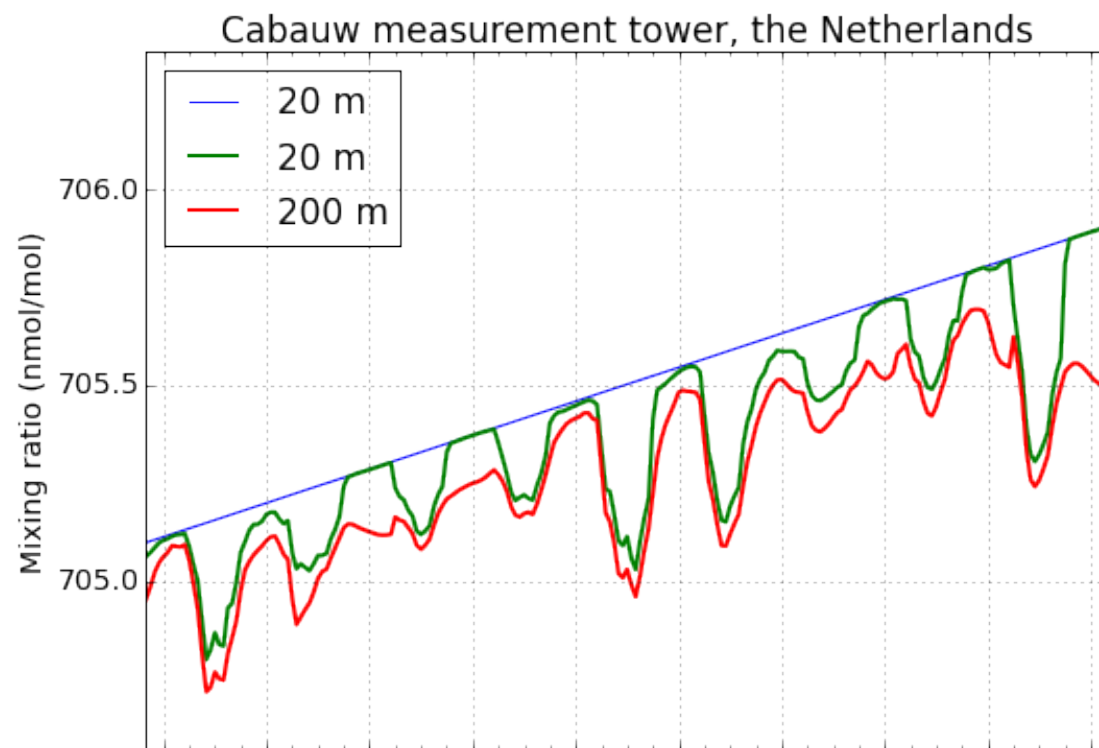


AoA inter-comparison results, TM5 and TM5- EC-Earth

Maarten Krol, Lars Killaars (RUG)



AoA Inter-comparison

Model experiment description paper

Age of Air as a diagnostic for transport time-scales in global models

Maarten Krol^{1,2,3}, Marco de Bruine², Lars Killaars⁴, Huug Ouwersloot⁵, Andrea Pozzer⁵, Yi Yin^{6,*}, Frederic Chevallier⁶, Philippe Bousquet⁶, Prabir Patra⁷, Dmitry Belikov⁸, Shamil Maksyutov⁹, Sandip Dhomse¹⁰, Wuhu Feng¹¹, and Martyn P. Chipperfield^{10,11}

