

Island Mapping of Chloride Deposition Rate

Principal Investigator:

Professor Ian Robertson

Project Sponsor:

Paul Santo

Need:

Identify areas of Oahu that need corrosion protection for roads and infrastructure

Objective:

Monitor atmospheric chloride deposition at 50 selected sites on Oahu to develop map of chloride deposition rates

Duration:

August 1, 2005 – January 31, 2007

Cost:

\$99,000

Update:

- Selected 50 field station locations based on prior corrosion studies on Oahu and wind directionality study performed by Martin and Chock.
- Drafted interim report based on two related corrosion programs at UH. These results will be used to compare with future data collected from this project
- Fabricated 50 field stations that are ready for installation and to start monitoring.
- Currently working on license agreement between UH and City & County of Honolulu to allow for use of street light poles to support monitoring stations.
- Will apply for no-cost extension to allow for field station deployment and one-year monitoring period.