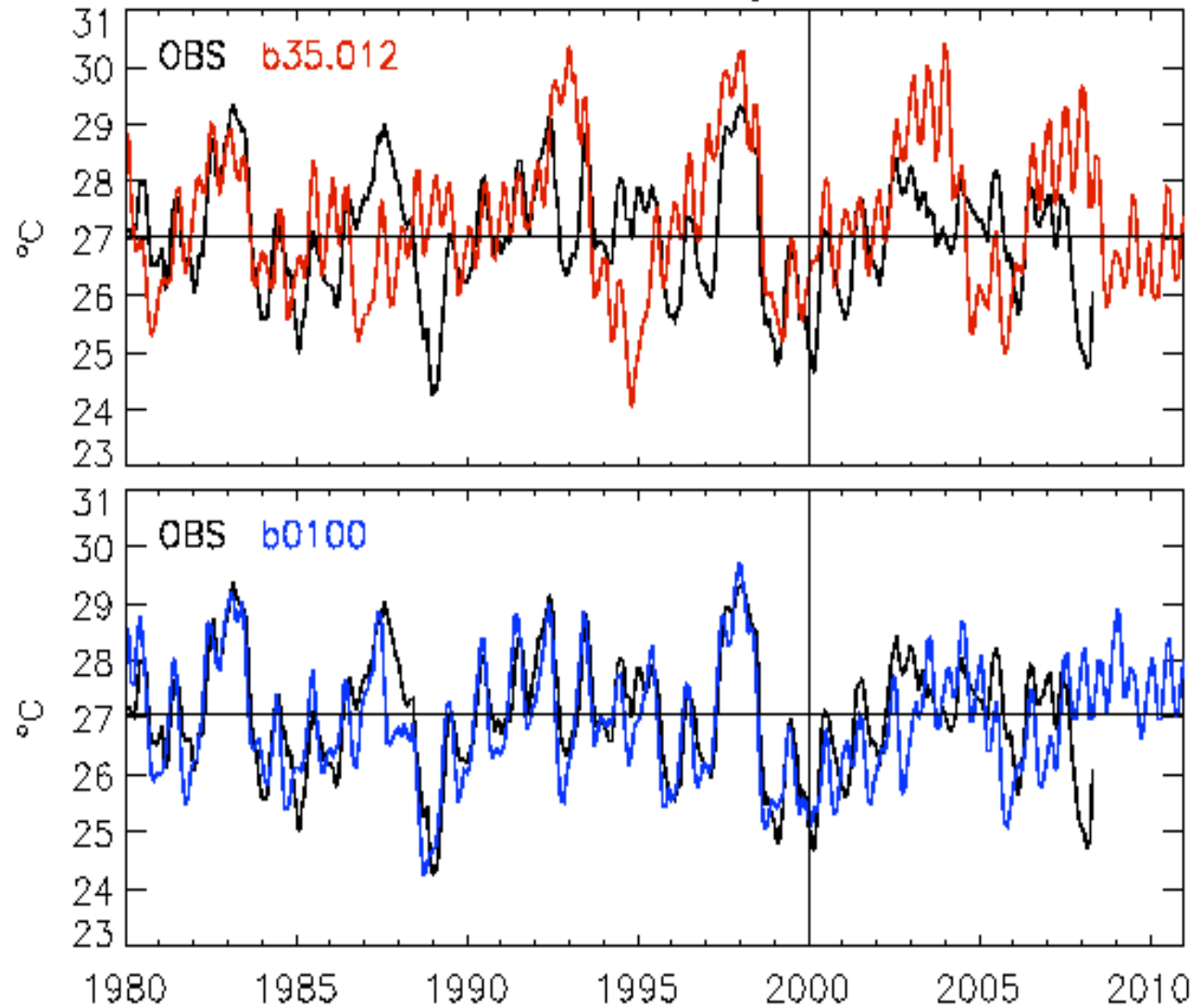


## ***Short-term Simulations/Forecasts***

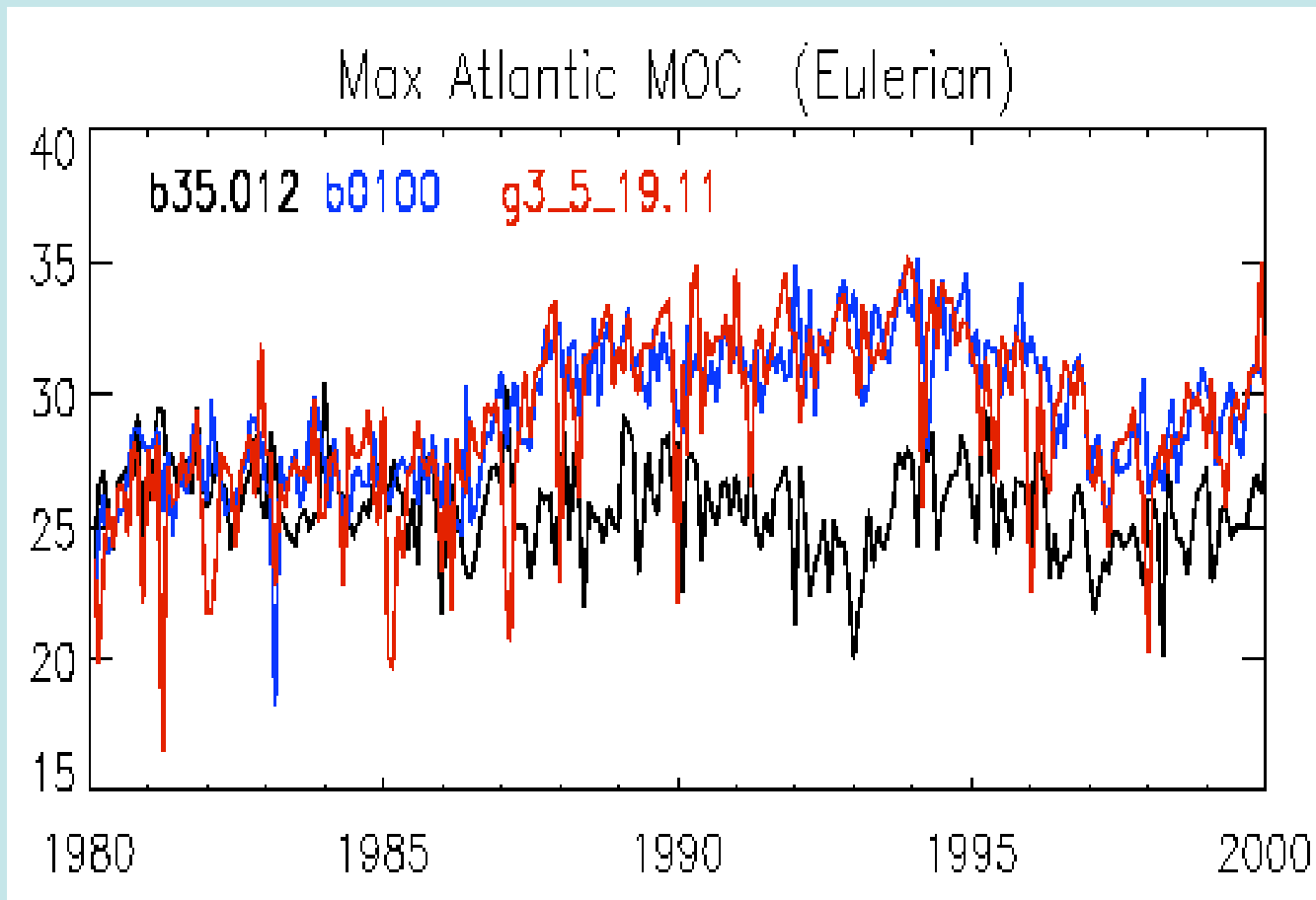
- **Use higher 0.5° resolution atmosphere and land.**
- **Run from 1980 – 2000 using observed forcing, and then from 2000 – 2030 using the A1B scenario.**
- **Have just interpolated 1980 atmosphere and land ICs from 20<sup>th</sup> Century run using ~2° resolution.**
- **Do need to initialize the ocean for these runs?**
- **Idea is to improve near-term projections over USA.**