Linear growing BC

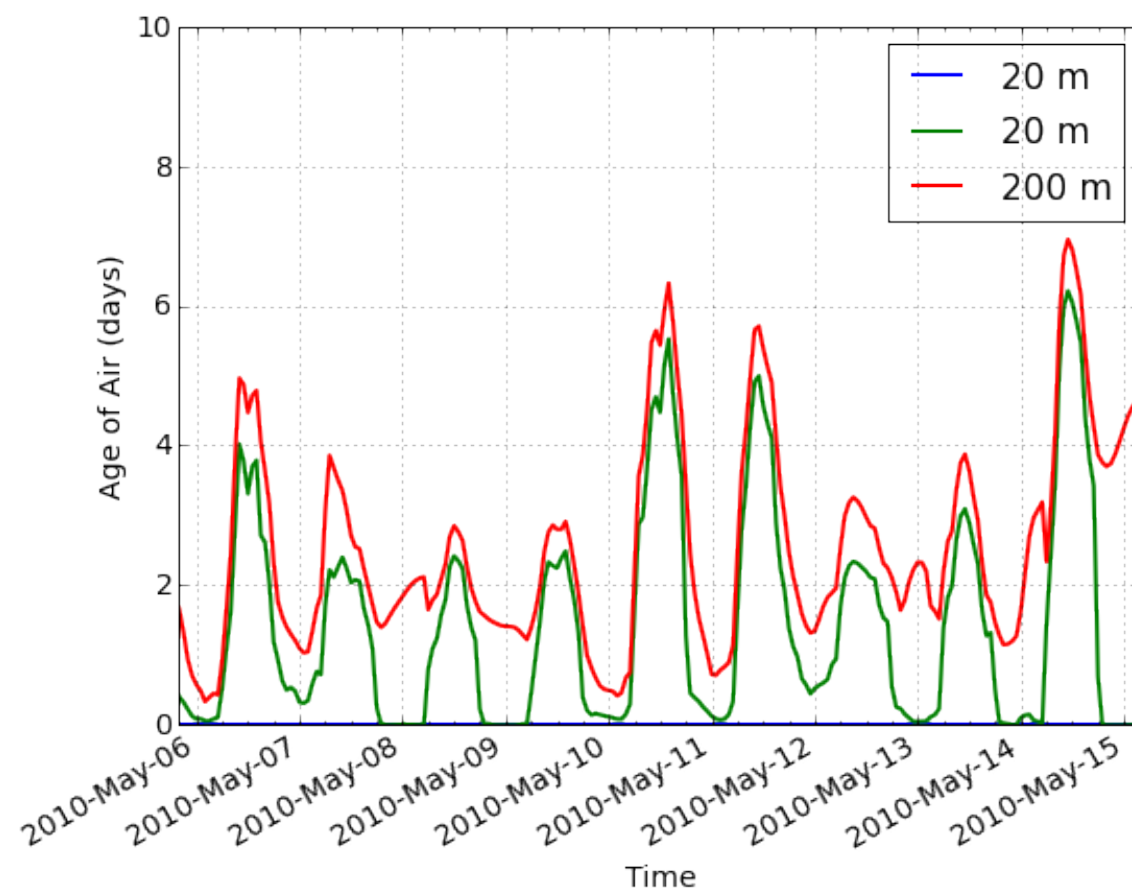
3 CTMs

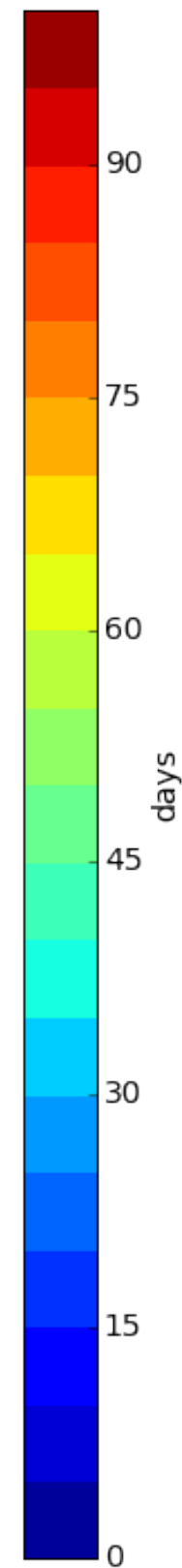
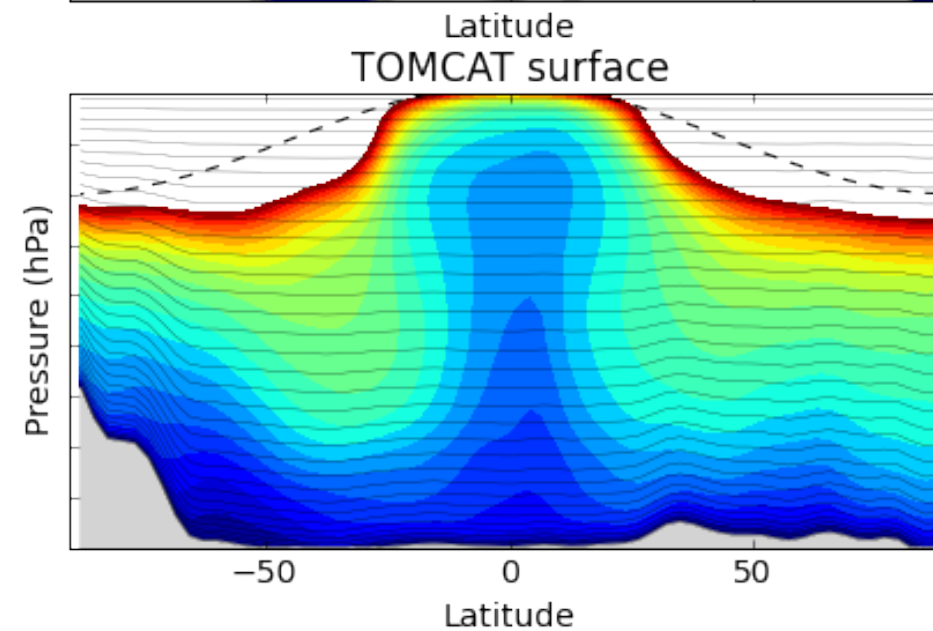
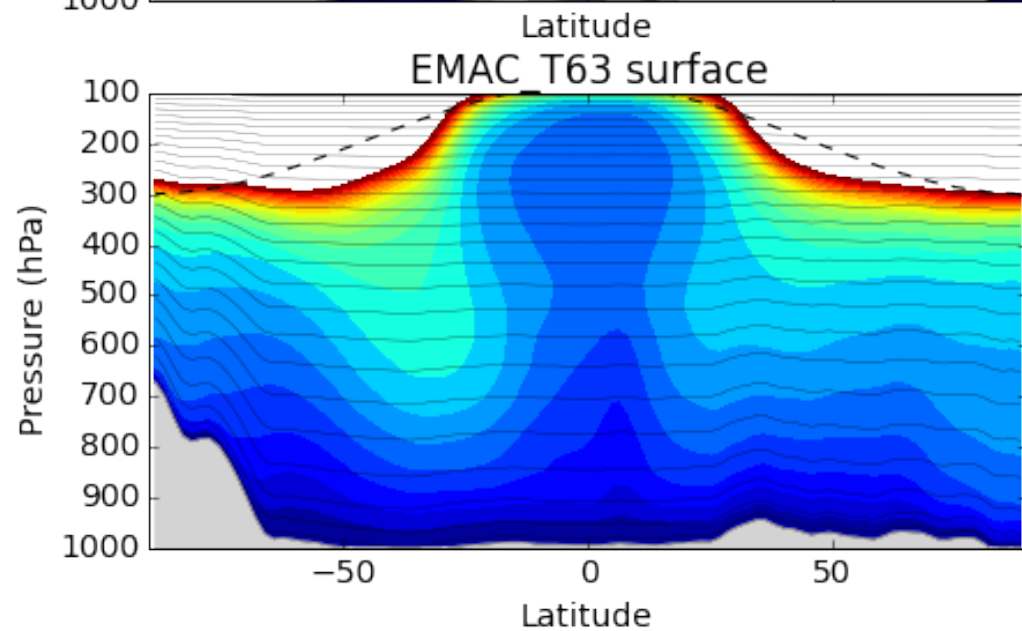
