
WELCOME
Day 6

SPECIAL GUESTS

FRIDAY MAY 23

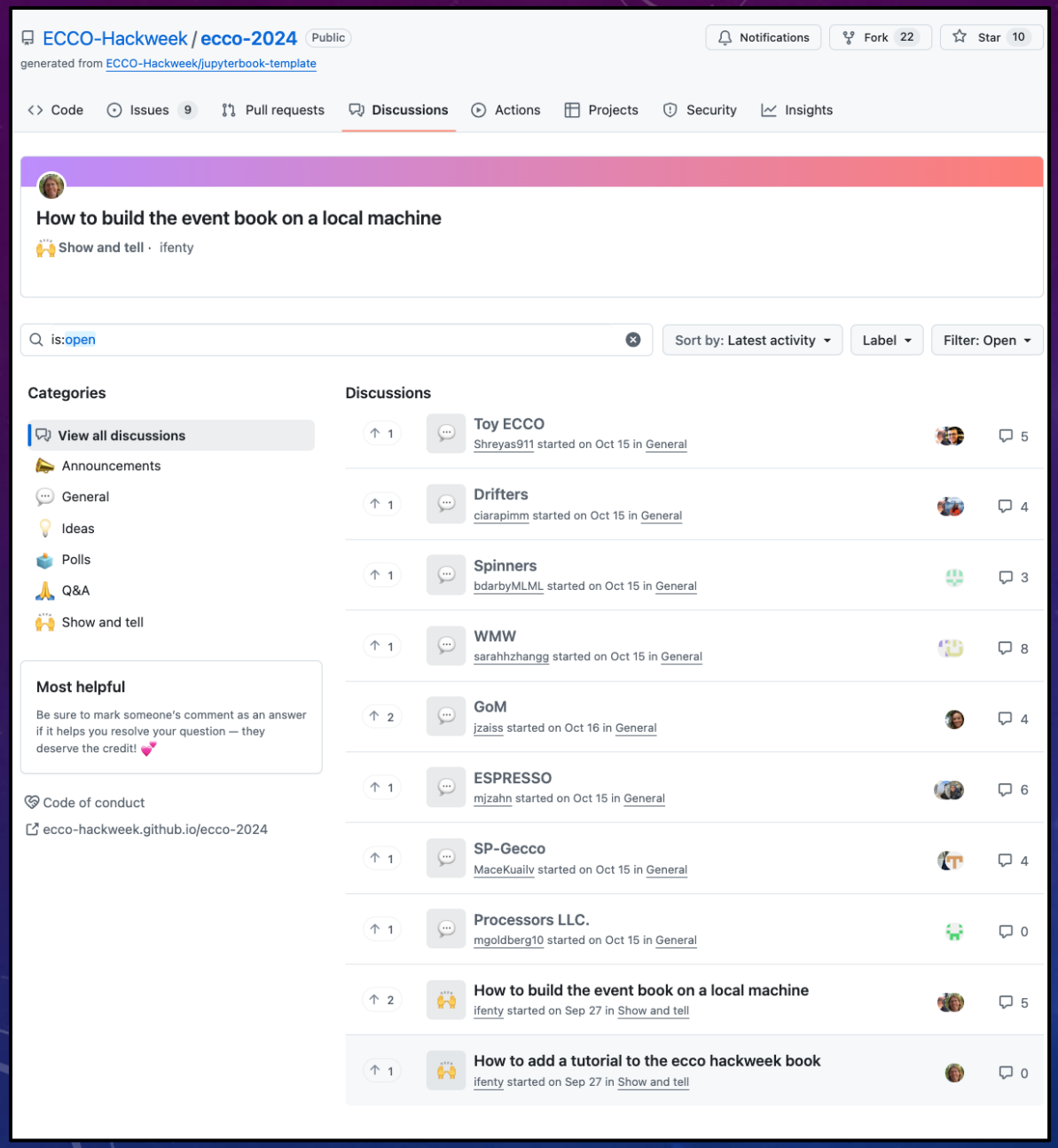
City of Carmel-by-the-Sea

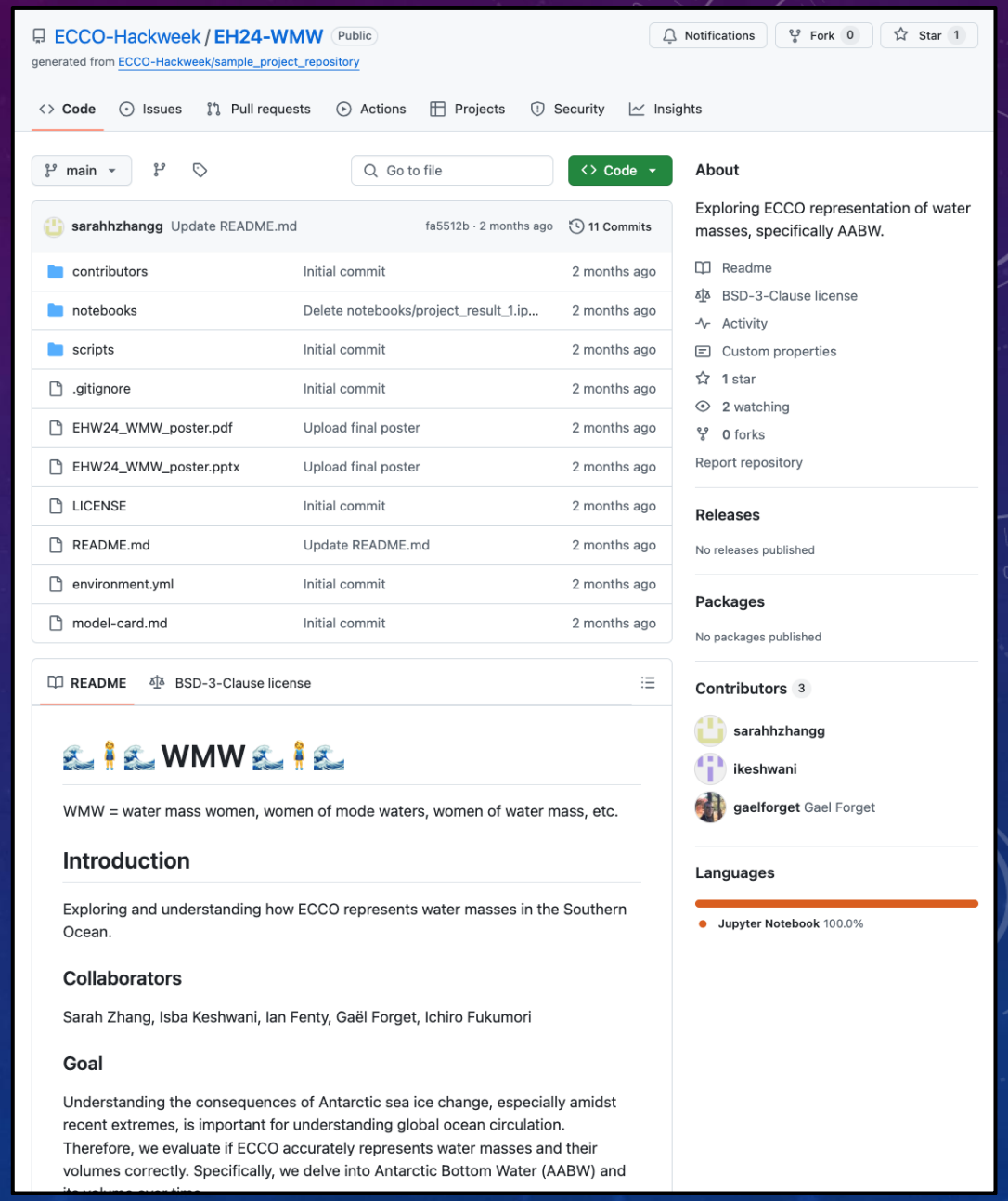
- City Council Member Jeff Baron
- City Public Works Director Ken Wysocki
- City Environmental Programs Manager Mary Bilse
- City Environmental Analyst Valerie Gaino
- City Consultants:
    - Matt Jamieson, Senior Scientist
    - Davide Revell, Ph.D.

