ALERTES: An Earthquake Early Warning System for the Ibero-Maghrebian region

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We present the main results obtained in the ALERTES and ALERTES-RIM projects to develop an EEWS for the Ibero-Maghrebian region. The occurrence of large and destructive earthquakes, in this region, such as those of Lisbon 1755 or Boumerdes (Algeria) 2003, justify the need to develop an EEWS. We have checked empirical correlations to homogenize the different magnitude scales used. Specific correlations between $\tau_c$, $P_d$, and $M_w$ have been developed. The study of the blind zone for SW Iberia shows the feasibility of an EEWS for the region. Results obtained from prototypes of EEWS developed for the region and the PRESTo software show the utility of an EEWS for the region.