



UNOLS Research Vessels are Multi-Purpose Research Vessels that support both enhanced radioisotope science as well as natural abundance science.

Natural Abundance science is looking for radioisotope tracers in the *part per trillion* range. This is like looking for 1 grain of brown sand in 5 truckloads of tan sand.

It takes less than a single drop of enhanced isotope to RUIN Natural Abundance work.



Although the rad van generally contains the isotopes it is easier than you think to track radioisotopes outside the vans. To help avoid this, use:



Rad Van and Radioisotope Handling Best Practices

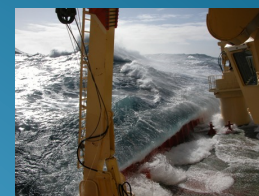


Within the Rad Van:

- Use proper PPE and change gloves frequently
- Use protective booties or have a dedicated pair of shoes for the Radvan.
- Change Bench-kote frequently
- Store personal items in a clean area
- Allow only authorized users into the rad vans
- Assume anything that has come into the rad van is hot and needs cleaning before removal

Before you Leave:

- Take your time! It takes less time to prevent contamination than it does to clean it up!
- Are you and all of your personal items clean of radioisotopes?
- If you must take radioisotopes out of the rad van:
 - Are the conditions appropriate for handling radioisotopes outside of the rad van?
 - Is your load manageable size for the conditions?
 - Are the radioisotopes in secondary containment?Your work practices affect others who use the ship.



Your work practices affect others who use the ship.

Let's work together to keep UNOLS RVs clean for everyone!