TUESDAY MAY 27

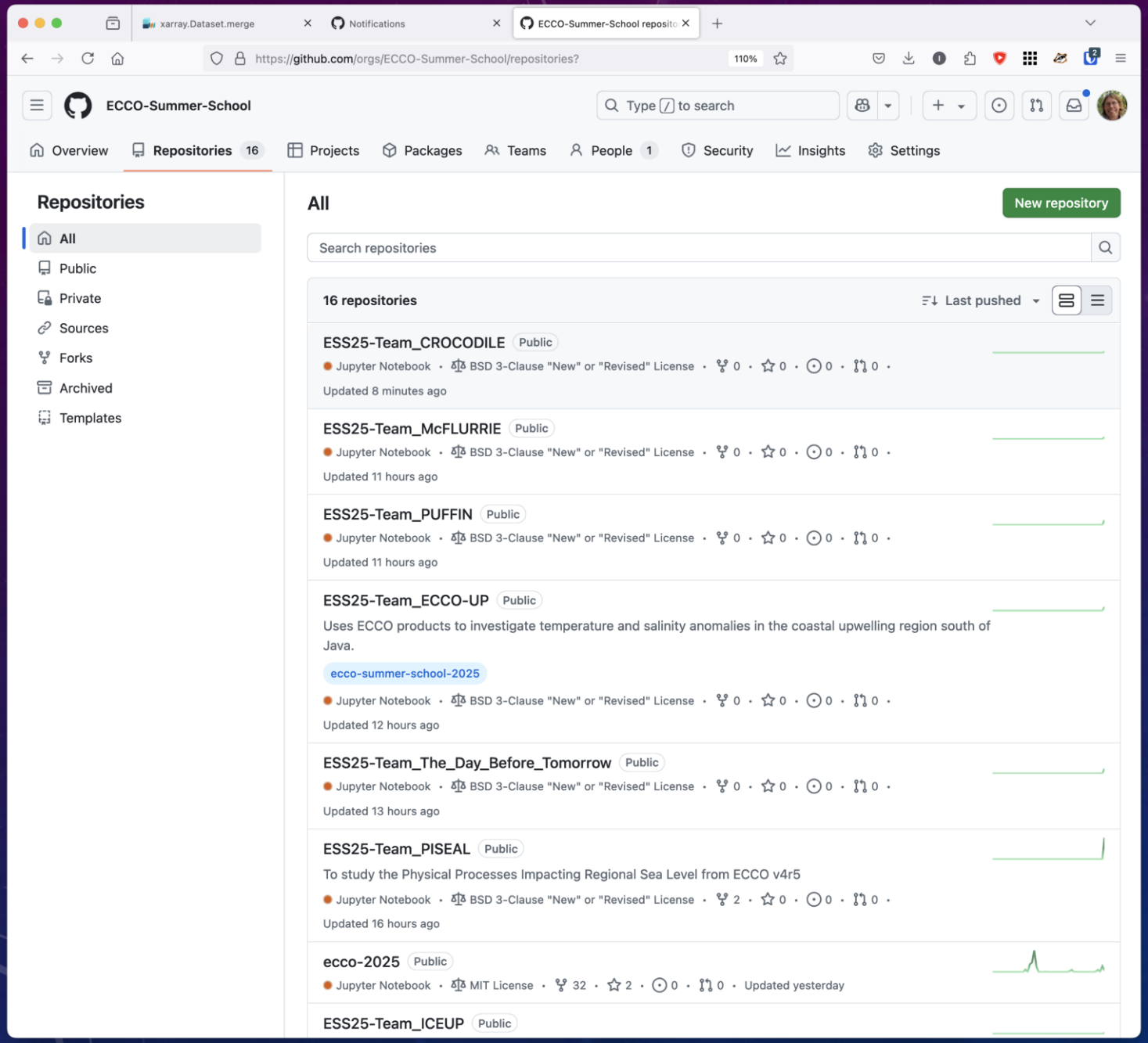
Dr. Peter C. Chu

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





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

PROJECT UPDATES; MAY 26

OBJECTIVES; LONG-TERM –

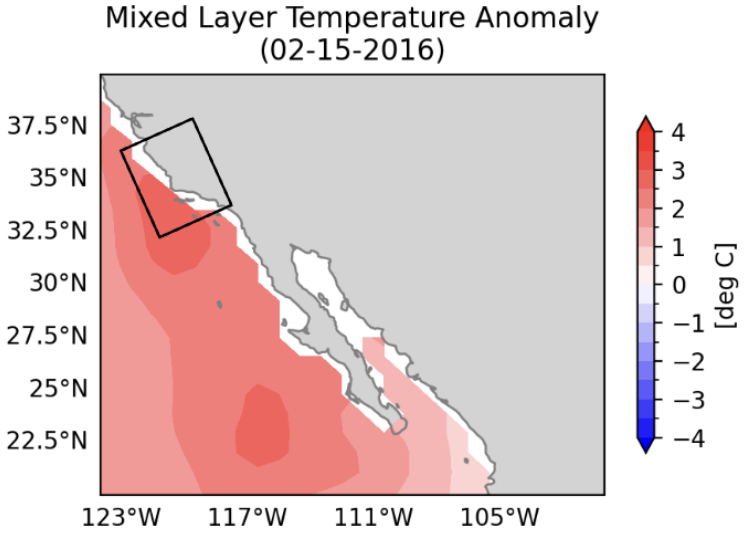
1) **Close the volume & heat budgets for Zaba et al. model region & period**, using the ECCO Central Estimate
2) Perform a sensitivity analysis to identify drivers of variability in the heat & volume budgets–**do our results agree with Zaba et al. findings?**
3) Literature identifies coastally-trapped 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?**

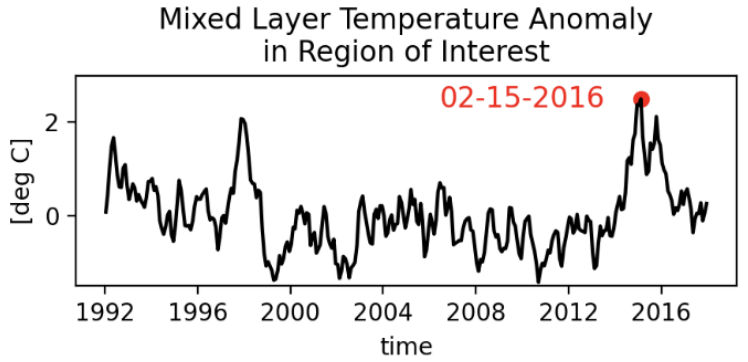
SUMMARY; MAY 23 & WEEKEND –

- 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





Caeli Griffin, Anthony Meza, & Yue Wu