

WELCOME

Day 6

SPECIAL GUESTS

FRIDAY MAY 23

City of Carmel-by-the-Sea

- City Council Member Jeff Baron
- City Public Works Director Ken Wysocki
- City Environmental Programs Manager Mary Bilse
- City Environmental Analyst Valerie Gaino
- City Consultants:
 - Matt Jamieson, Senior Scientist
 - Davide Revell, Ph.D.



TUESDAY MAY 27

Dr. Peter C. Chu

Distinguished Professor and Chair
Department of Oceanography
Naval Postgraduate School
Monterey, California



ECCO-Hackweek / ecco-2024Public

generated from ECCO-Hackweek/jupyterbook-template

<> Code

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Insights

How to build the event book on a local machine

Show and tell · ifenty

is:open

Sort by: Latest activity

Label

Filter: Open

Categories

View all discussions

Announcements

General

Ideas

Polls

Q&A

Show and tell

Most helpful

Be sure to mark someone's comment as an answer if it helps you resolve your question — they deserve the credit! 💖

Code of conduct

ecco-hackweek.github.io/ecco-2024

Discussions

1

Toy ECCO

Shreyas911 started on Oct 15 in General

5

1

Drifters

ciarapimm started on Oct 15 in General

4

1

Spinners

bdarbyMLML started on Oct 15 in General

3

1

WMW

sarahzhzhangg started on Oct 15 in General

8

2

GoM

jzaiss started on Oct 16 in General

4

1

ESPRESSO

mjzahn started on Oct 15 in General

6

1

SP-Gecco

MaceKuaiv started on Oct 15 in General

4

1

Processors LLC.

mgoldberg10 started on Oct 15 in General

0

2

How to build the event book on a local machine

ifenty started on Sep 27 in Show and tell

5

1

How to add a tutorial to the ecco hackweek book

ifenty started on Sep 27 in Show and tell

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ECCO-Hackweek / EH24-WMWPublic

generated from ECCO-Hackweek/sample_project_repository

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main

Go to file

<> Code

About

sarahzhzhangg Update README.mdfa5512b · 2 months ago11 Commits

contributorsInitial commit2 months ago

notebooksDelete notebooks/project_result_1.ip...2 months ago

scriptsInitial commit2 months ago

.gitignoreInitial commit2 months ago

EHW24_WMW_poster.pdfUpload final poster2 months ago

EHW24_WMW_poster.pptxUpload final poster2 months ago

LICENSEInitial commit2 months ago

README.mdUpdate README.md2 months ago

environment.ymlInitial commit2 months ago

model-card.mdInitial commit2 months ago

README

BSD-3-Clause license

WMW

WMW = water mass women, women of mode waters, women of water mass, etc.

Introduction

Exploring and understanding how ECCO represents water masses in the Southern Ocean.

Collaborators

Sarah Zhang, Isba Keshwani, Ian Fenty, Gaël Forget, Ichiro Fukumori

Goal

Understanding the consequences of Antarctic sea ice change, especially amidst recent extremes, is important for understanding global ocean circulation. Therefore, we evaluate if ECCO accurately represents water masses and their volumes correctly. Specifically, we delve into Antarctic Bottom Water (AABW) and its volume over time.

Contributors3

sarahzhzhangg

ikeshwani

gaelforgetGael Forget

Languages

Jupyter Notebook100.0%

xarray.Dataset.merge

Notifications

ECCO-Summer-School repositories

https://github.com/orgs/ECCO-Summer-School/repositories?

110%

ECCO-Summer-School

Q Type to search

Overview

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New repository

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Last pushed

ESS25-Team_CROCODILE

Public

Jupyter Notebook

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ESS25-Team_McFLURRIE

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Updated 11 hours ago

ESS25-Team_PUFFIN

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ESS25-Team_ECCO-UP

Public

Uses ECCO products to investigate temperature and salinity anomalies in the coastal upwelling region south of Java.

ecco-summer-school-2025

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ESS25-Team_The_Day_Before_Tomorrow

