



Pacific Northwest
NATIONAL LABORATORY

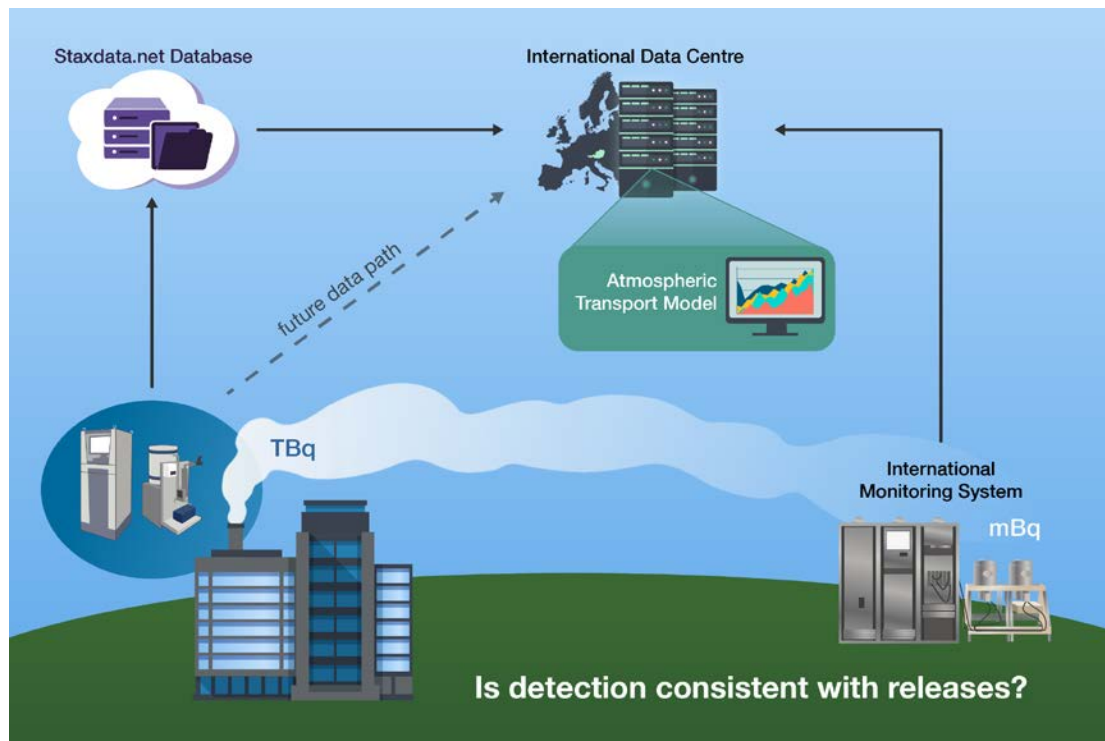
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STAX Project Status

The views expressed here do not necessarily reflect the opinion of the United States Government, the United States Department of Energy, or the Pacific Northwest National Laboratory

Video Topics

- ▶ Overview of the project in one sentence.
 - Understanding the xenon background by knowing strong source terms
- ▶ Voluntary participation from large xenon sources MIPF
 - Foreign and US
- ▶ Detectors currently deploy at IRE and ANSTO
- ▶ Two more being built by INVAP in ARG and VF from the Check republic
- ▶ Example data
- ▶ Data sharing and use



Concept Behind the STAX project

- Concept grew and developed from WOSMIP
- Measurement guidelines came from roundtable discussions
 - Further refined with discussions from NDCs
- Voluntary partnership with facilities

Currently Deployed Detector Systems

- ▶ Manufacture: Canberra
- ▶ Spectra formats: Modified PHD (STX 1.0)
- ▶ Results format: Modified AAR (ATS)
- ▶ State of health: Modified SOH



