

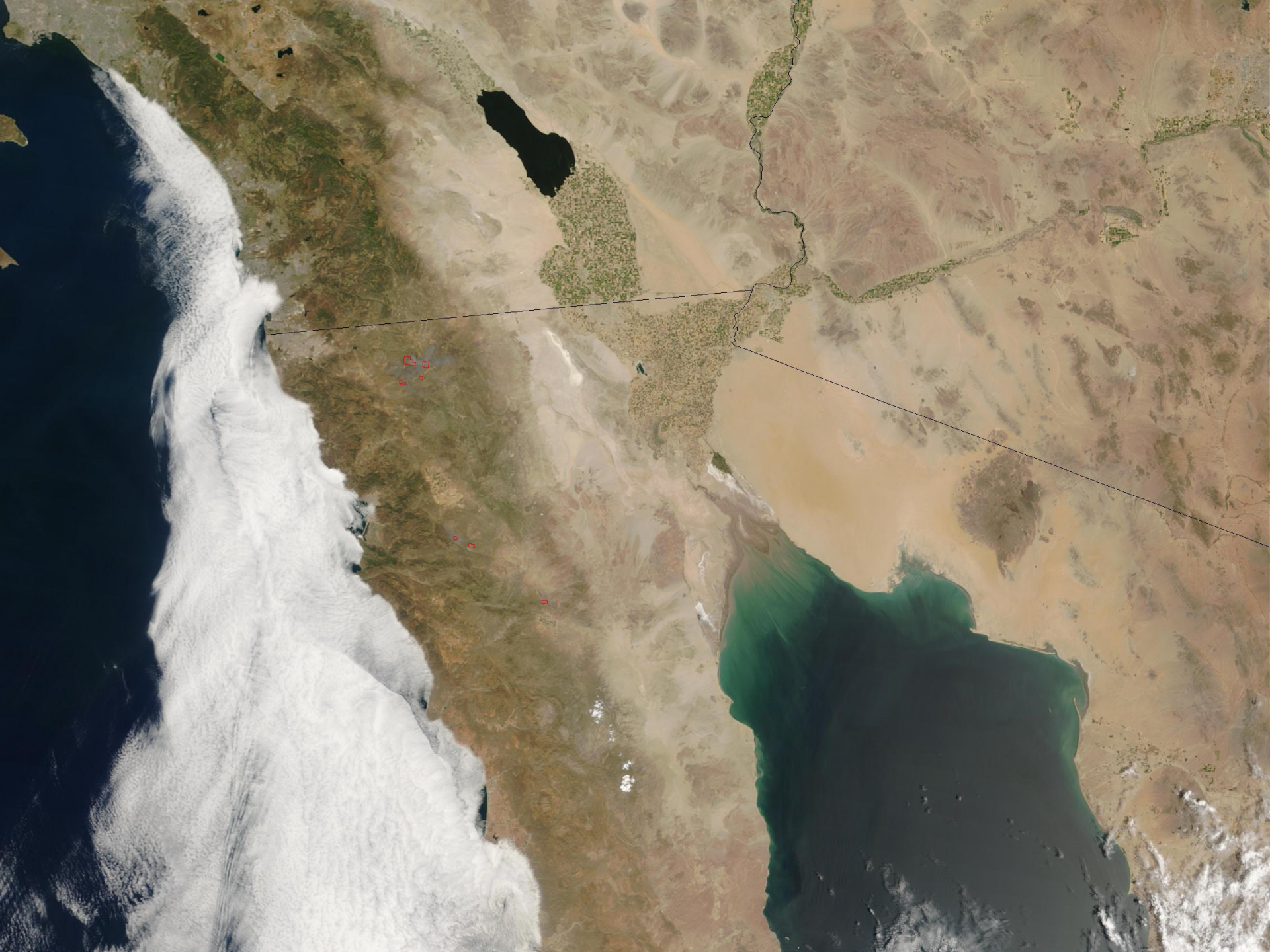


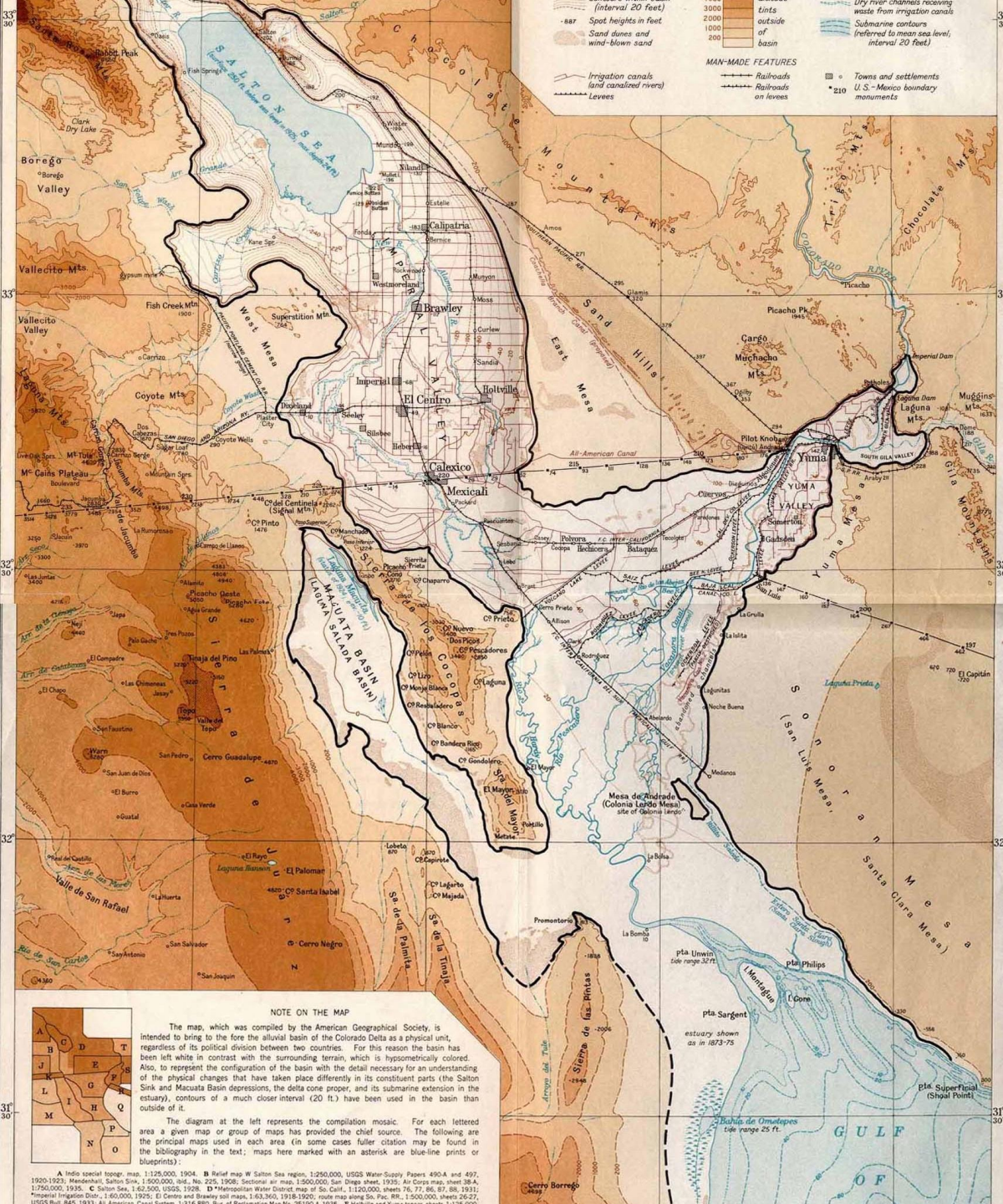
Restoration and Resiliency in the Colorado River Delta

