

Thermohaline Circulation

Examples:

[Start with matlab](#)

1) Time series Analysis: Ice cores

[bipolar.m](#)

[download data grip_byrd_highpass.mat](#)

[lagcorr.m](#)

[smooth.m](#)

([plotdatamodel.m](#))

Task: calculate the correlations, lag correlations of the ice cores using the matlab functions and data above

2) Box model

[THC_winton_1993.m](#)

Task: look in the code for

% initial conditions:

T(1)= 20.0;

$T(2) = 1.0;$

$T(3) = 1.0;$

$S(1) = 35.5;$

$S(2) = 34.5;$

$S(3) = 34.5;$

Vary initial conditions: reduce $S(1)$ or $S(2)$ by 0.2 psu

Additional text:

- [ppt Thomas Stocker](#)
 - [Script T.S.](#)
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