Nino3.4 Monthly SST



b35.012 is 20<sup>th</sup> Century run using CCSM3.5

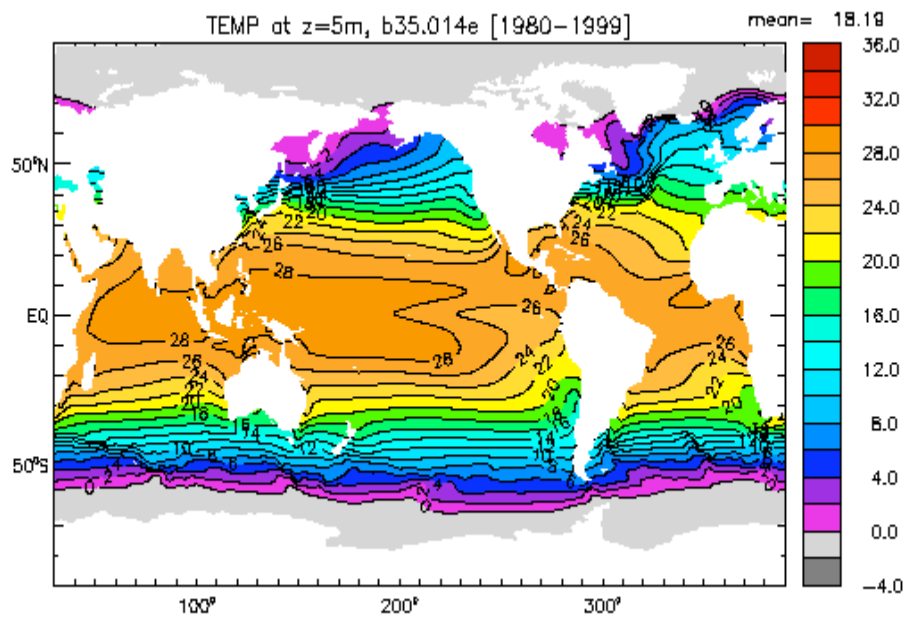
b0100 is a run nudged to a run of 3.5 ocean and sea ice forced by atmospheric observations.



b35.012 is a CCSM3.5 20<sup>th</sup> Century run

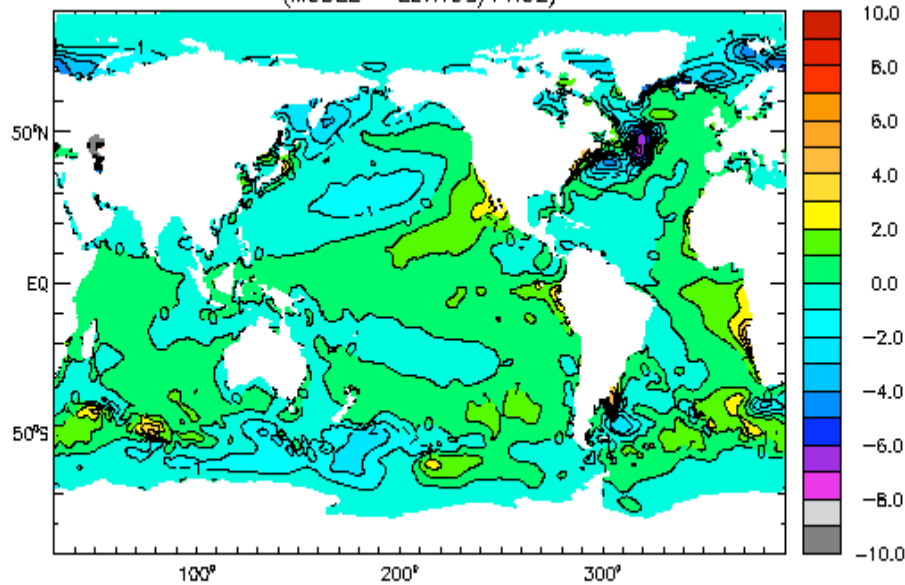
G3\_5\_19.11 is an ocean and ice run forced by atmospheric obs