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ESS25-Team_PISEAL

Public

To study the Physical Processes Impacting Regional Sea Level from ECCO v4r5

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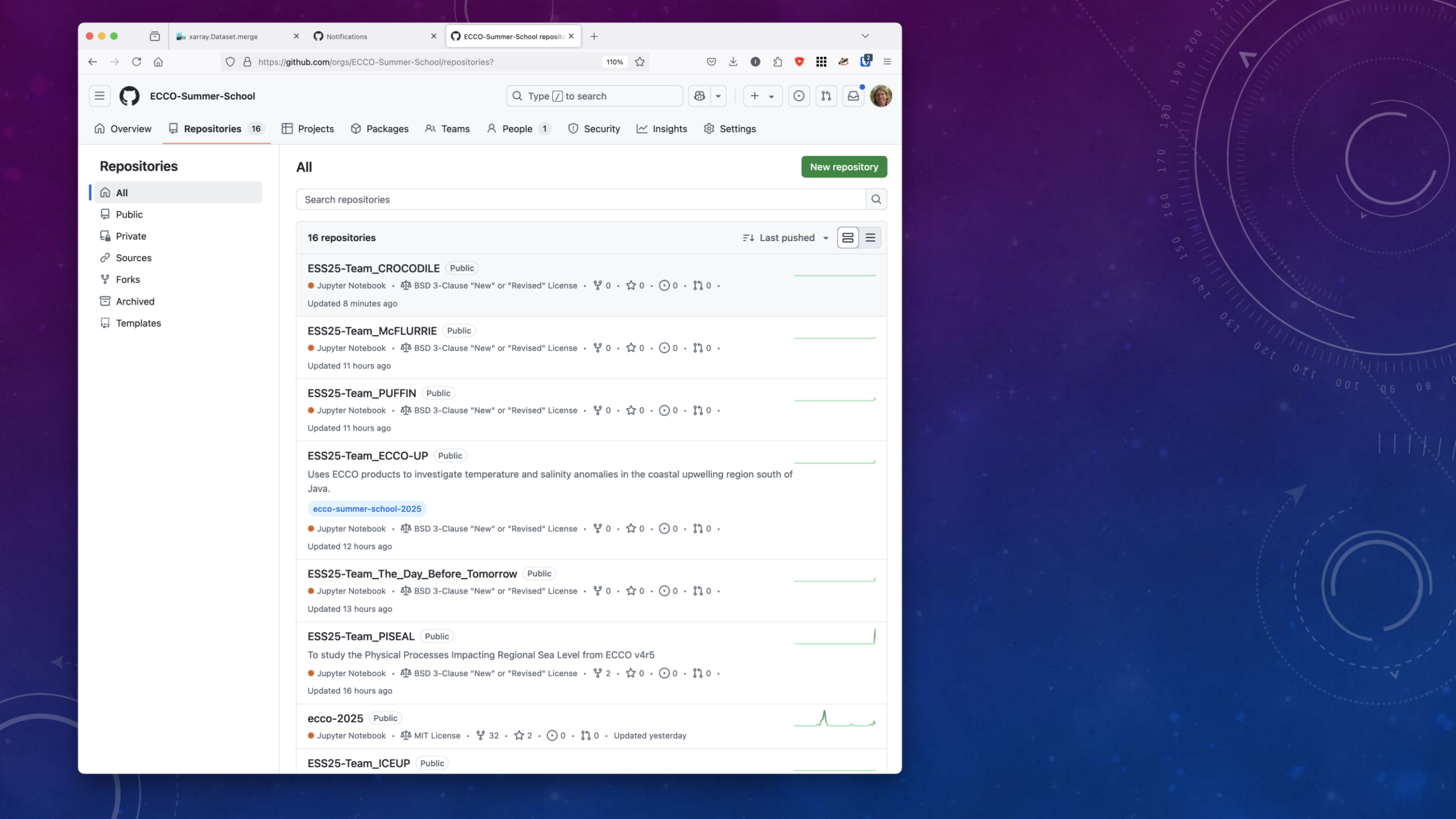
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Updated yesterday

ESS25-Team_ICEUP

Public



Adjoint Sensitivities & Heat/Volume Budgets in ECCO for Regional Investigation Over the California Current System (SHERLOCCS)

PROJECT UPDATES; MAY 26

OBJECTIVES; LONG-TERM –

- 1) **Close the volume & heat budgets for Zaba et al. model region & period,** using the ECCO Central Estimate
- 2) Perform a sensitivity analysis to identify drivers of variability in the heat & volume budgets–**do our results agree with Zaba et al. findings?**
- 3) Literature identifies coastally-trapped waves as mechanism for persistent thermosteric anomaly along California coast–**does this anomaly appear in the Central Estimate?**
- 4) Rinse & repeat steps (1) & (2) for South China Sea–**how are volume & heat budgets affected by model region?**

SUMMARY; MAY 23 & WEEKEND –

- Made progress towards closing volume & heat budgets over model domain
- Started sensitivity analysis on subsurface SST anomalies
- Began exploring potential adjoint cost functions

THE PLAN; MAY 26 –

- Proceed with volume & heat budget calculations → begin analyzing results & comparing to Zaba et al.
- Organize GitHub page: describe research question & approach, document progress

