San Francisco Bay Conservation and Development Commission (BCDC)

Regional Shoreline Adaptation Plan

An implementing project of BAY ADAPT

Companion Guide | Regional Shoreline Adaptation Plan ***Atlas***

The Regional Shoreline Adaptation Plan (RSAP) is a regional plan to address rising sea levels in San Francisco Bay. Local governments in the Bay Area are required to develop Subregional Shoreline Adaptation Plans (Plans), per SB 272.

What is the RSAP Atlas?

The RSAP Atlas (Atlas) is an online mapping tool built to support local governments, public agencies, consultants, and communities in creating Plans that comply with RSAP requirements. It includes region wide data on coastal flood hazards, community vulnerability, existing conditions, Strategic Regional Priorities, and nature-based adaptation suitability.

How does the Atlas relate to the RSAP?

- Provides access to data that complies with RSAP Guidelines
- Contains all required RSAP Coastal Flood Hazards and Sea Level Scenarios
- Summarizes Minimum Category and Asset exposure to Coastal Flood Hazards

Who is the Atlas for?

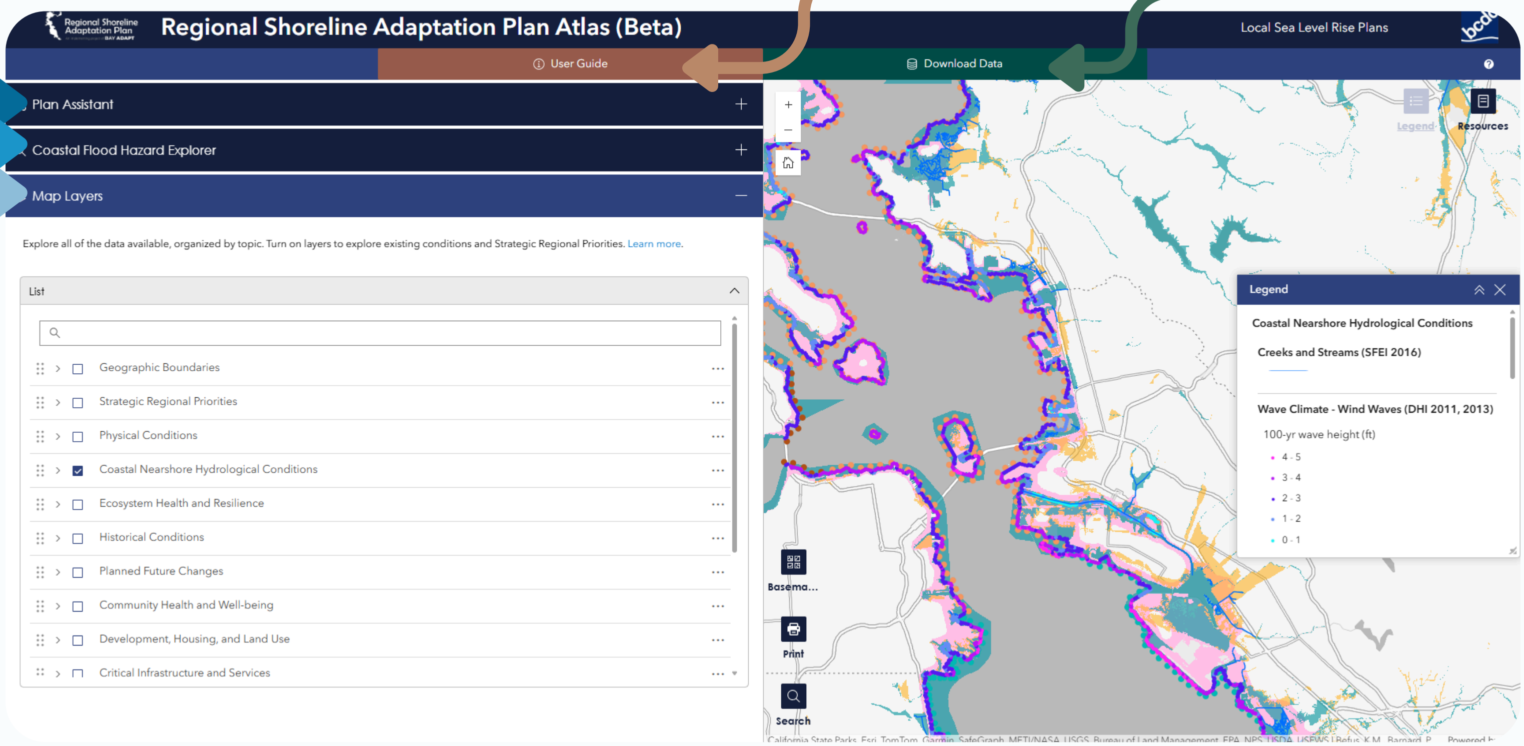
- Local Governments and public agencies developing Plans
- Consultants supporting local planning processes
- Community based organizations partnering in resilience planning