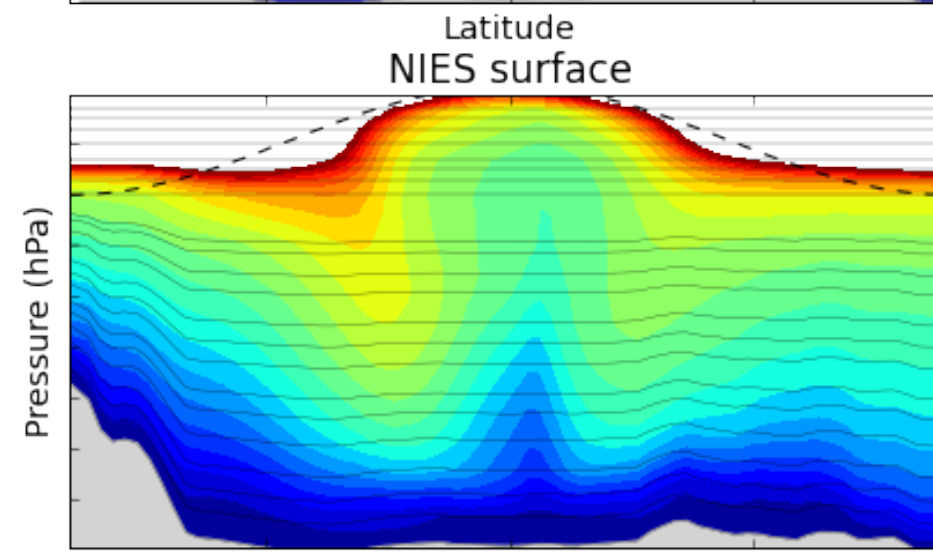
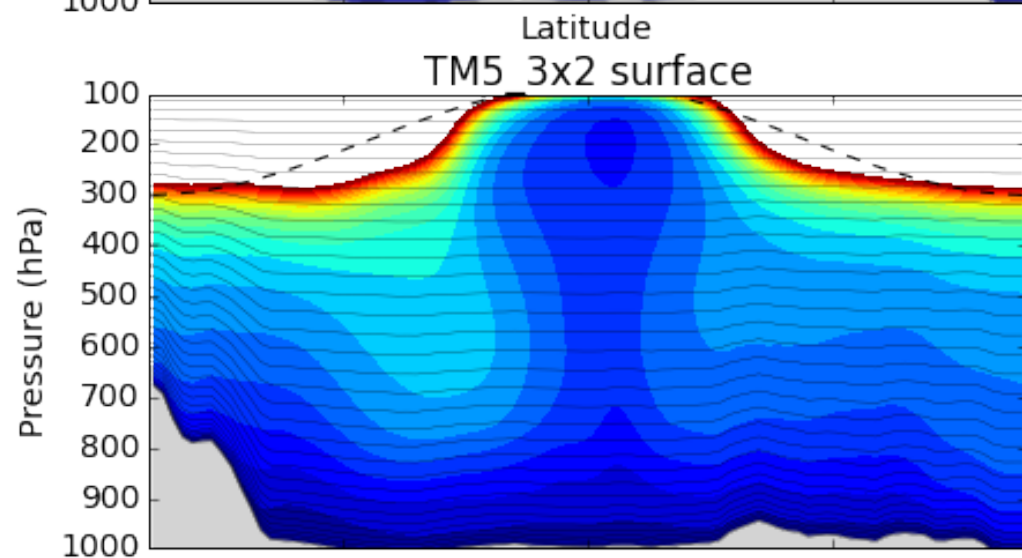
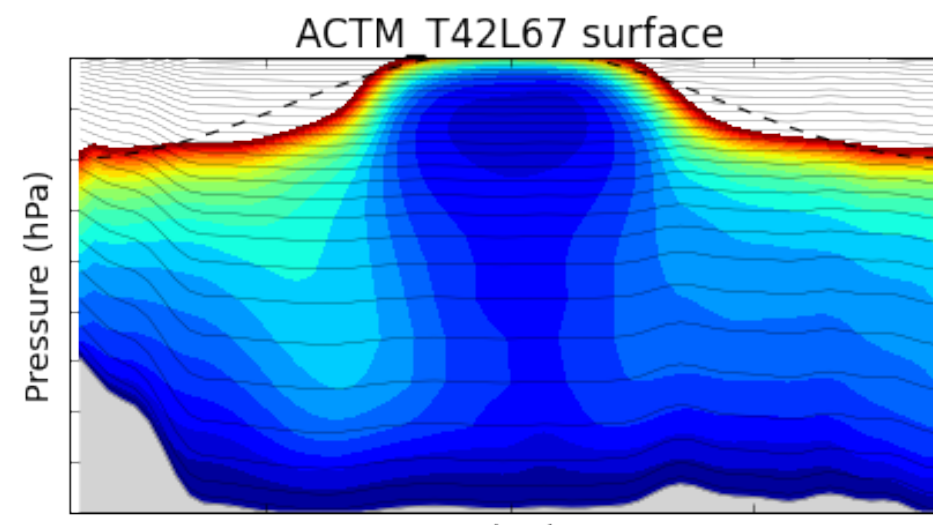
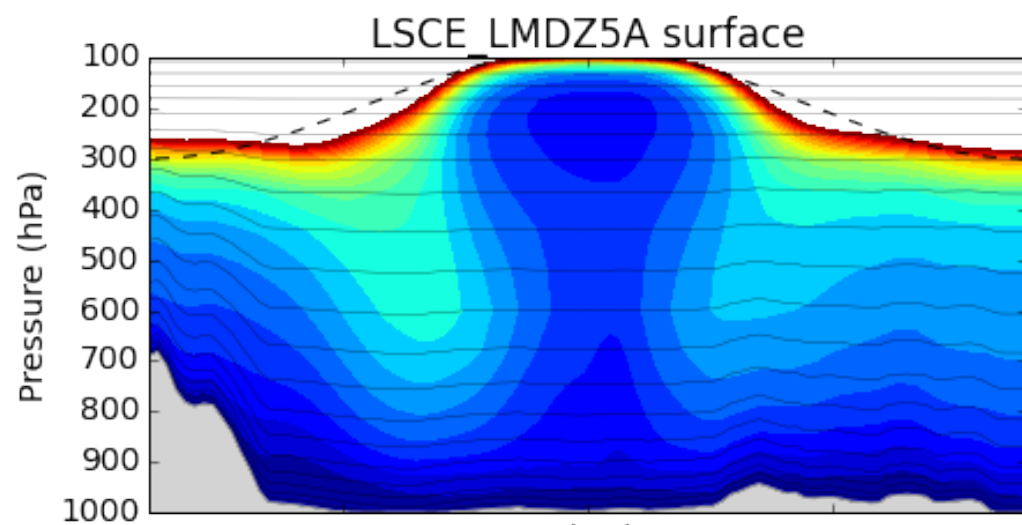
3 GCM