b0100 is a CCSM3.5 run nudged to g3\_5\_19.11 solution



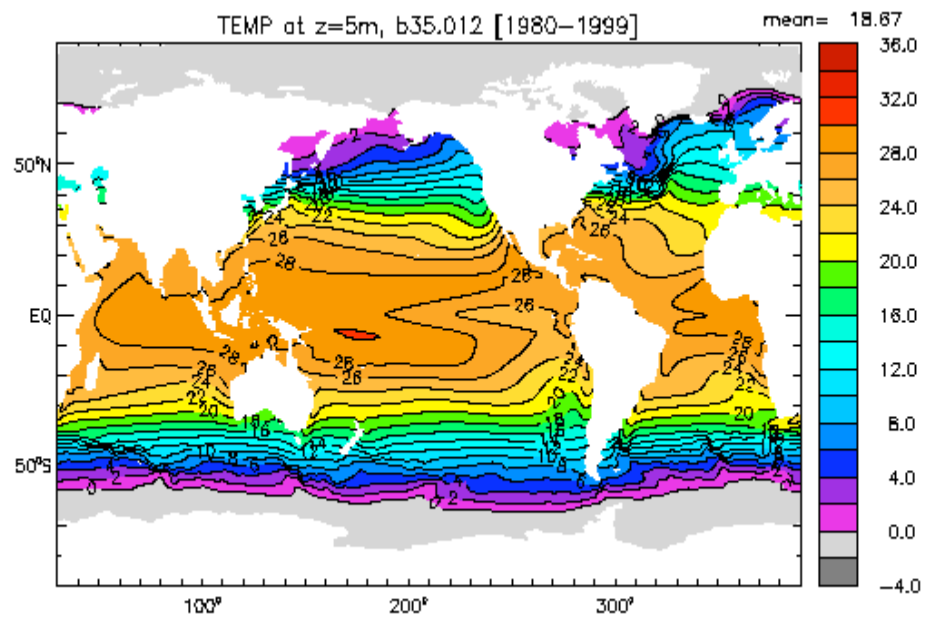
$\langle -1.80e+00 \text{ to } 2.99e+01 \text{ by } 2.00 \text{ }^\circ\text{C} \rangle$   
(MODEL - LEVITUS/PHC2)

mean= 0.03



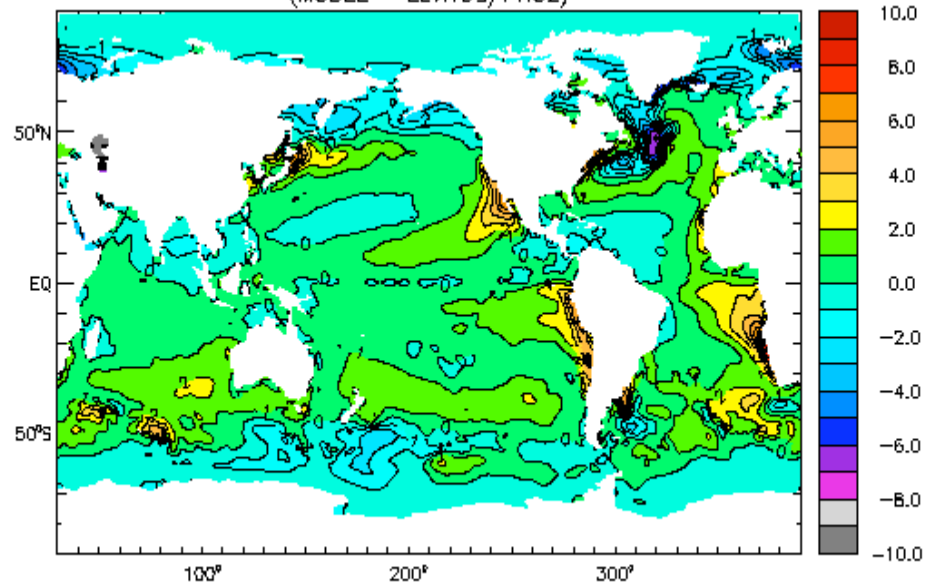
$\langle -7.23e+00 \text{ to } 5.51e+00 \text{ by } 1.00 \text{ }^\circ\text{C} \rangle$