Osvel Hinojosa-Huerta

Pronatura Noroeste







Colorado River Delta

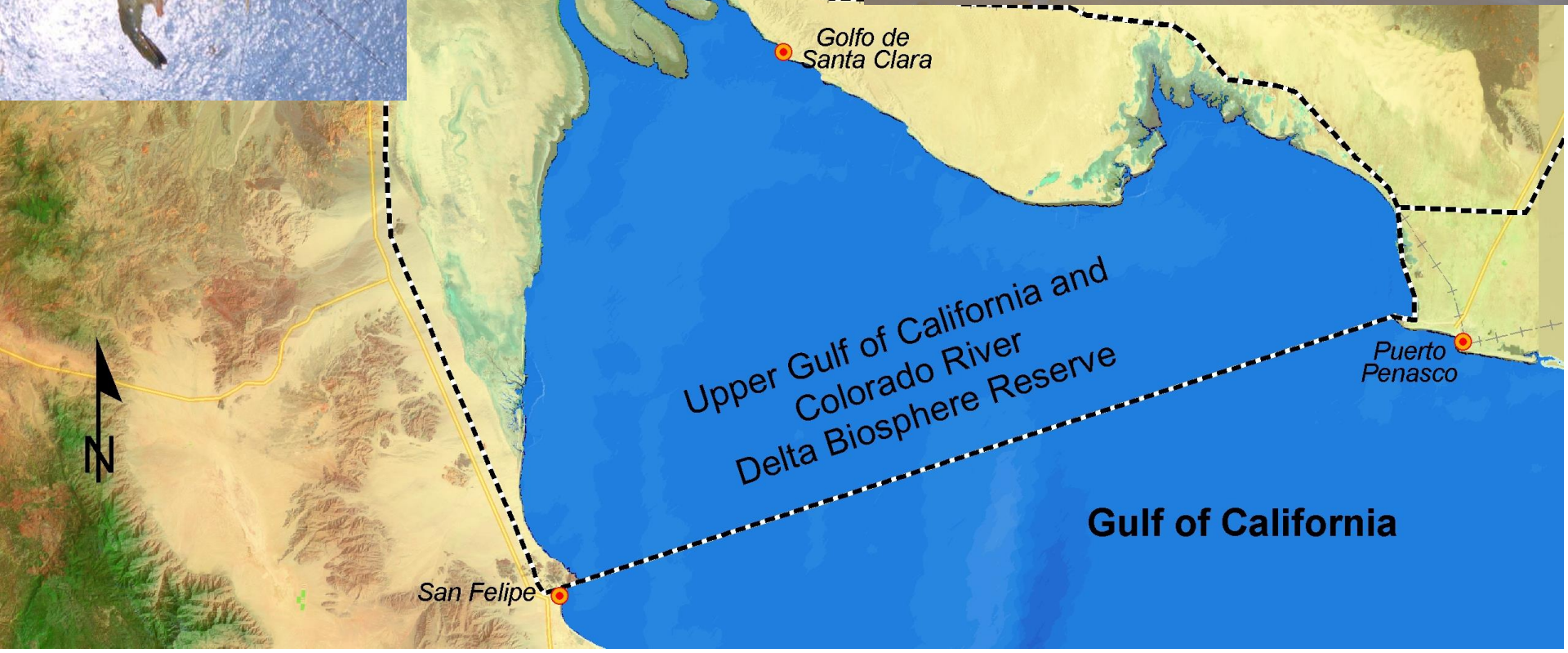
400,000 Ha

19,000 Mm³ of water per year to the Gulf of California

River influence: 65 km into the sea

Extensive estuary (500,000 Ha)

