

ALERTES-SC3 and ALERTES-site:an Earthquake Early Warning System for south Iberia.

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ALERTES-SC3 is a regional Earthquake Early Warning System (EEWS) developed at the Royal Spanish Navy Observatory (ROA) in the frame of the ALERT-ES (2011-2013) and ALERTES-RIM (2014-2016) Spanish projects, based on the SeisComp3 seismic package. The EEWS are largely based on algorithms derived from the analysis of the first seconds of the P-waves. Calculation of several parameters are carried out, mainly the characteristic period (τ_c), the displacement and velocity peaks (P_d , P_v) and the maximum period ($\tau_{Pm\acute{a}x}$), among others. The moment magnitude is estimated from the empirical scaling laws obtained, and also the peak ground velocity, and others parameters are estimated. The idea is to combine the EEWS characteristics with the earthquake monitoring using a unique software. But in order to warn the areas closest to the hypocentre, places located inside the "blind zone", a on-site EEWS has also been developed by ROA (ALERTES-site) running in some WM stations. The ALERTES-SC3 and ALERTES-site are operating in real time under test for south Iberia using existing broad band stations from the WM, IGN and IMP (Portugal) networks. In this presentation, the main characteristics and preliminary results will be shown.