0.5° atmosphere/land



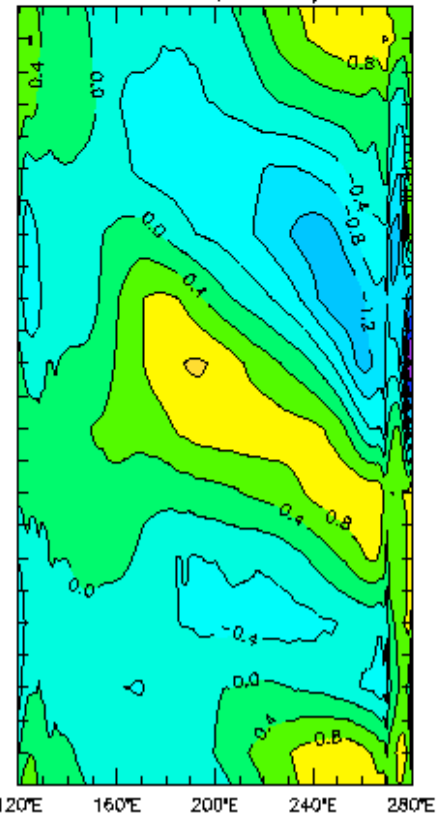
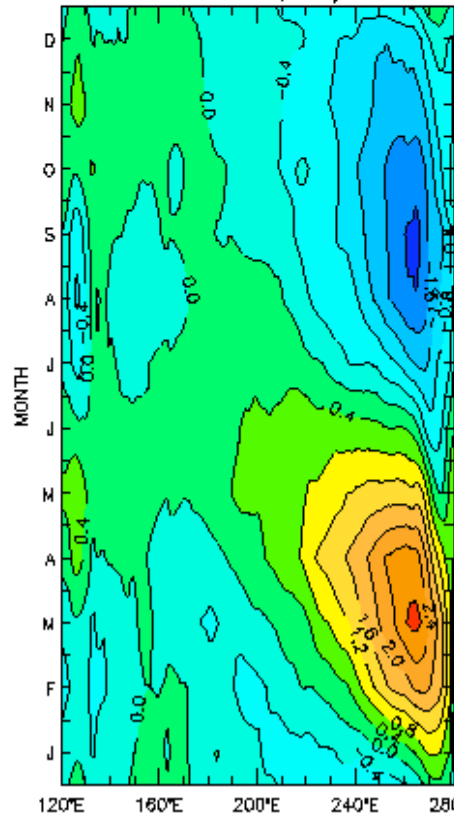
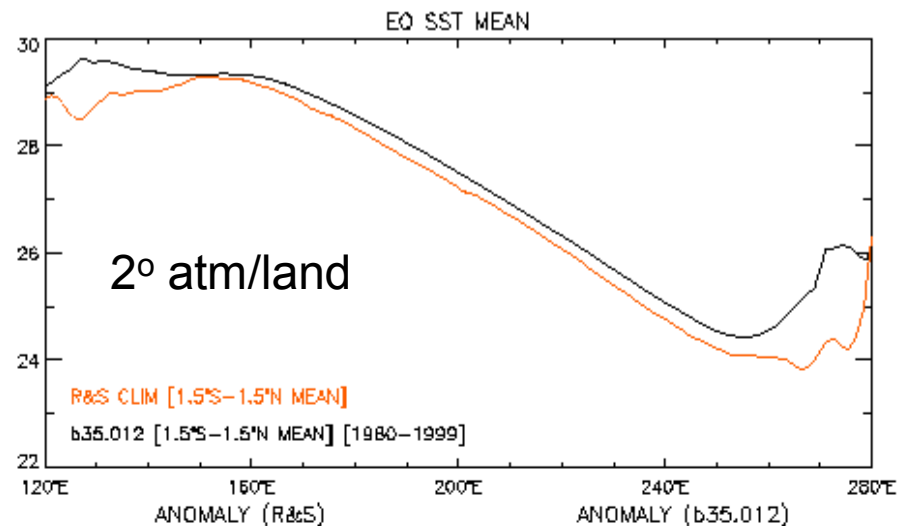
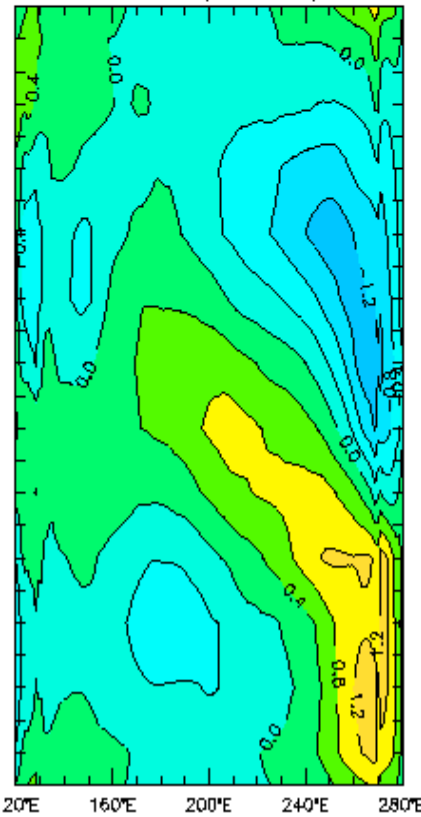