What can you do with the Atlas?

- Map how coastal flood hazards might affect your community
- Generate RSAP Plan submittals, including maps, tables, and summaries
- Download GIS data for technical users

How do you navigate the RSAP Atlas?

- **User Guides**: Step by step guides to help you navigate the RSAP Atlas
- **Data Downloads:** Downloadable GIS data for technical users
- **Explore Map**: Tools to help visualize data and generate Plan submittals
  - **Plan Assistant:** Create maps, tables, and summaries needed in a Plan
  - **Coastal Flood Hazard Explorer**: Explore what could be at risk from sea level rise
  - **Map Layers**: Visualize all of the available data, organized by RSAP topic

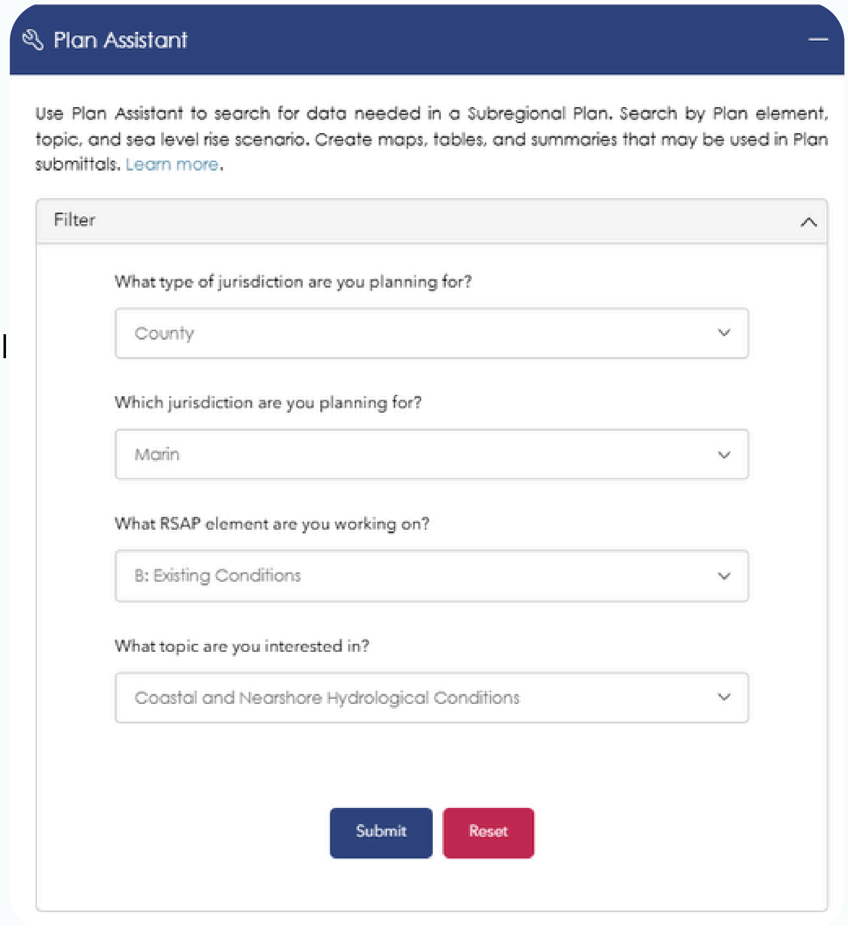


What does the Atlas NOT do?