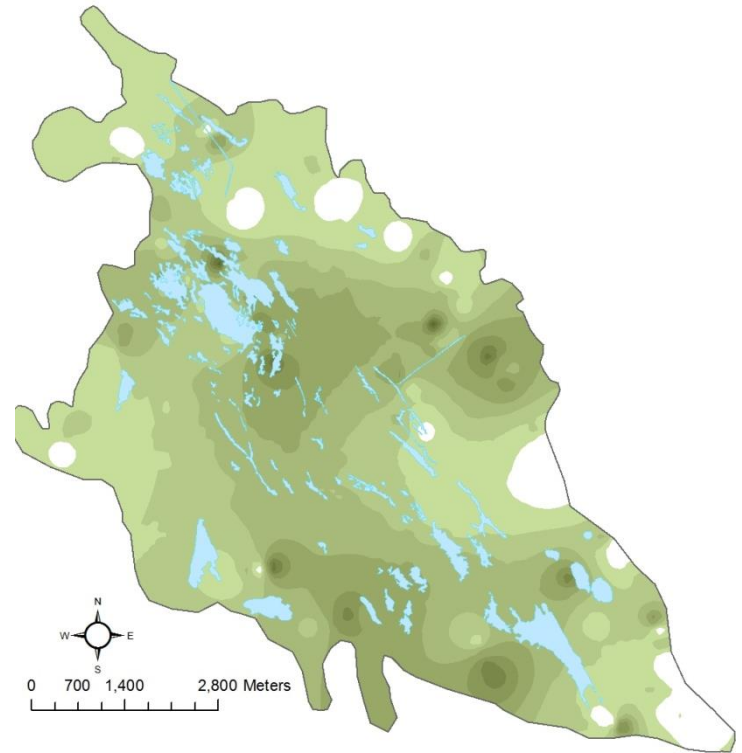
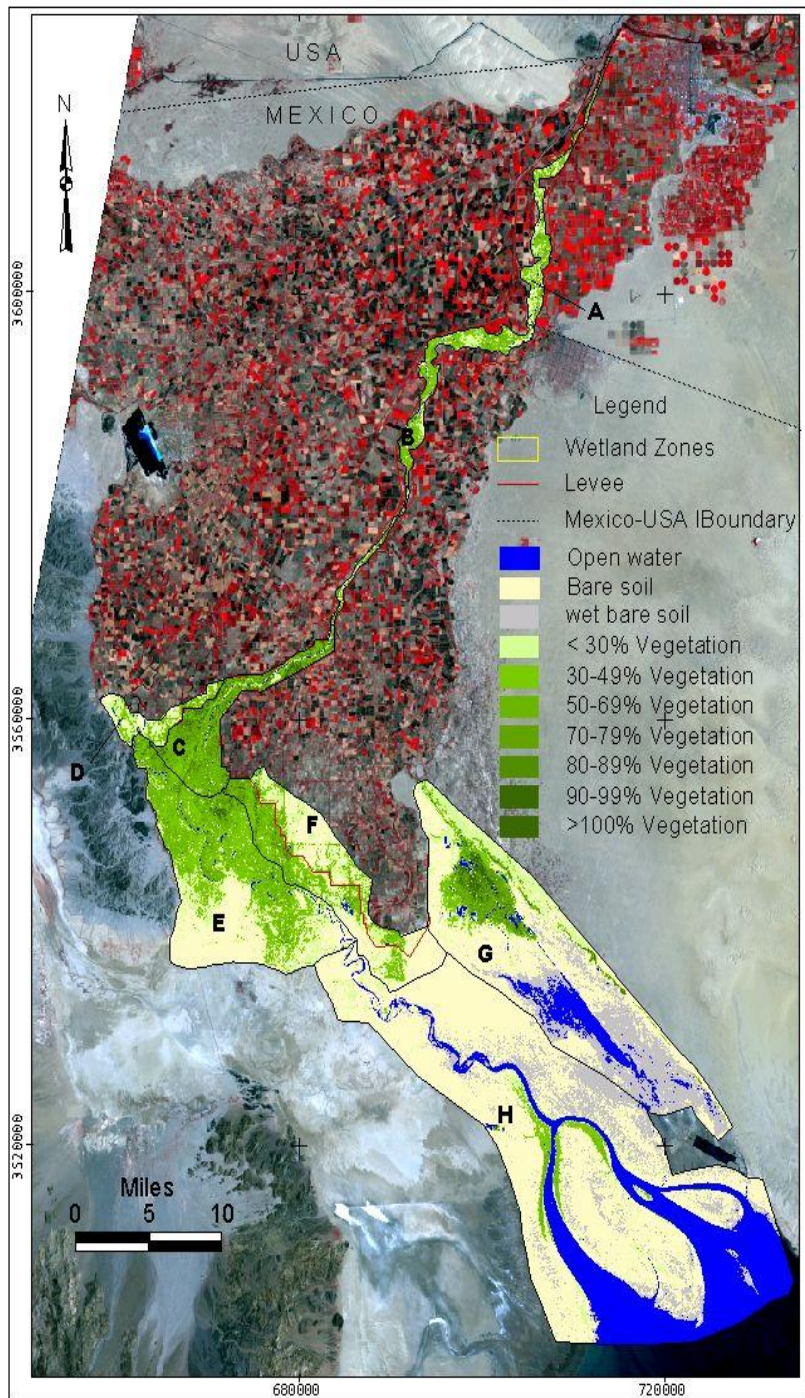




Restoration in the Colorado River Delta

- Research, planning and identification of needs for the environment
- Public policy and outreach
- Implementation of tools