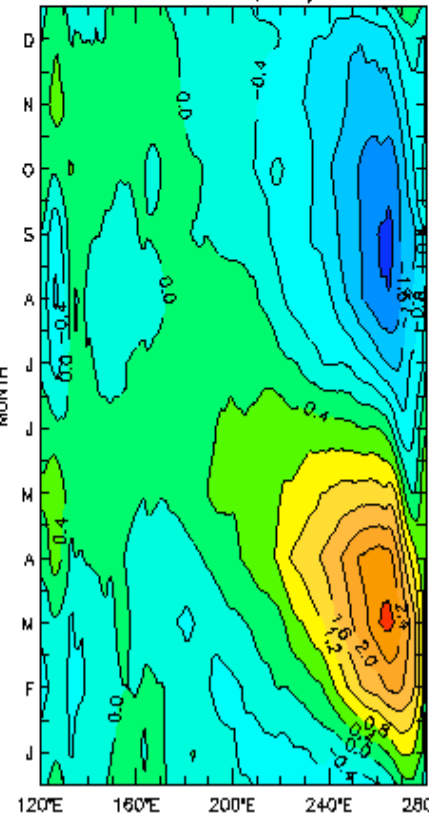
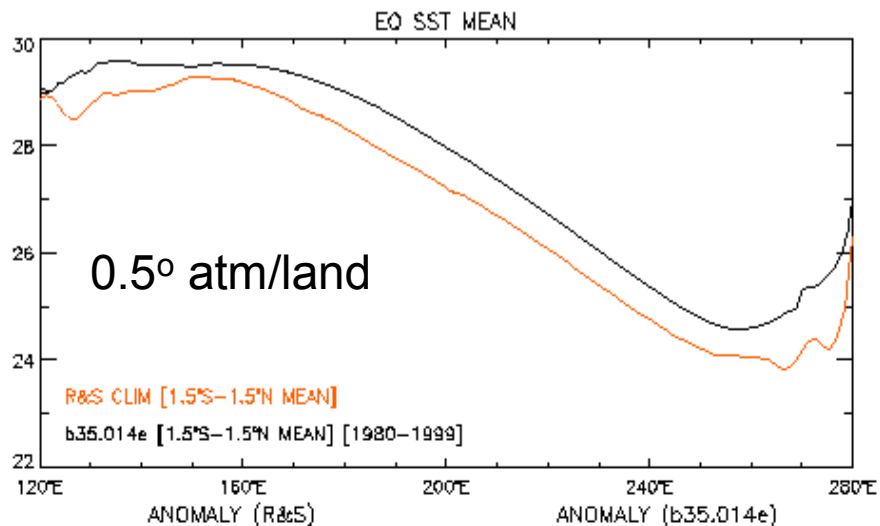
$\langle -1.80e+00 \text{ to } 3.01e+01 \text{ by } 2.00 \text{ }^\circ\text{C} \rangle$   
(MODEL - LEVITUS/PHC2)

