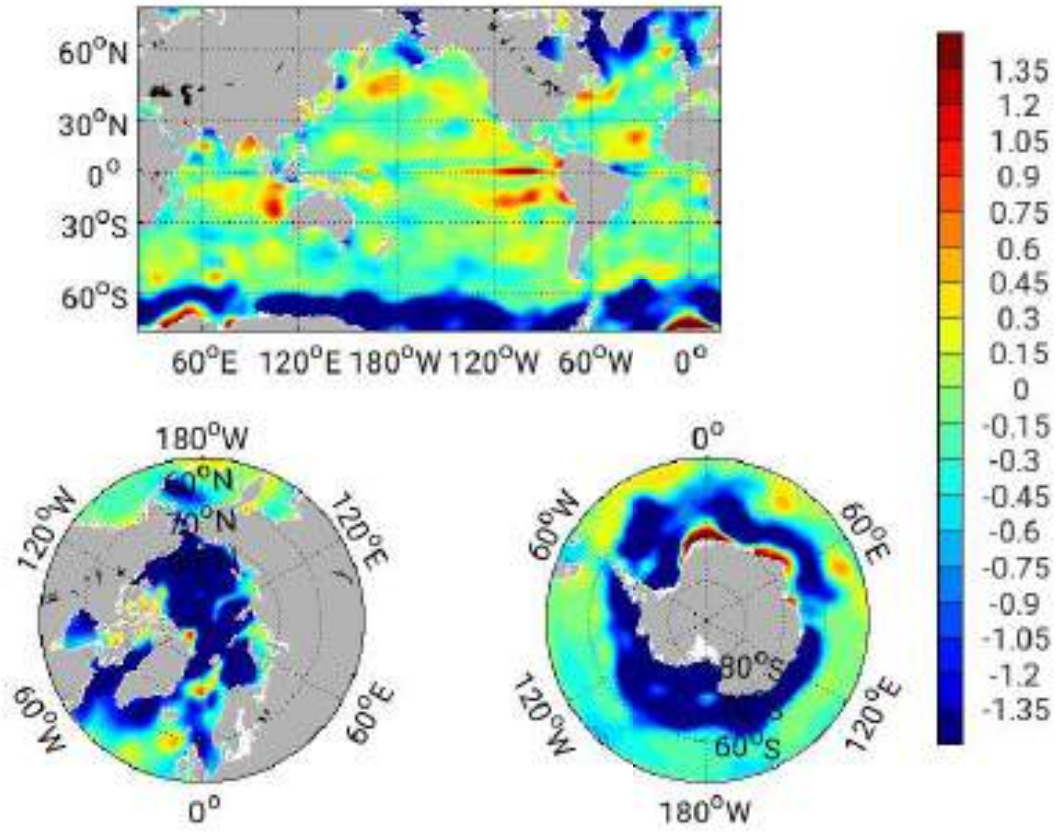

Figure : Mean of Adjustment (W/m2): swdown