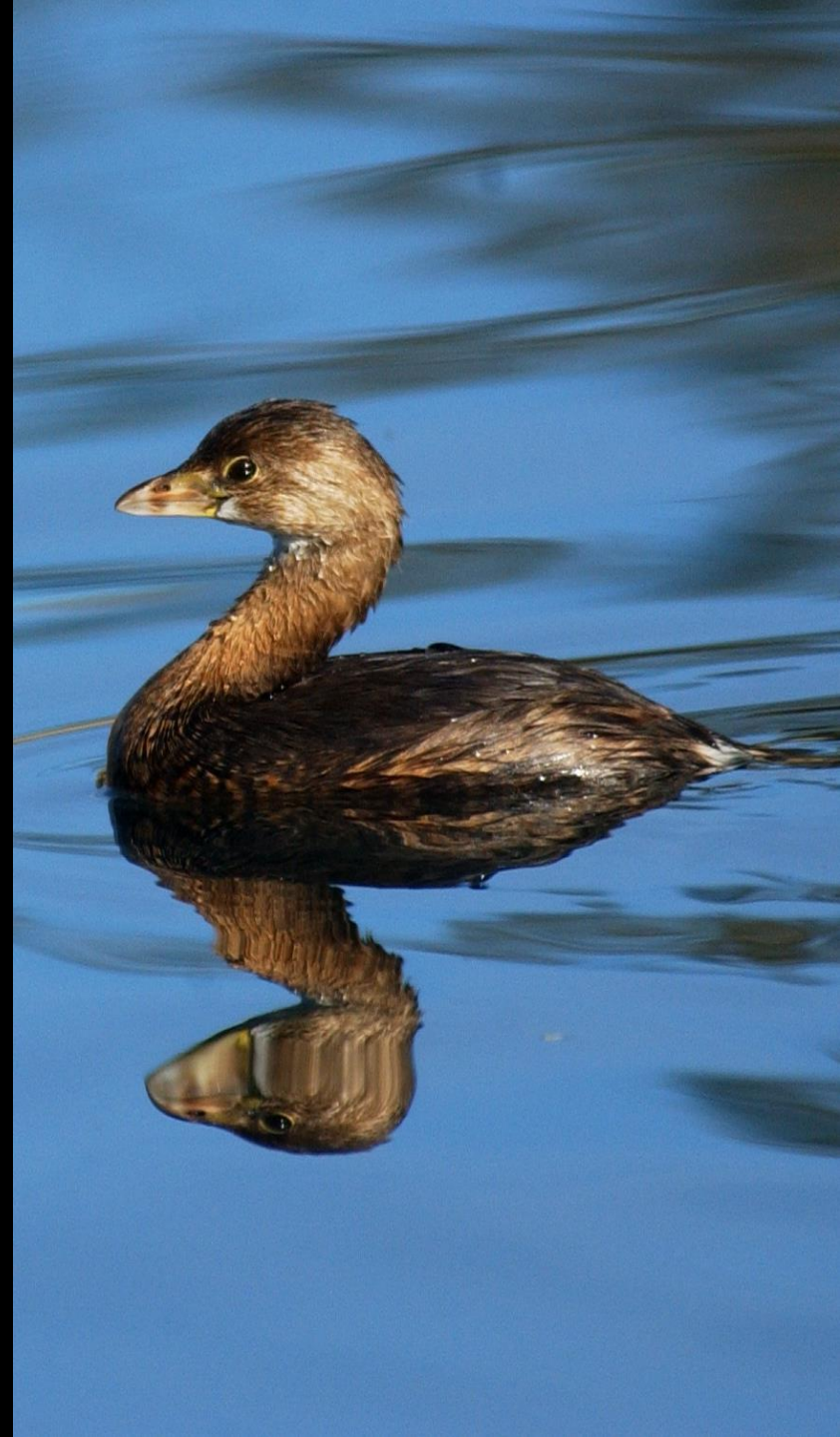
CONSERVATION PRIORITIES
IN THE
COLORADO RIVER DELTA
MEXICO AND THE UNITED STATES



Initiative for the Restoration of the Colorado River Delta

Improve and maintain
environmental conditions at
priority sites

- Biodiversity
- Community livelihoods



Key strategies

- Outreach and community involvement
- Binational negotiations
- Water for the environment
- Protection of key sites
- Restoration



Public Policy and Binational Negotiations

- Creation of the Biosphere Reserve and Ramsar Sites
- Minute 306 of the International Water Treaty: binational collaboration for the restoration of the delta.
- Integration of the Binational Colorado River Cooperative Process within the framework of CILA/IBWC
 - Environment
 - Participation of multiple stakeholders

Water Allocation:

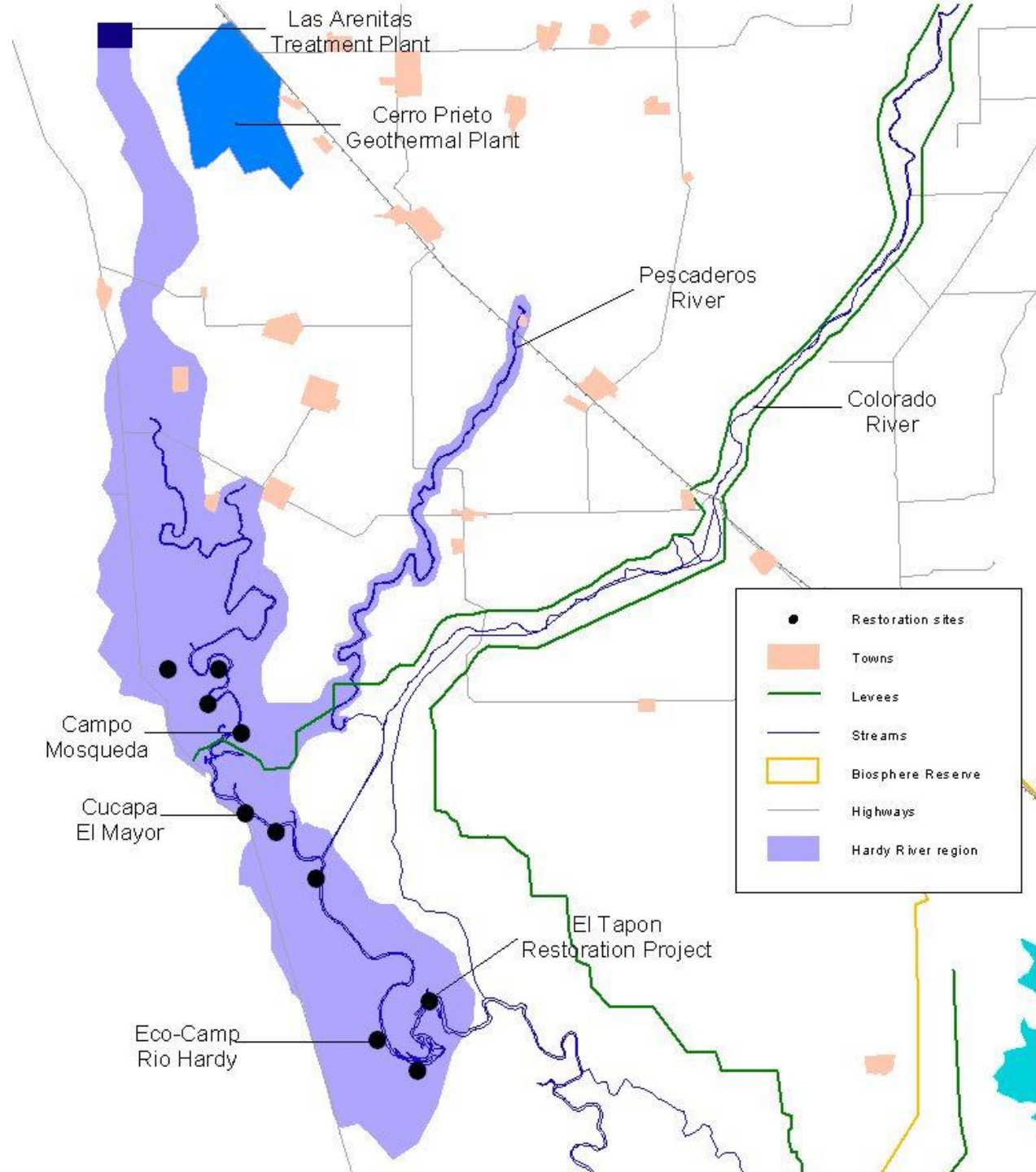
- Voluntary, market-based strategies
- Acquisition of water rights in the Mexicali Valley
- Water Trust for the Restoration of the Colorado River Delta



