

GFD days 2015 (III)



The Swiss Institute for Dryland Environmental and Energy Research Alexandre Yersin Department of Solar Energy and Environmental Physics (YDSEEP) The Jacob Blaustein Institutes for Desert Research, Ben-Gurion University of the Negev

Monday, Jan. 19

Departure of the bus from Weizmann Institute to Sede Boqer
 Opening words: Boris Zaltzman, Director, Jacob Blaustein Inst. For Desert Research

10:15 Oral session I (Chair: E. Tziperman)

- 10:15 <u>Keynote lecture:</u> Brian Farrell Conceptual basis of Statistical State Dynamics
- 11:15 Coffee break

11:50 Oral session II (Chair: E. Tziperman)

- 11:50 Chaim Garfinkel
 - Tropospheric Rossby wave breaking and variability of the latitude of the eddy-driven jets
- 12:10 Janni Yuva
 - Eddy activity sensitivity to changes in the vertical structure of baroclinicity
- 12:25 Vered Silverman
 - Ozone and planetary waves in the stratosphere
- 12:40 Hilla Afargan
 - Distribution and intensity of storm track activity in an idealized GCM with a seasonal cycle
- 12:55 Rei Chemke
 - The latitudinal dependence of jet spacing and macroturbulent energy cascades in the atmosphere

13:10 Lunch break + Poster session

Abigail Bodner

The effects of stationary forcing on global circulation regimes

Yohai Kaspi

Utilizing the upcoming gravity measurements by Cassini's proximal orbits for studying the atmospheric dynamics on Saturn

Ayah Lazar

Zonal variations of eddy diffusivities in an ACC-like channel: discrete transport corridors

Roiy Sayag

Gravity currents over porous substrate with finite entry pressure

Eli Tziperman

A predictive model for the sea ice floe size distribution

15:00 Oral session III (Chair: Y. Kaspi)

- 15:00 Yair Zarmi
 - Structure of asymptotic soliton webs in two-dimensional shallow water equation
- 15:20 Yael Amitai
 - Multiple equilibria in eastern Mediterranean deep-water formation
- 15:35 Yonaton Goldsmith
 - The modern and LGM hydrological cycles of the eastern Mediterranean and the Levant from a water isotope perspective
- 15:50 Hezi Gildor
 - Is light spectrum pose an upper bound on SST?
- 16:10 Coffee break

16:40	Oral session IV (Chair: H. Gildor)
16:40	Nathan Paldor Linear waves on Earth: Is the Coriolis parameter overrated in planar wave models?
17:00	Talia Tamarin
17:15	The poleward tilt of storm tracks from a PV tendency analysis of cyclone tracking composites Keynote lecture: Brian Farrell
40.45	Introduction to the theory of Statistical State Dynamics
18:15	Room check-in
19:00	Dinner
20:30	Star Gazing
Tuesday, Jan. 20	
7:00	Breakfast
8:00	Hike
12:00	Oral session V (Chair: N. Paldor)
12:00	Keynote lecture: Brian Farrell Statistical State Dynamics of baroclinic turbulence
13:00	Lunch break
14:00	Oral session VI (Chair: N. Paldor)
14:00	Ehud Gavze Effect of non normal growth on the orientation dynamics of spheroids in linear shear flows
14:20	Ehud Strobach The relative contribution of various factors to the uncertainty in decadal climate predictions
14:35	Yehuda Arav Dispersion in a canyon by katabatic wind
14:50	Lilly Verso Experimental study of the initial growth of a localized turbulent patch in a stably stratified fluid
15:05	Nili Harnik
15:25	The involvement of circumglobal wave packets in forcing stratosphere wind anomalies Coffee break
15:55	Oral session VII (Chair: N. Harnik)
15:55	Eli Galanti How fast does Saturn rotate? A determination of Saturn's rotation period from its gravitational field
16:15	Marzia Parisi Detecting the depth of Jupiter's vortices with the Juno gravity measurements
16:30	Orli Lachmy Equilibration of the wave spectrum in different jet regimes
16:45	Yair Cohen Why is the stable structure of baroclinic eddies still an open question?
17:00	Avi Gozolchiani
17:15	Significant effects of geothermal heating on a local ocean basin overturning circulation Georgy Burde Higher order effects in water waves
18:00	Bus to north