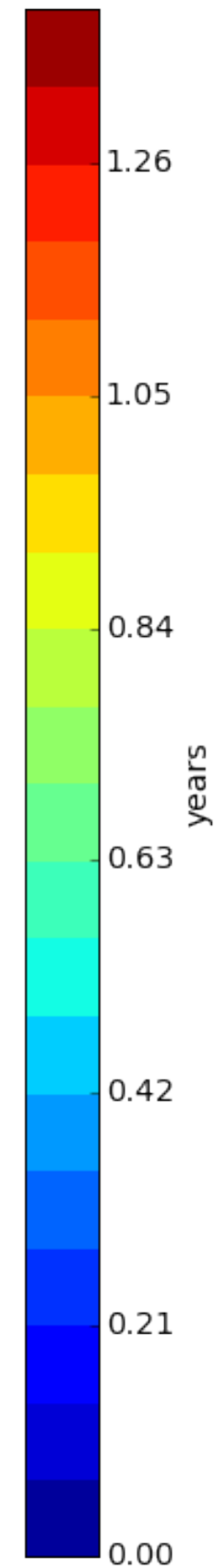
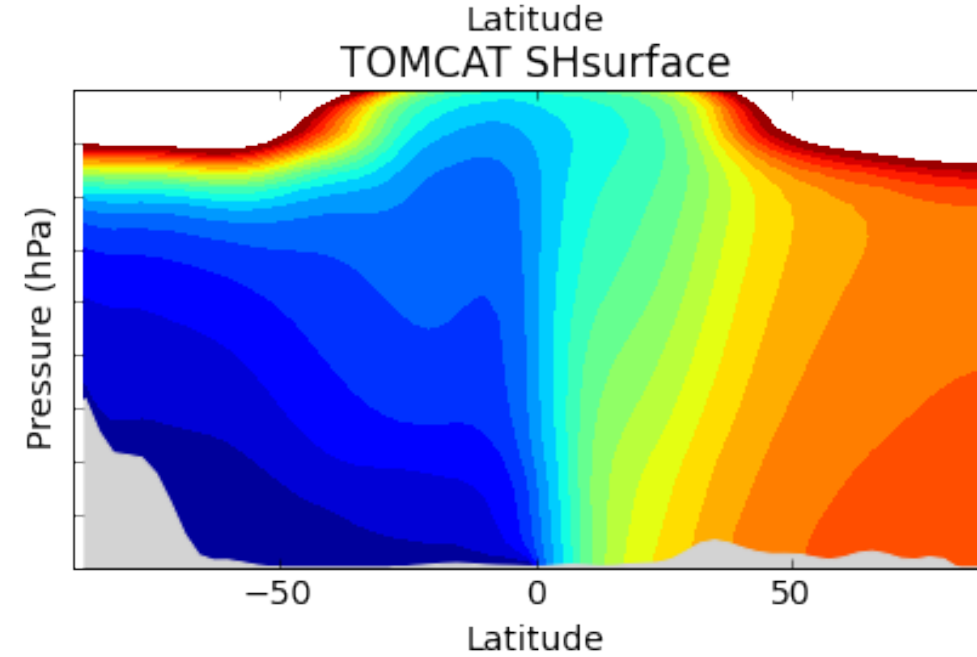
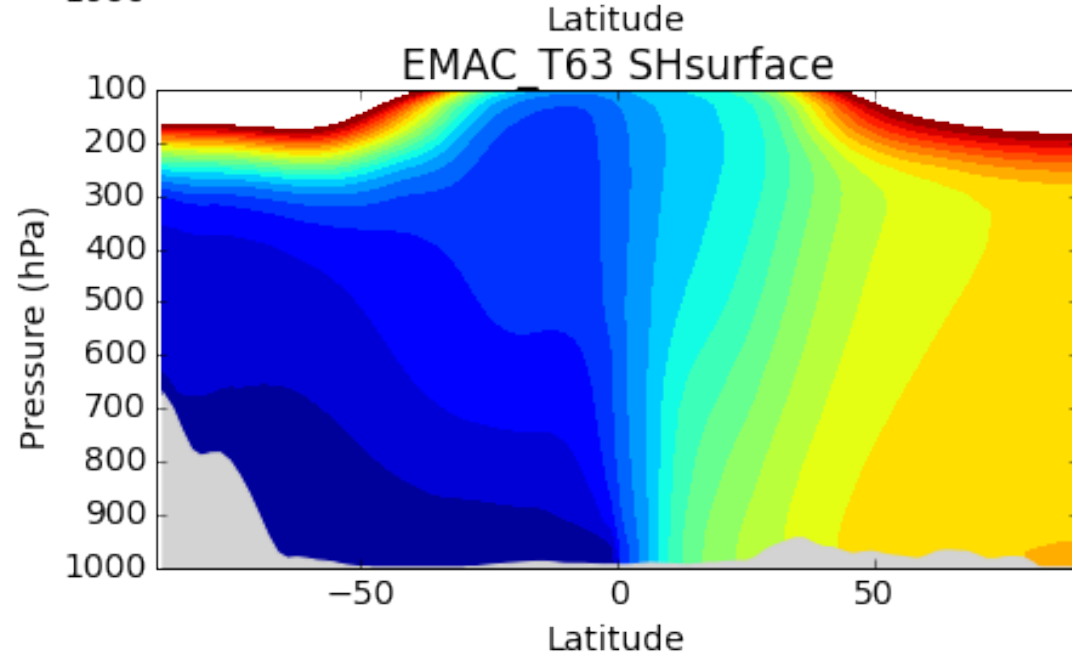
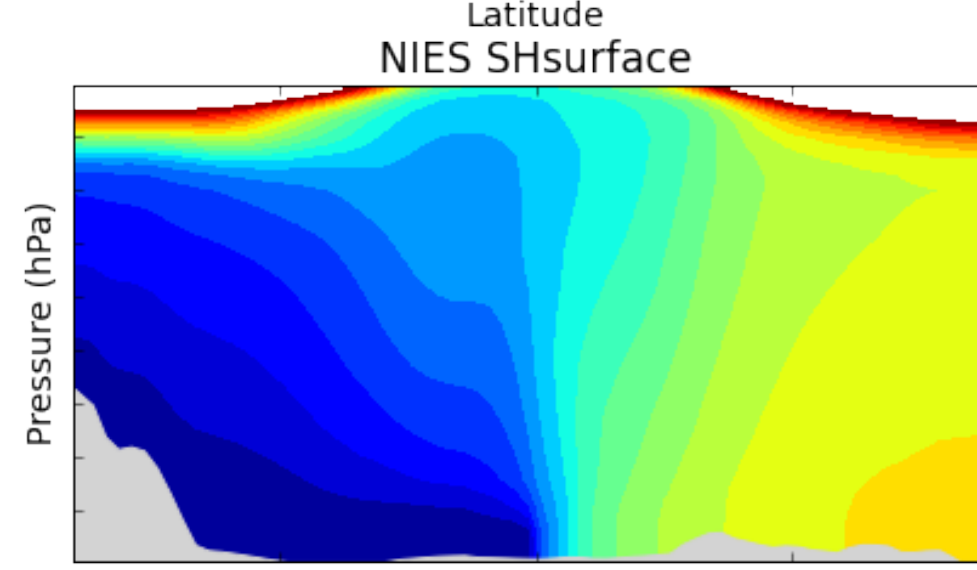
