

## PRELIMINARY CRUISE REPORT

U.S. Dept. of State CRUISE No.:	F2015-054
SHIP NAME:	<i>SSV Robert C. Seamans</i>
OPERATING INSTITUTE OR AGENCY:	Sea Education Association
PROJECT TITLE:	Sea Cruise S-264
CRUISE DATES (INCLUSIVE):	20 February 2016 – 25 March 2016

CHIEF SCIENTIST:	
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CLEARANCE COUNTRIES:	New Zealand
FOREIGN PARTICIPANTS:	Ben Harden (UK), Justin Gregory (New Zealand)

DESCRIPTION OF SCIENTIFIC PROGRAM (include page-sized chart showing cruise track):
<p>The research undertaken on this cruise fell under the following broad categories:</p> <ol style="list-style-type: none"><li>1. Biological studies of zooplankton biogeography.</li><li>2. Distribution of phytoplankton and related nutrients in the surface ocean.</li><li>3. Physical oceanography of the region covered by the cruise track.</li><li>4. Surface and subsurface pH and Alkalinity</li></ol> <p>In support of these projects, we conducted the following station work:</p> <ol style="list-style-type: none"><li>1. Neuston plankton tows – 33</li><li>2. Phytoplankton samples from filtered seawater - 11</li><li>2. Deep (~100-200 m) meter nets tows - 7</li><li>3. Hydrocast stations for sampling chlorophyll a, nitrate and phosphate concentrations, pH, and Alkalinity, with on-board CTD profiles – 7</li><li>4. Additional CTD salinity/temperature/depth/dissolved oxygen/ downwelling light/ <i>in situ</i> chlorophyll a profiles – 11</li><li>5. RBR CTD profiles salinity/temperature/depth – 9</li><li>6. Shipex sediment grabs - 2</li><li>7. Surface Stations with bucket sampling for chlorophyll a, nitrates, phosphates, pH, and alkalinity – 59</li><li>8. Continuous flow-through measurements of chlorophyll a fluorescence, temperature, salinity, CDOM, turbidity.</li><li>9. Continuous bottom depth and oceanic currents measurements.</li></ol>

SCHEDULE OF DATA DELIVERY:	
Data Description	Date of Expected Delivery to Dept. of State
Final cruise report and electronic access to archived data.	25 March 2017
Data summary, station locations	25 March 2017

**CRUISE TRACK**  
**Sea Education Association Cruise S-264**

Cruise Track

