Hydrologic and Geomorphic Changes to Southern California Estuaries and Lagoons During Episodic Events Associated With the 2015-2016 El Niño: Insight to Potential Future Response to Sea Level Rise

SCC WRP - lead
UCSD/Scripps – co-lead
USGS
Tijuana NERR
Objectives

Improve our understanding of the effect of large storms on southern California coastal lagoon morphology and hydrology

Gain insight into how these systems may respond to future sea level rise and associated large coastal storms

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Project Field Sampling Protocols: October 15, 2015

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# Core Monitoring Locations

<table>
<thead>
<tr>
<th>Perennially Open</th>
<th>Intermittently Open</th>
</tr>
</thead>
<tbody>
<tr>
<td>Newport Bay</td>
<td>Tijuana</td>
</tr>
<tr>
<td>Bolsa Chica</td>
<td>Los Penasquitos</td>
</tr>
<tr>
<td>Seal Beach</td>
<td>Malibu Lagoon</td>
</tr>
<tr>
<td>Alamitos Bay/Los Cerritos</td>
<td>Santa Margarita</td>
</tr>
<tr>
<td>Batiquitos</td>
<td>Mugu Lagoon</td>
</tr>
<tr>
<td>San Dieguito</td>
<td>San Mateo</td>
</tr>
</tbody>
</table>

~50 Opportunistic sites associated with willing partners
Upper Newport Back Bay
(Science Center)