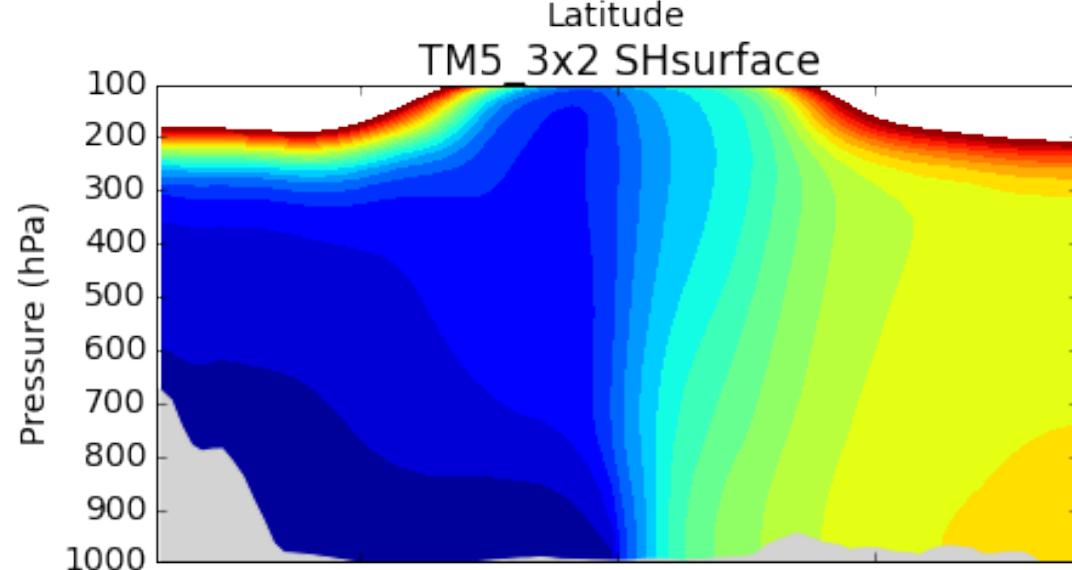
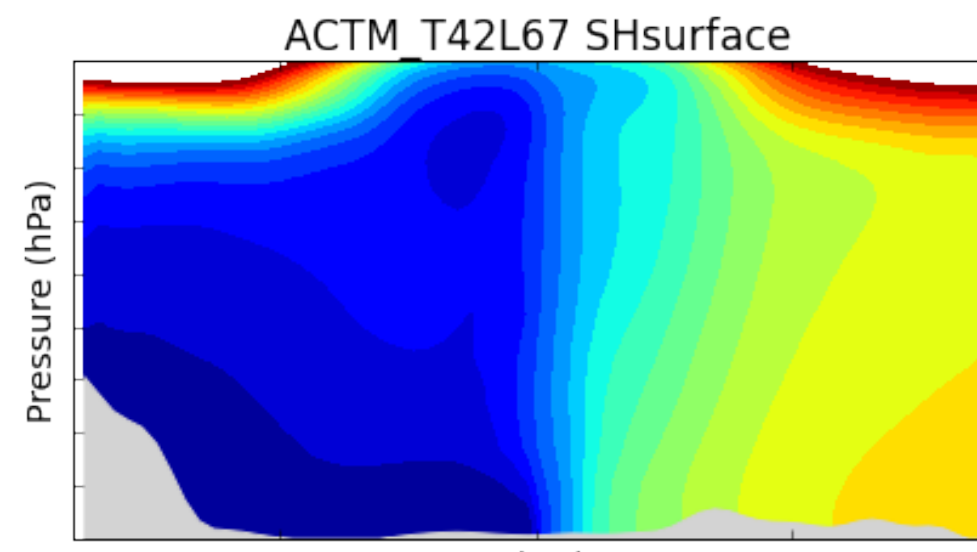
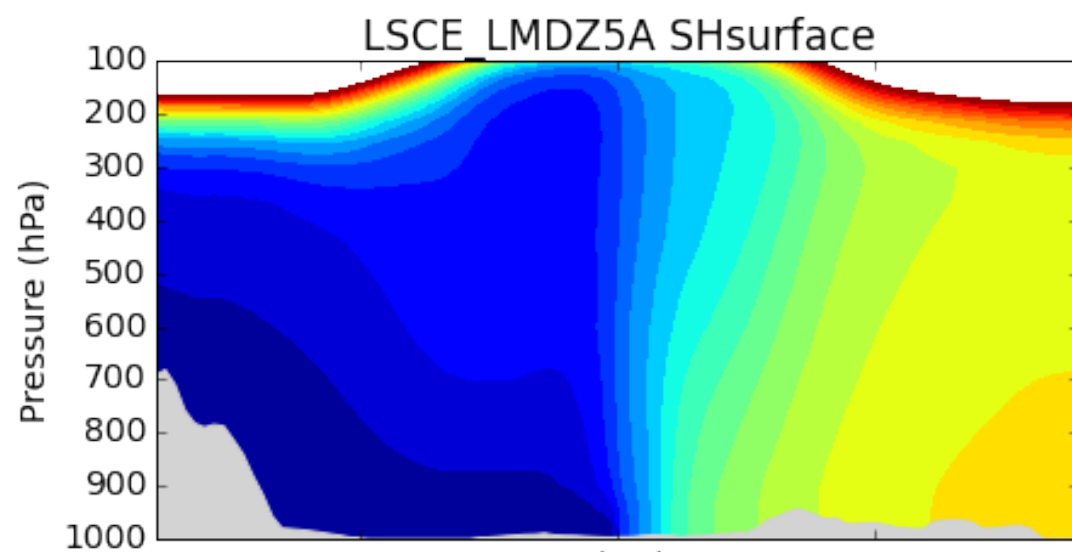
Focus on transport time scales

