

Alexander Shashkin¹, Urtnasan Khukhuudei¹, Mark Prior¹, Nimar Arora², Stuart Russell³

¹CTBTO Preparatory Commission

²Bayesian Logic, Inc.

³University of California, Berkeley

•**Main motivation:** experts were concerned that NET-VISA, which retrains every week, might encounter errors during training, which could break a smooth operational flow. It was suggested, that NET-VISA could benefit from training on stations with ten or more years of data.

•**Proposed solution:** in the long-term prior model, we generate priors using data collected over approximately ten years. This approach captures the average behavior of the network and stations across a wide range of environmental conditions and configurations. Because the training period is so extensive, the resulting priors are typically more stable and reliable than those from the rolling prior model.

