

Comparing REB and SSEB (IDC products) with other Seismic Data Centers

Through my work in JSO (Jordan Seismological Observatory) I noted that there is some differences in the result of seismic data analysis in most of international seismic data centers and the results of IDC products (REB and SSEB). I compared the seismic data (origin time, Latitude, Longitude, Depth and magnitude) for some event in the International Data Center products REB (Reviewed Event Bulletin) and SSEB (Standard Screened Event Bulletin) with the data for same events from other International Seismic Data Centers like: EMSC (Euro-Med Seismological Centre),GFZ (German Research Center for Geosciences) , KOERI (KANDILLI Observatory and Earthquake Research Institute),JSO (Jordan Seismological Observatory),GII (Geophysical Institute of Israel) and others. I found that there isn't a big difference in the results especially in the ORIGIN TIME, LATITUDE, LONGITUDE and MAGNITUDE but there is a difference in the DEPTH. I am looking forward to study this case in near future to find the reason of this case; is it from the analysis algorithm or from the model velocity which is used in IDC or from travel time tables or from other logic reasons. This work needs a lot of time and great efforts hoping that I can find the suitable solution.

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