Here:

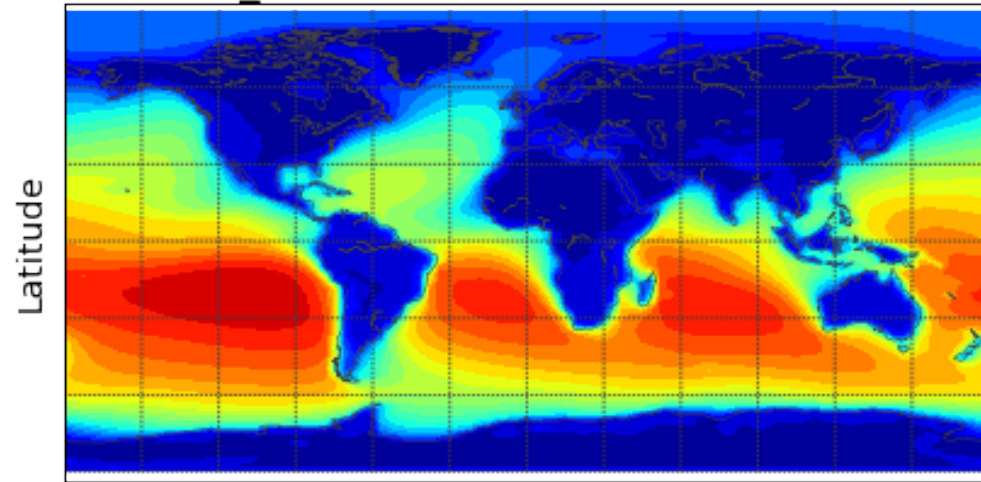
- 1. TM5 (1x1, 60 layers)**
- 2. TM5 (3x2, 60 layers)**
- 3. TM5-EC-Earth (3x2, 34 layers)**





