T: March 31: Introduction, class objectives, and decide on class topics and presenters, Introduction to the global observing system, and Example: Bryden Nature 2005

**Subtropics**
Th: April 2:
   Agulhas Current (Lynne) (Beal et al., JPO 2015)

T: April 7:
   a) (Gulf Stream) Western boundary current “tight recirculation gyres” (Hayden) (Richardson, JMR 1985)
   b) Ekman spiral and transport (Youran) (Chereskin and Roemmich, JPO 1991)

Th: April 9
   California Current (Mitchell) (Auad et al., PiO 2011)

T: April 14:
   Kuroshio (Karen) (Jayne et al., DSR 2009)

Th: April 16:
   Sverdrup balance (Monica)

**Tropics**
T: April 21
   Ocean circulation and El Niño (Hayden)

Th: April 23
   Geostrophy near the Equator (Youran)

**High latitudes**
T: April 28 (NOTE DOUBLE TOPICS)
   Large scale freshwater cycles of the Arctic (Mitchell)
   Southern Ocean surface layer under seasonal ice (Karen)

Th: April 30
   AABW formation (Monica)

T: May 5
   Ocean forced glacial melting (Hayden)

**Overturning circulation and abyssal circulation**
Th: May 7
   Ocean Mixing  (Youran)

T: May 12
   Deep transport from S. Pacific via Samoan Passage (Mitchell)

Th: May 14
   North Atlantic heat transport (Karen)

T: May 19
   Eddies in the ocean  (Monica)

**Global change**

Th: May 21
   Global Ocean Warming  (Hayden)

T: May 26:
   Sea level rise (Youran)

Th: May 28:
   Sea ice changes (Mitchell)

T: Jun 2
   Glacial-interglacial variations of the MOC (Karen)

Th: Jun 4
   Deep ocean warming (Monica)

**June 8-12: Optional** meeting during finals week to prep for written/orals

**Data:**

Argo
   Repeat Hydrography
   Velocity - LADCP
   Tracer data
Satellite observations:  SST/SSH/SSC
Moorings
   Modals and reanalysis products
XBT program
   Surface drifter program
Microstructure measurements
Wave moorings