



Geofizički odsjek

Prirodoslovno-matematički fakultet, Sveučilište u Zagrebu

Horvatovac 95, 10000 Zagreb

Tel. (01) 4605-900, fax: (01) 4680-331

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O B A V I J E S T

Dana 25.1.2012. u 13¹⁵ održat će se u okviru seminara i kolokvija na Geofizičkom odsjeku PMF-a sljedeće izlaganje:

Željko Večenaj, B.Sc

(University of Zagreb, Faculty of Science, Department of Geophysics):

Characteristics of the bora related turbulence

Doktorski seminar

ABSTRACT: Strong to severe bora is a downslope windstorm that blows at the eastern Adriatic coast from the northeastern quadrant in the lee of the Dinaric Alps. Due to possible severity, it represents a great hazard to traffic, infrastructure, tourism and agriculture, as well as a great potential in wind energy resources. Therefore, it is important to understand the bora dynamics on the synoptic as well as on meso- and micro- (turbulent) scale. In order to quantify turbulence, a suitable turbulence averaging scale (TAS) has to be specified. So far, investigation of the bora turbulence was mainly based on the ground based high-frequency measurements conducted in the town of Senj, using arbitrarily chosen TAS of 10 min. In this work, the procedure for finding a proper (exact) bora TAS is described. The procedure is based on two independent methods: Fourier Spectral Analysis and Multiresolution Flux Decomposition. Besides the data from Senj, the same type of measurements from Vratnik Pass (10 km eastern of Senj) and Pometeno Brdo (Dugopolje, hinterland of the city of Split) are used. Also, the analysis is applied to the NCAR Electra aircraft data measured during the MAP campaign. It will be shown that bora TAS is not unique (it is different for different bora events and it depends on location and type of measurements), that for the ground based measurements TAS can be much longer than 10 min, and that for the aircraft measurements TAS should be on scales below 10 km.

Pozivaju se studenti, apsolventi i svi zainteresirani da prisustvuju predavanju, koje će se održati u predavaoni br. 2 Geofizičkog odsjeka PMF-a, Horvatovac 95, Zagreb. Studentima 2. godine diplomskog sveučilišnog studija fizika - geofizika je prisustvovanje predavanjima u sklopu Geofizičkog seminara obavezno.

Zbog prisutnosti Dr. Stefana Serafina na Geofizičkom odsjeku, izlaganje i diskusija će se održati na engleskom jeziku.