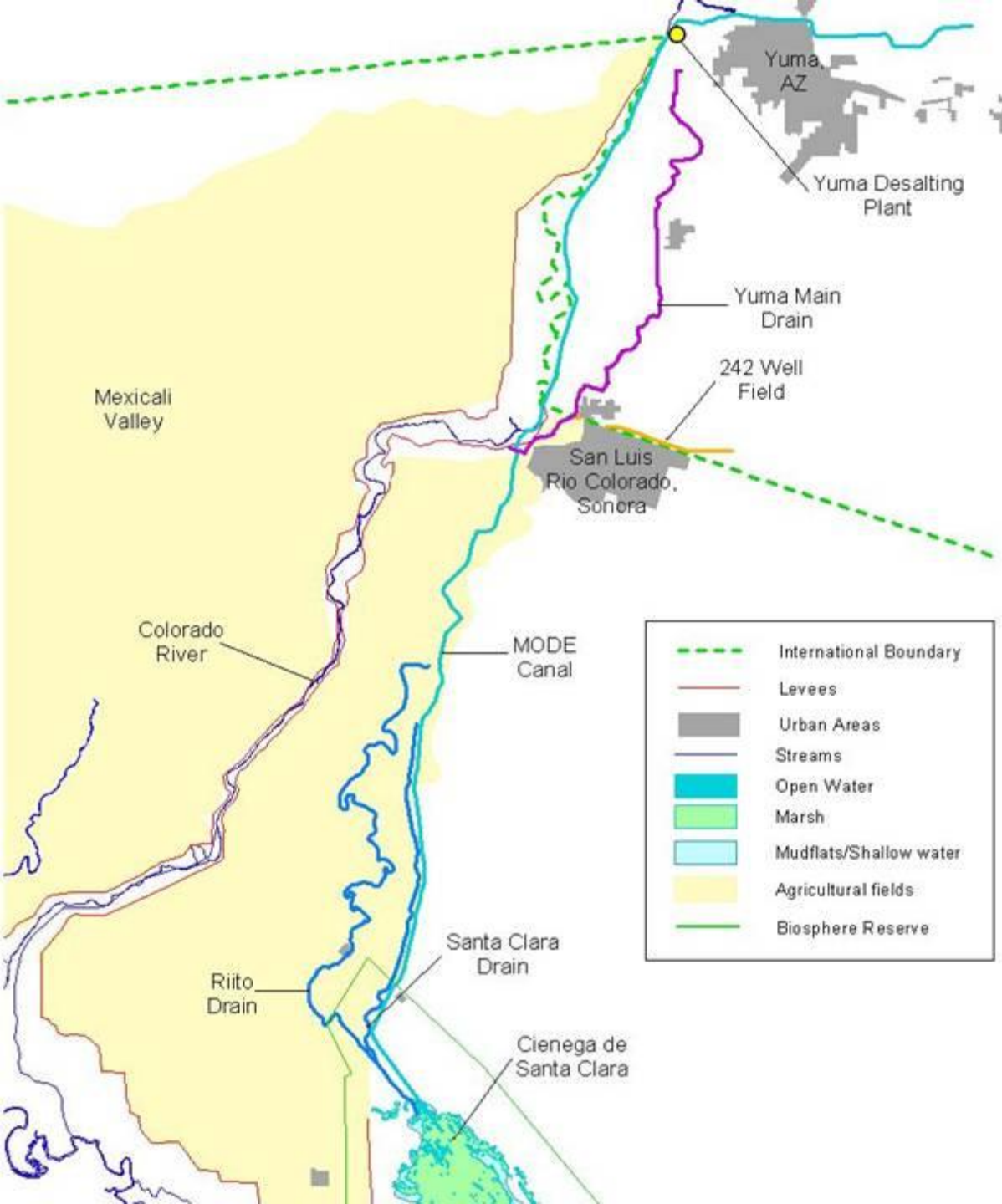
Las Arenitas Wastewater Treatment Plant

30% of the
effluent
guaranteed for
instream flows in
the Hardy River
(18 K afy)