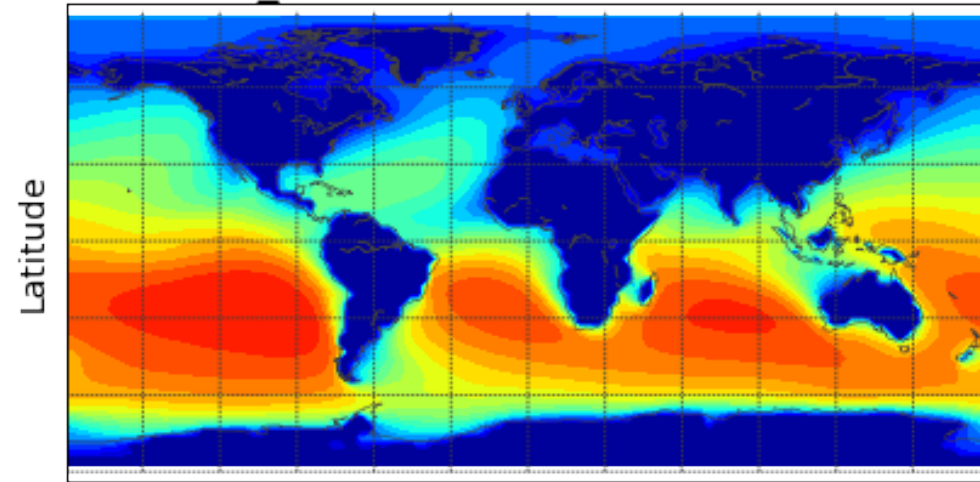


LSCE_LMDZ5A land Pressure= surface



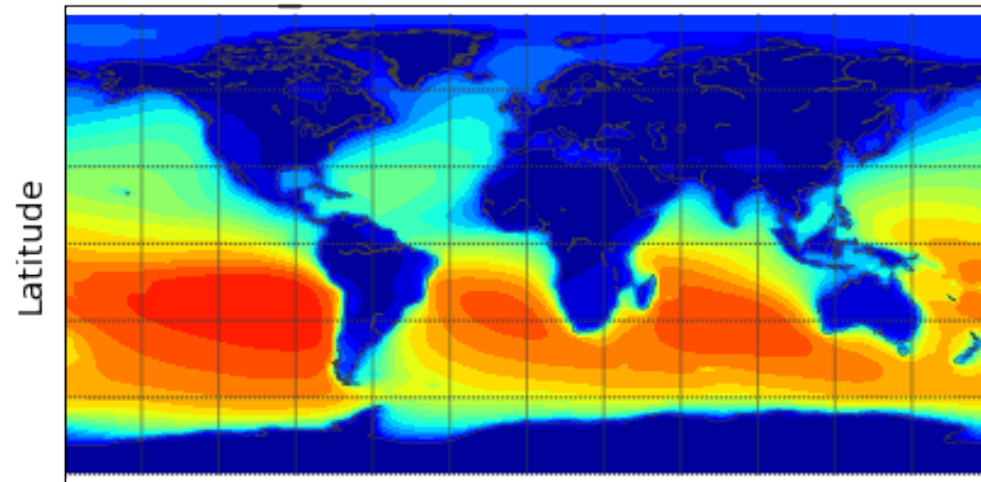
Longitude

ACTM_T42L67 land Pressure= surface



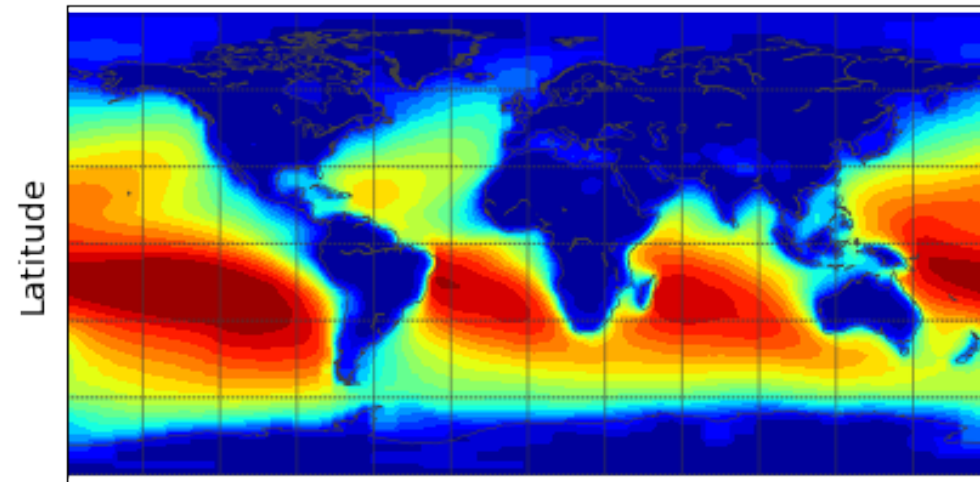
Longitude

TM5_3x2 land Pressure= surface



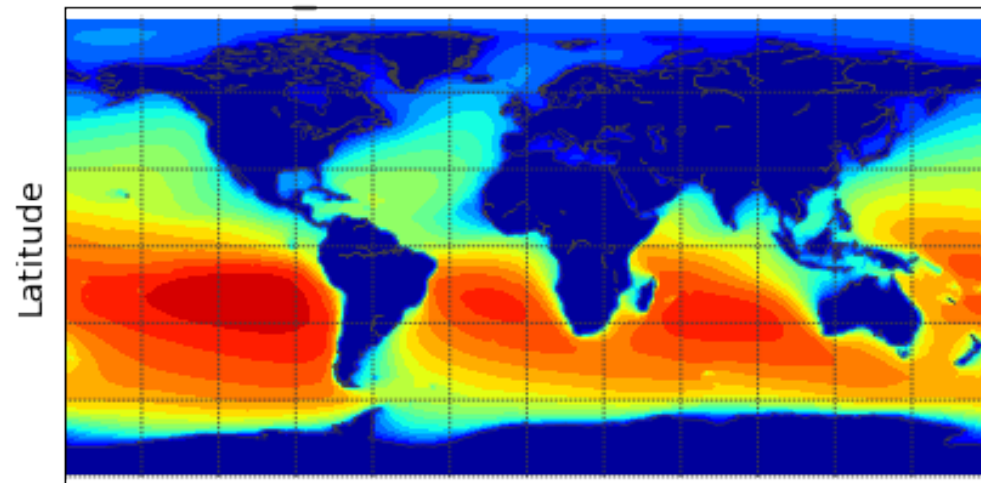
Longitude

NIES land Pressure= surface



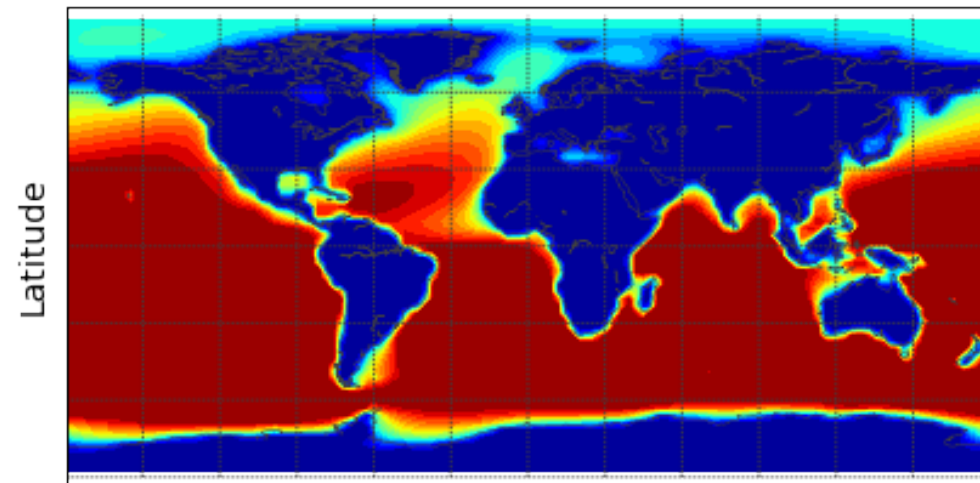
Longitude

EMAC T63 land Pressure= surface

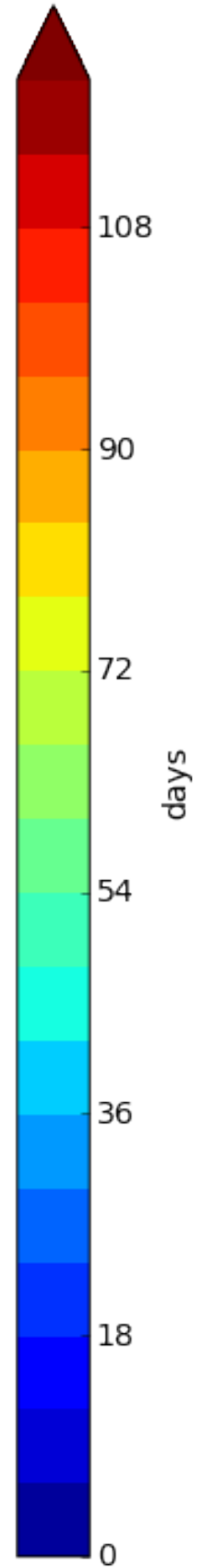


