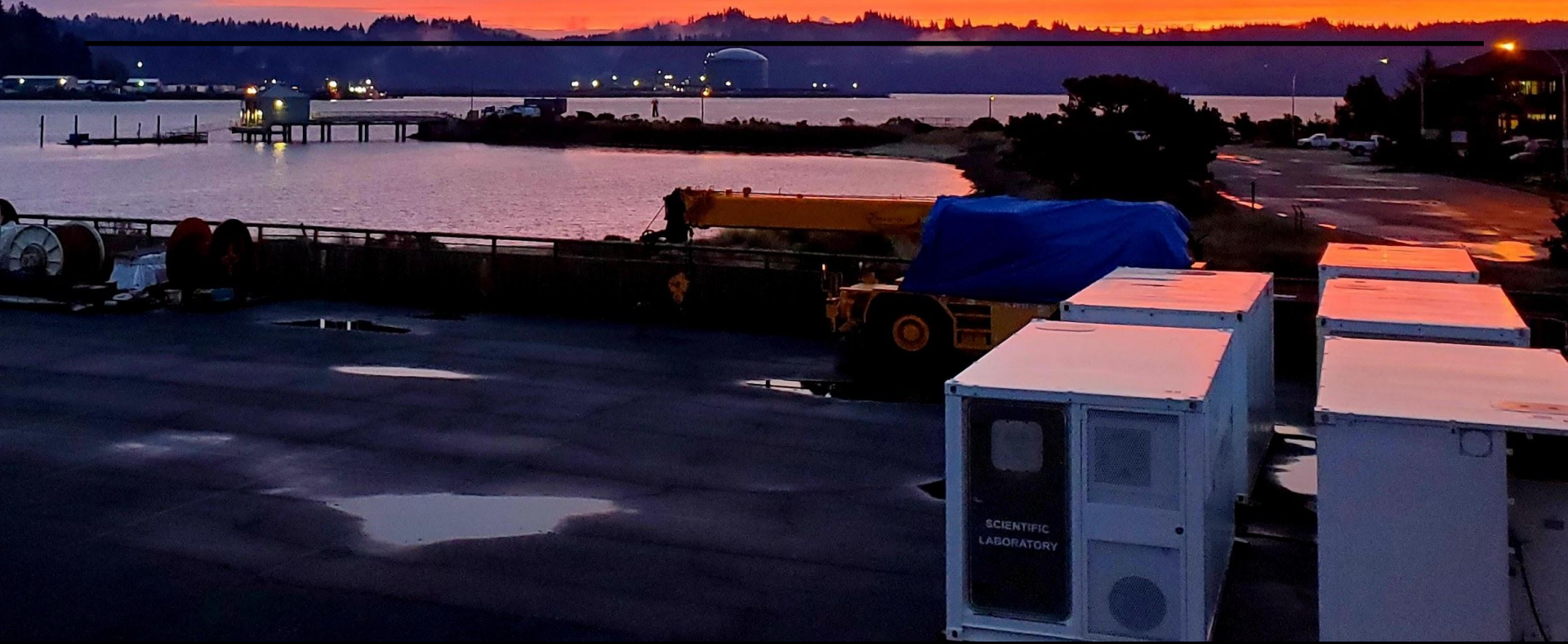
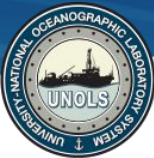




West Coast Van Pool

Christine Golden & Ethan Roth
Marine Operations - Oregon State University





Operations Overview

- **The West Coast Van Pool operates 8 portable laboratory units**
 - 3 Isotope Vans, 2 General Purpose Vans, 2 Cold Vans, and 1 Calibration Van
 - We're in the process of dispositioning the old Accommodations Van and the Calibration Van
- **The West Coast Van Pool recorded 415 operating days in CY24, all operational days were supported by NSF.**
 - WCVP supported 11 missions on 8 vessels
- **We are anticipating on operating 391 days in CY25, with 299 days supported by NSF and 92 supported by other agencies**
 - WCVP anticipates supporting 10 missions on 6 vessels

Large Projects Planned for 2025

- **Complete Refurbishment of GP-2:** WCVF has selected one or two vans to repair any damages and repaint labs for the past 4 years, GP-2 is one of the last vans on the list. R-4's interior has been completed and is going through final outfitting.



GP-2 Exterior waiting for decal application



R-4 Exterior completed



R-4 structural interior completed, waiting for arrival of equipment to complete lab outfitting



Large Projects Planned for 2025

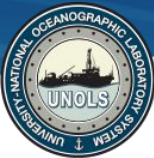
- **Review and Update Electrical Work on Vans:** A power distribution issue was noted during a cruise using an Isotope Van earlier this year.
 - The A/C unit and the water heater were wired to the same breaker. Although the A/C and the water heater were not used in tandem, and the issue was resolved onsite, the West Coast Van Pool is noting this issue as a reason to review the power distribution in all labs.
 - In addition to reviewing the power distribution, salt corrosion is a continuous issue in the labs and updating deteriorated connections is another priority.

Troubleshooting, Repairs & Labkeeping

Hidex LSC Units:

- There's a noted issue with the arm inside the counter picking up the vials for processing while in a heavy sea state. It's recommended that when in transport, the arm inside the unit is zip tied in place until loaded onto the ship and lab is set up for use – we are working on implementing this procedure prior to transport-heavy requests. Please read the updated Standard Operating Procedures guide provided in the labs or reach out to the West Coast Van Pool for more information.
- There are less issues overall when users are processing with 20mL vials instead of 7mL.





Troubleshooting, Repairs & Labkeeping

- **C2 Dehumidification Repair**

- Currently repairing the dehumidification system in C2, which is known to experience issues with the evaporator coils icing up
 - Replacing the upper coil dampener, which experienced damage during shipment
 - The original fan for the dehumidifier did not have a high enough volume of airflow for the size of the system, a new fan with a higher CFM is being installed.
- Evaporator coil icing and refrigerant leaks are identified issues associated with the complexities of operating sensitive system that are designed for confined parameters in harsh environments. We continue to ensure cold vans are routinely serviced in Newport after use and be proactive on replacing parts that suffer damage from movement and saltwater corrosion.



Troubleshooting, Repairs & Labkeeping

- **Housekeeping Notes (or Labkeeping):**

- Please be sure to read and adhere to van policies and procedures provided in the portable labs and on the website, and complete evaluation forms after use.
 - Policies and procedures are there to assist and protect users. Help us ensure that we're supporting safe science at sea!
- Please make sure to remove waste, secure interior, stow power cables in the van, and check cable and vent covers after use.
- Ask us questions! We're here to support you.



Thank you!



Visit the West Coast Van Pool at
<https://ceoas.oregonstate.edu/west-coast-van-pool>