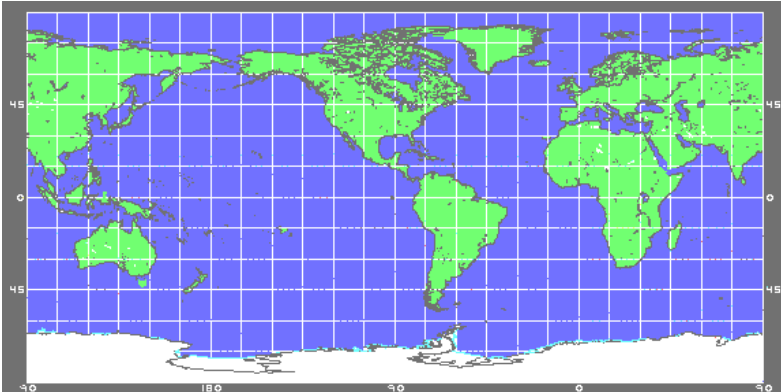


ENVIRONMENTAL SAMPLE ARCHIVE AND INTERNET DATABASE

EML maintains a unique and extensive archive of environmental samples for the Office of Nonproliferation Research and Engineering (NN-20) in the Office of Defense Nuclear Nonproliferation (NN-1). This archive is now accessible over the Internet at EML's Web Site (<http://www.eml.doe.gov>). A "user-friendly" interface allows for sample searches using either a form or a map search. Over 50,000 unique sample are present in the archive.



The samples were primarily collected in the EML environmental research programs listed below:

- **Soil Programs:** Radioactivity measurements on soil samples collected throughout the world from 1953 to the present
- **Surface Air Sampling Program (SASP):** Radioactivity measurements on surface air filter samples collected at a global network of sites from 1957 to the present
- **Global Strontium-90 Deposition Program:** Strontium-90 measurements on fallout ion exchange samples collected at a global network of sites from 1954 to the present
- **High-Altitude Sampling Program (HASP):**
 - **Project STARDUST:** Radioactivity measurements on air filter samples collected by aircraft in the stratosphere from 1957 to 1967
 - **Project AIRSTREAM:** Radioactivity measurements on air filter samples collected by aircraft in the upper troposphere and stratosphere from 1967 to 1983
 - **Project ASHCAN:** Radioactivity measurements on air filter samples collected by balloons in the upper stratosphere from 1957 to 1983
- **Acid-Rain Deposition Program:** Radioactivity measurements on lake sediment samples collected from 1979 to 1991
- **Diet and Bone Program:** Strontium-90 measurements on ashed samples of food and bone collected from 1969 to 1982

Sample Utilization:

- ▲ **Quality Control** - Test newly developed instruments and techniques
- ▲ **Nonproliferation** - Identify signatures of nuclear proliferation
- ▲ **Background** - Determine global variations of signatures
- ▲ **Forensics** - Geolocate samples of unknown origin



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