Longitude

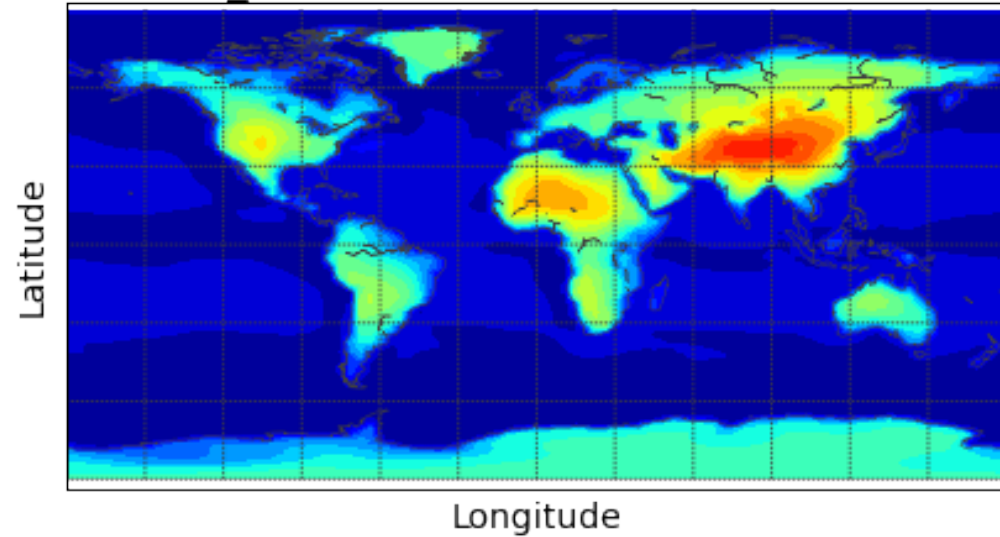
TOMCAT land Pressure= surface



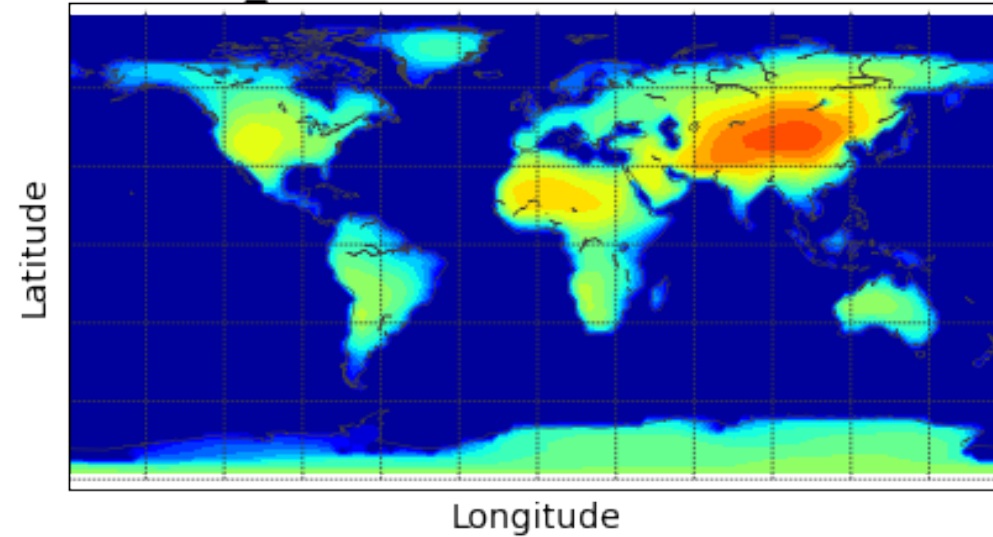
Longitude



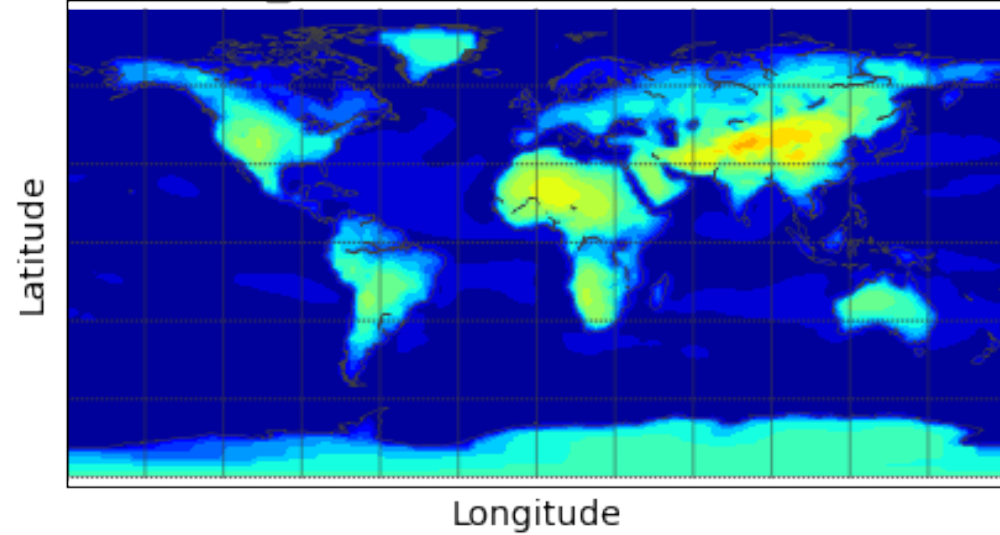
LSCE_LMDZ5A ocean Pressure= surface



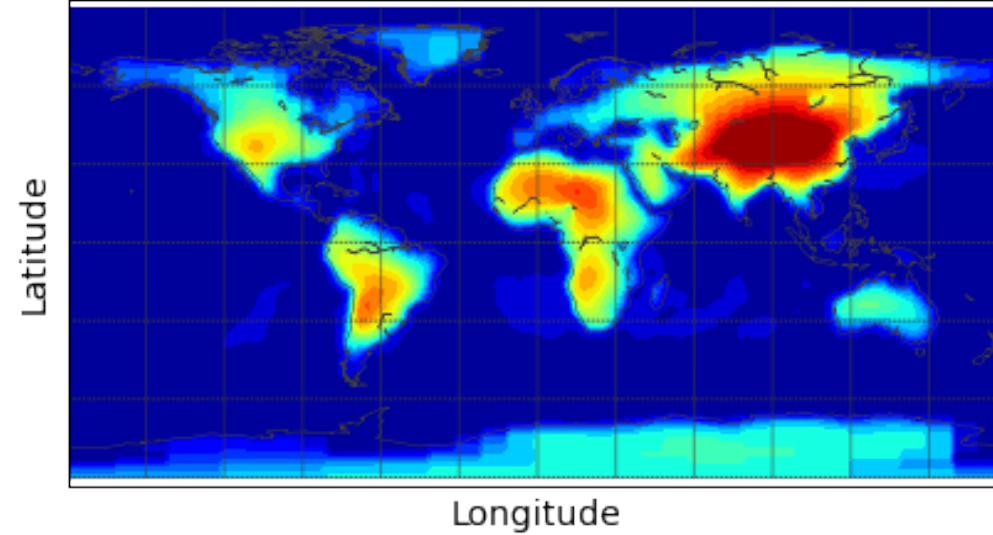
ACTM_T42L67 ocean Pressure= surface



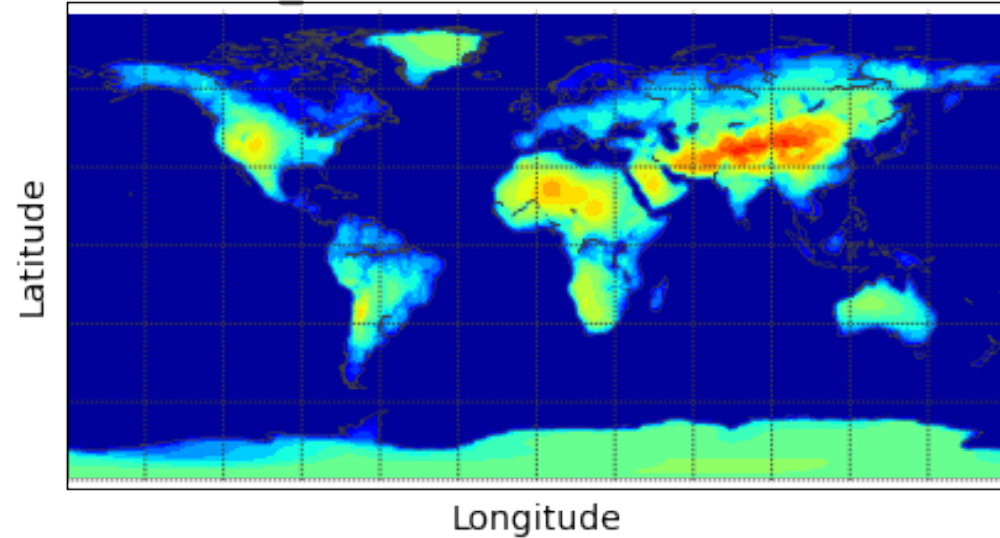
TM5_3x2 ocean Pressure= surface



NIES ocean Pressure= surface



EMAC T63 ocean Pressure= surface



TOMCAT ocean Pressure= surface