Future Hardware Providers

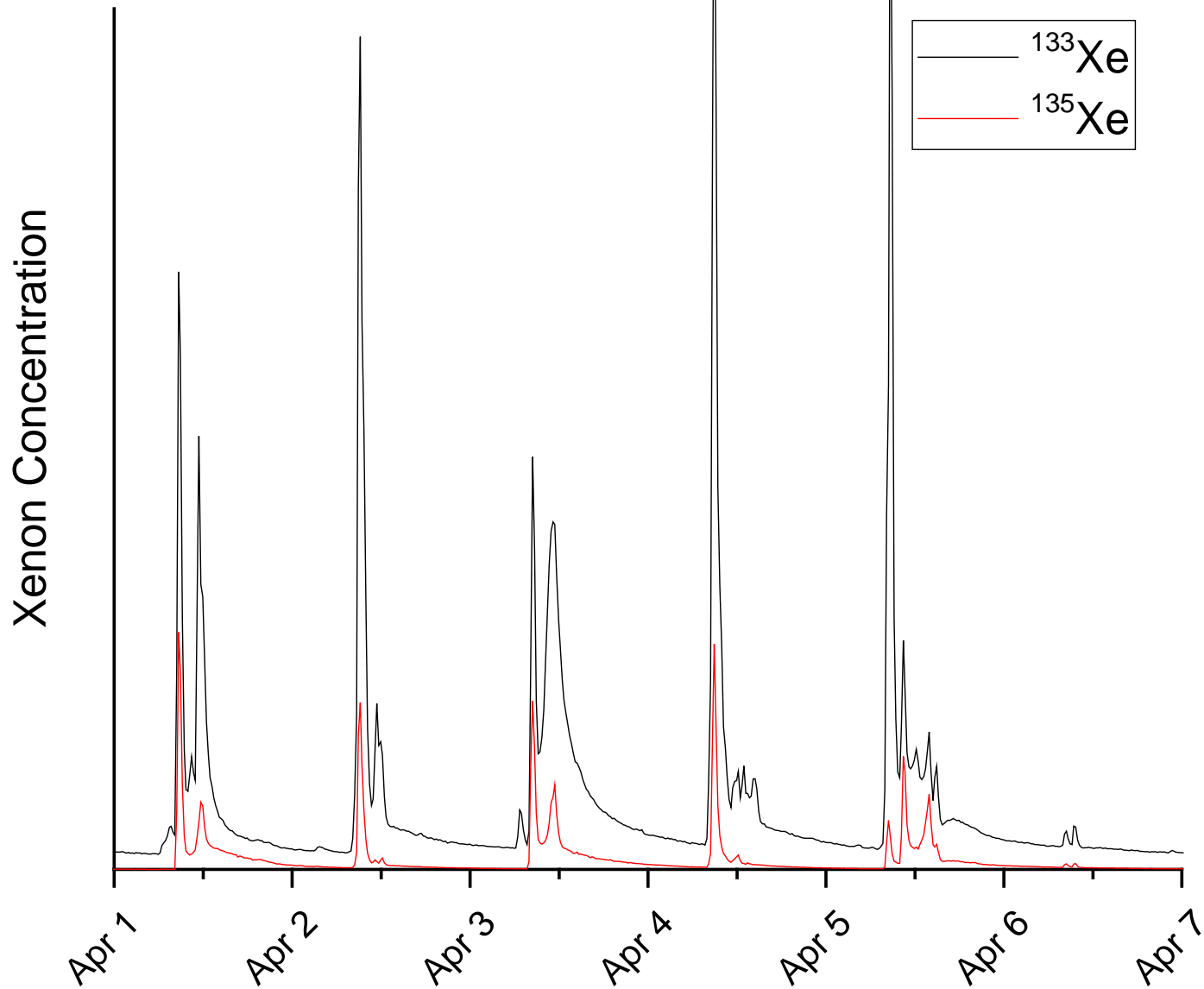
- ▶ INVAP STAX system
 - AEMi new generation



- ▶ VF Nuclear NGM-2000
 - Modification for STAX



Example Data - IRE



Summary

- ▶ The STAX project is partnering with isotope producers to install stack monitoring equipment at no expense to the facility
- ▶ This experimental network, which arose from discussions at WOSMIP, is a continuation of efforts to assist the CTBTO PrepCom and NDCs in monitoring for signatures from nuclear explosions
- ▶ Feedback from the CTBTO PrepCom and NDCs, end users of this data, is invaluable to inform what we hope will be an operational network beyond the initial 5 year experiment



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