Duplicates the
flow in the river





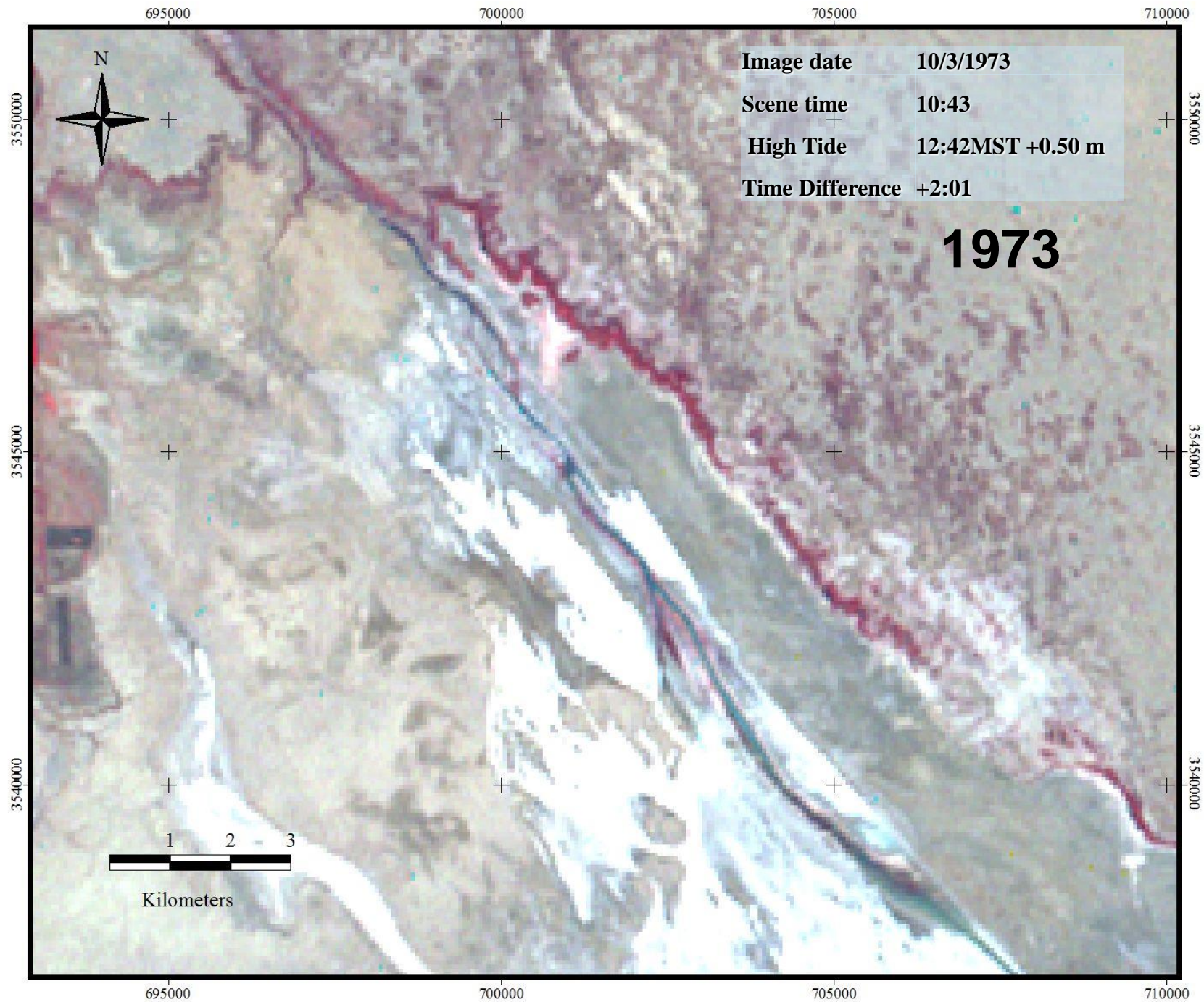


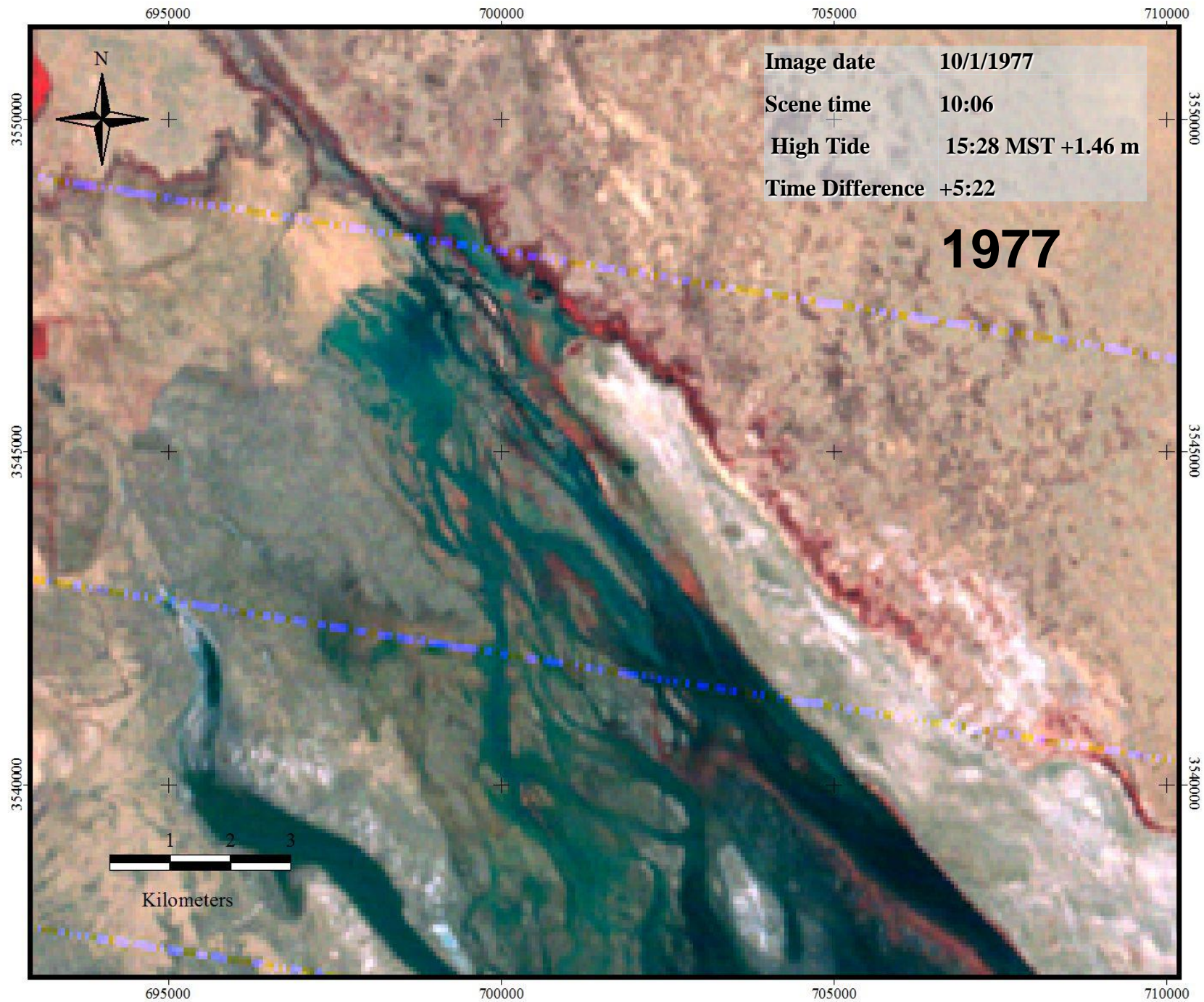
Cienega de Santa Clara:
