

Salton Sea Hydrogen Selenide Air Sampling Project Abstract

Farmer, J. C.; Garcia, S.; Horton, B.; Pichardo, M.; Pulido, J. T.

College of the Desert

Abstract

Numerous studies regarding the levels of selenium species within the waters of the Salton Sea have been conducted, indicating that a layer of selenium coats the bottom of the lake. We intend to study whether selenide species are present in the air around the Salton Sea, and compare samples to those taken in Palm Desert, CA. During the course of the study we will be using glass cold traps, ion chromatography which separates ions and polar molecules based on their attraction to the ion exchanger and Fourier-Transform Infrared Spectroscopy to obtain an infrared spectrum of absorption.