3.3-P21. Model Visualization for NET-VISA

NET-VISA is an open universe generative model for seismic event location which is currently being evaluated for use at the International Data Centre (IDC) of the Comprehensive Test Ban Treaty Organization (CTBTO). Underlying the model is a set of probability distributions which are learned from IDC bulletins, primarily the LEB and SEL3. NET-VISA explicitly models many parameters which have physical meaning, such as delays in travel time from one-dimensional earth models and azimuthal shifts as well as operational parameters such as the probability that detections will be made of a particular seismic phase at a particular station. Being able to look closely at the probability distributions inside of NET-VISA is not only an excellent way to learn how NET-VISA works, but it gives insight into the International Monitoring System (IMS) itself. An IDC website has been developed which makes it possible to view the NET-VISA model in detail. This Interactive Model Visualization (IMV) can be used as a training tool, a scientific portal and an educational tool. Its use for education is particularly important because of the frequent staff turnover at IDC. In this presentation, the IMV will be demonstrated live by projecting it onto a blank poster.

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