40,000 acres

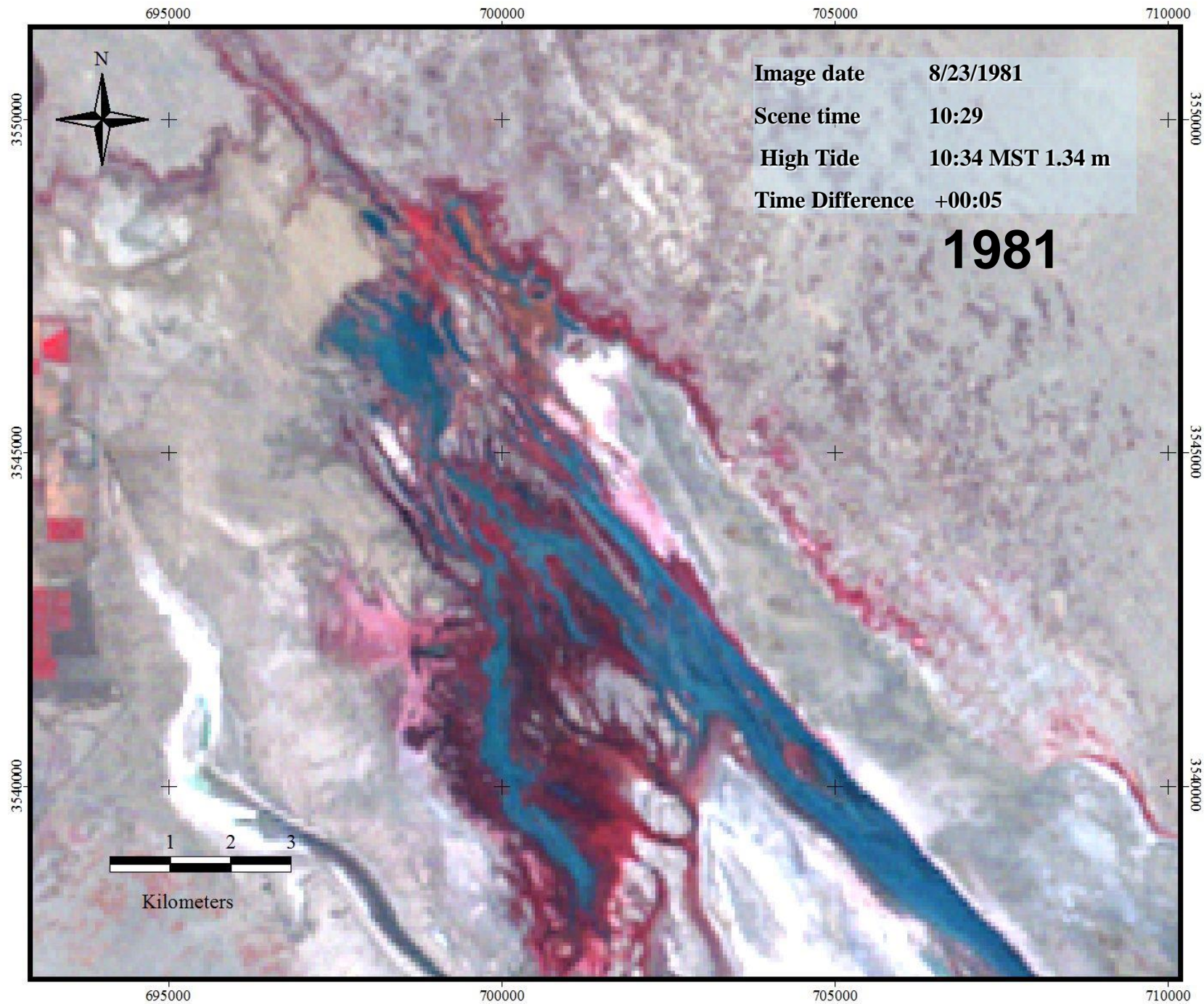
90% of its water is agricultural drainage from the Welton and Mohawk valleys in Arizona