- Conduct vulnerability assessments or design adaptation strategies
- The Atlas includes about 65% of the data required in the RSAP Guidelines, but does not include ALL required data for a Plan
- Local governments are responsible for ensuring that any data and/or information used in the development of a Plan is accurate and complete

How does the Atlas help me create a Plan?

- The Plan Assistant helps you find the data needed to inform your Subregional Plan.
- You can search by jurisdiction, RSAP Plan Element, topic, and sea level rise scenario.
- The Atlas provides data to support components of Elements A, B, and C. This information can be used to inform other RSAP requirements.



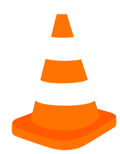
How does the Atlas inform RSAP Elements A, B, and C?

Element A: Planning Process

- Define Planning Area
- Identify partners
- Explore coordination opportunities
- Map vulnerable communities

Element B: Existing Conditions

- Map existing conditions
- Identify Strategic Regional Priorities
- List data gaps
- Identify nature-based adaptation suitability

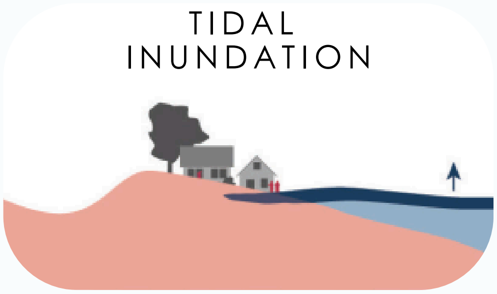


Element C: Vulnerability Assessment

- Visualize flood hazards
- Analyze flood exposure
- Summarize key exposure findings

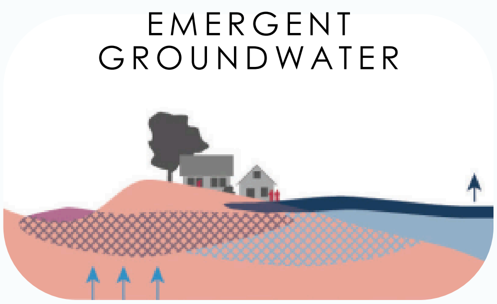
What coastal flood hazards are in the Atlas?

The RSAP Atlas contains all required Coastal Flood Hazards and Sea Level Rise Scenarios. The Coastal Flood Hazard maps combine data from different sources. The RSAP requires addressing four key hazard types in Plans: Tidal Inundation, Storm Surge, Emergent Groundwater, and Shallow Groundwater.

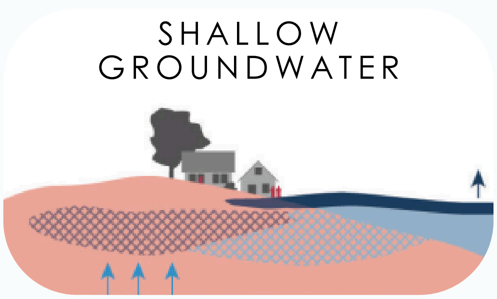


Tidal Inundation is the permanent flooding from sea level rise as high tides move farther inland. The RSAP Coastal Flood Hazard mapping represents the future extent of mean higher high water (MHHW).

Storm Surge is temporary flooding generated by high winds and low atmospheric pressure in the presence of a storm. The RSAP Coastal Flood Hazard mapping represents the 100-year storm (also considered as having a 1% chance of occurring in any given year).



As sea levels rise, so will groundwater. Emergent groundwater is groundwater that rises to the surface and floods land from below.



Shallow groundwater is rising groundwater that is within 9 ft of the surface, threatening buried infrastructure and mobilizing contaminants.

The RSAP Atlas is in Beta. How is it working? We want to hear from you!
Reach out to GIS@bcdc.ca.gov with your feedback or questions.

THE RSAP ATLAS WAS MADE POSSIBLE WITH FUNDING AND TECHNICAL SUPPORT FROM MANY PARTNERS AND AGENCIES

California Ocean Protection Council

Coastal Conservancy State of California

SFEI San Francisco Estuary Institute