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ORFEUS: waveform data from European-Mediterranean broadband stations

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Currently, ORFEUS [www.orfeus-eu.org] is rapidly updating and improving its services with regard to data availability. These developments are embedded in a larger framework of NERIES to coordinate earthquake data availability within Europe. A major hardware upgrading has accompanied the service improvements. This presentation will present a comprehensive overview of these updated services. In this abstract we mention some highlights.

The Virtual European Broadband Seismic Network (VEBSN) has been expanded to more than 250 stations from more than 50 observatories. Data gathered through this network is made available through ftp, web applications, data-selection client software and e-mail based request mechanisms such as AutoDRM. A revised and updated web site provides an overview of the new services. The data exchange in the European-Mediterranean region is coordinated at the annual Observatory workshops organized by ORFEUS in conjunction with one of the individual observatories (Barcelona May 5-8, 2008).

Although the VEBSN gathers waveform data efficiently, it needs to be accompanied by systematic data Quality Control (QC) procedures. ORFEUS is currently investing in building up such procedures to improve the quality of the archived data. The QC encompass, among others, verification and updating of metadata (dataless SEED), monitoring of data completeness, and updating missing data (both from VEBSN and non-VEBSN stations).

June 19-20, 2008 ORFEUS will also organise the first ORFEUS workshop oriented towards research applications that benefit from the availability of broadband waveform data. This year the subject will be 'waveform inversion'.

Registration forms and detailed information will be available on the ORFEUS web pages and during this session.