mean= 0.50

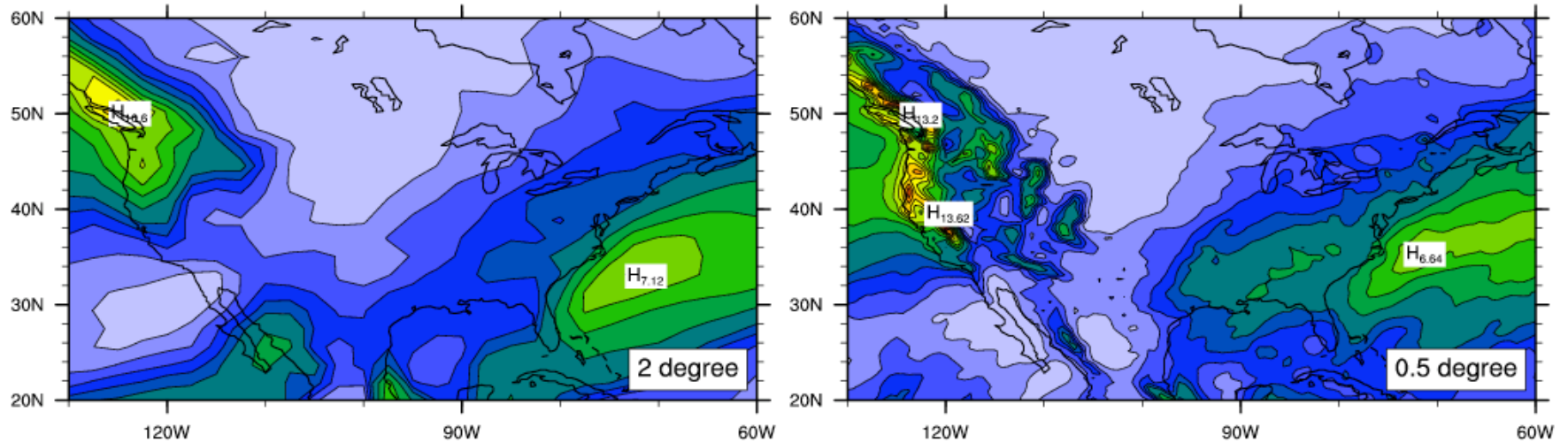


$\langle -7.13e+00 \text{ to } 9.22e+00 \text{ by } 1.00 \text{ }^\circ\text{C} \rangle$

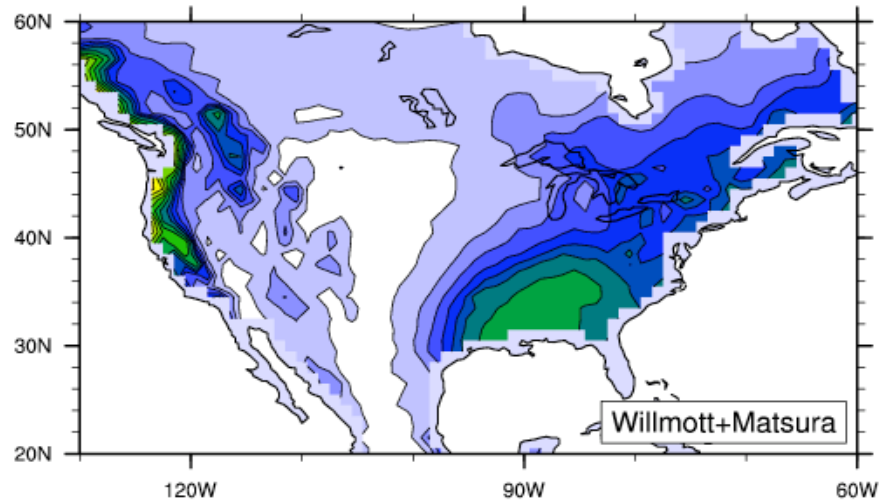
2° atmosphere/land



# DJF Total Precipitation (mm/day)



1995 –  
1999  
average.



Improved  
SE USA  
rainfall.