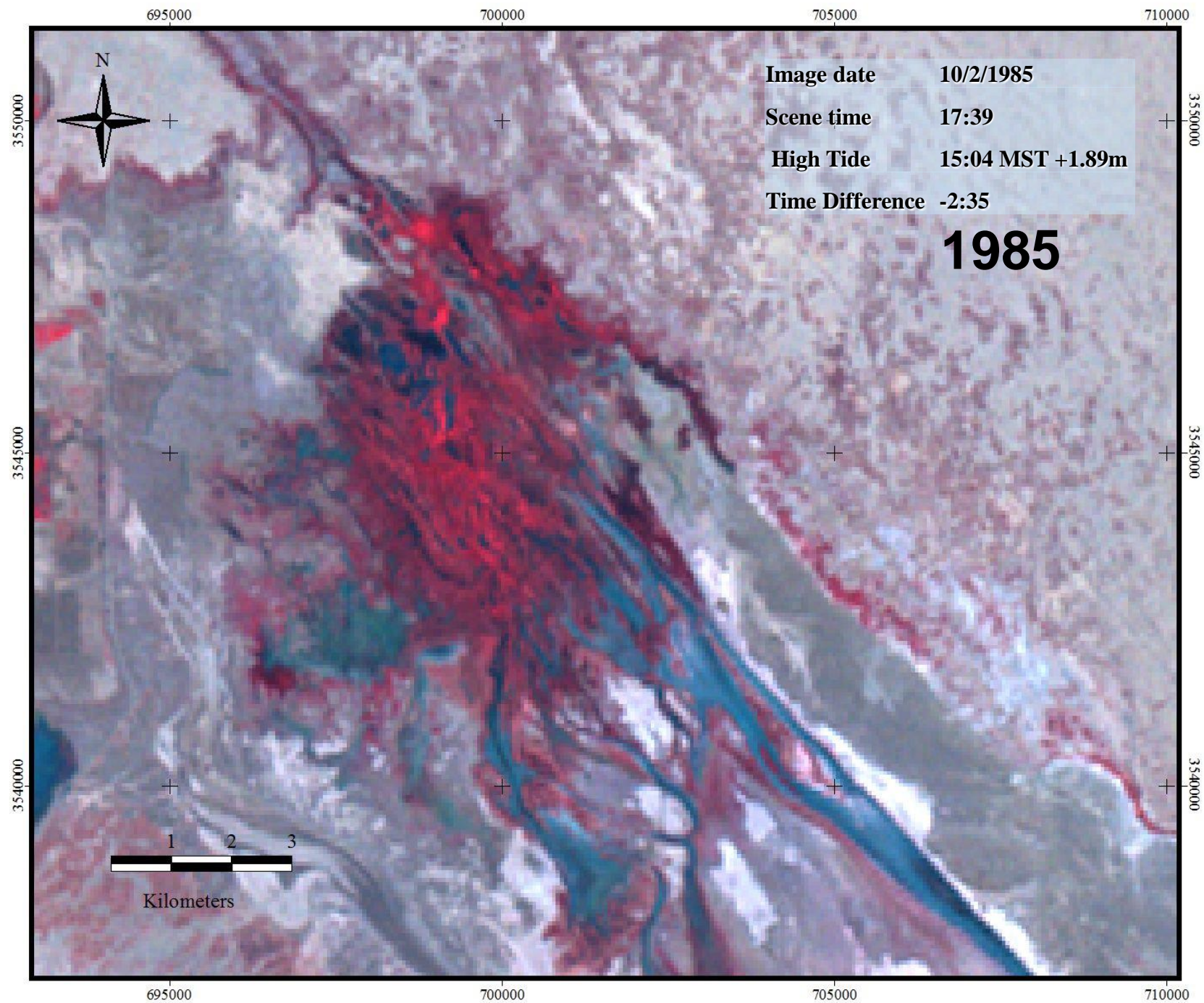
MODE Canal

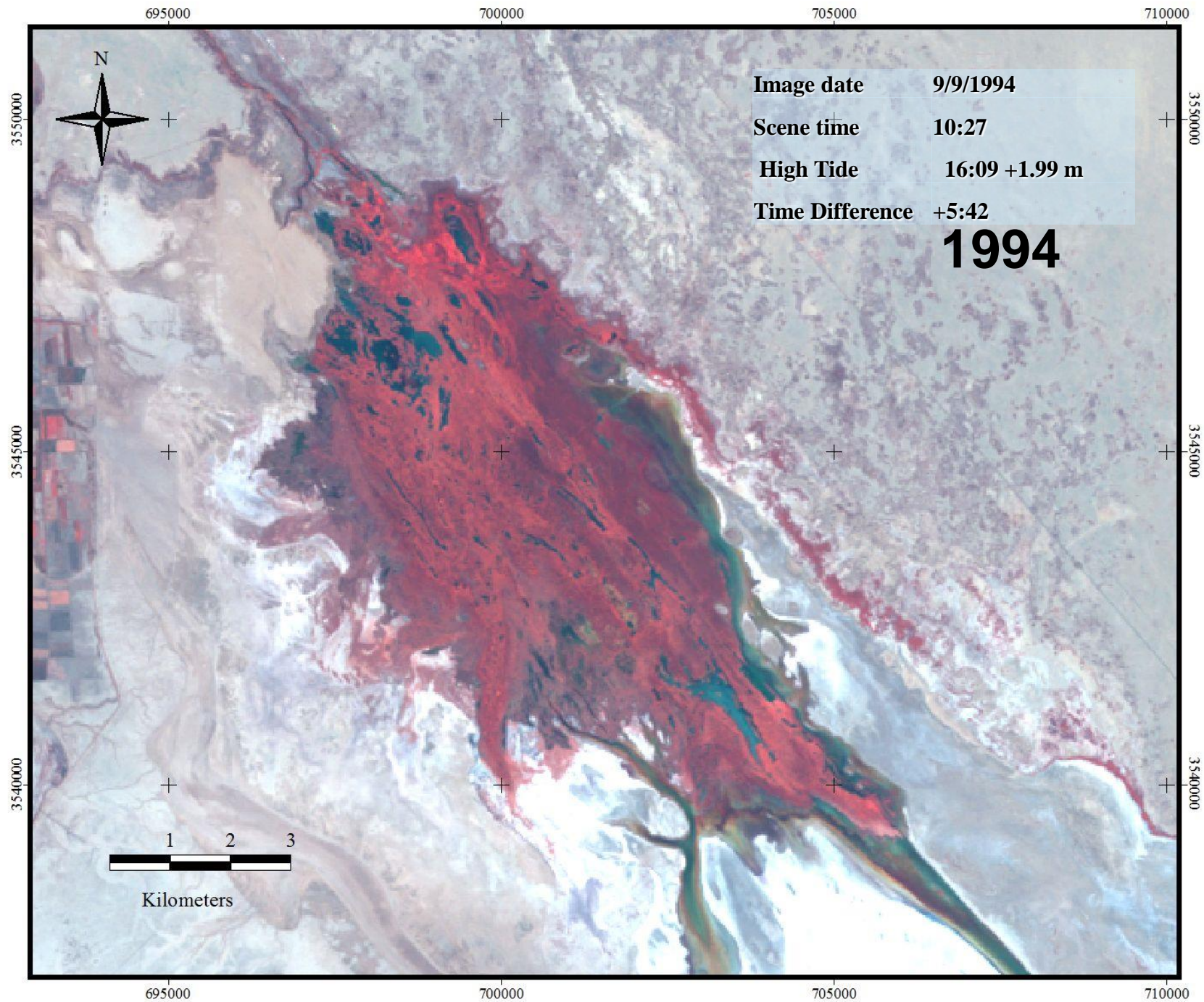
This same water has been targeted to be used by the Yuma Desalting Plant in Arizona

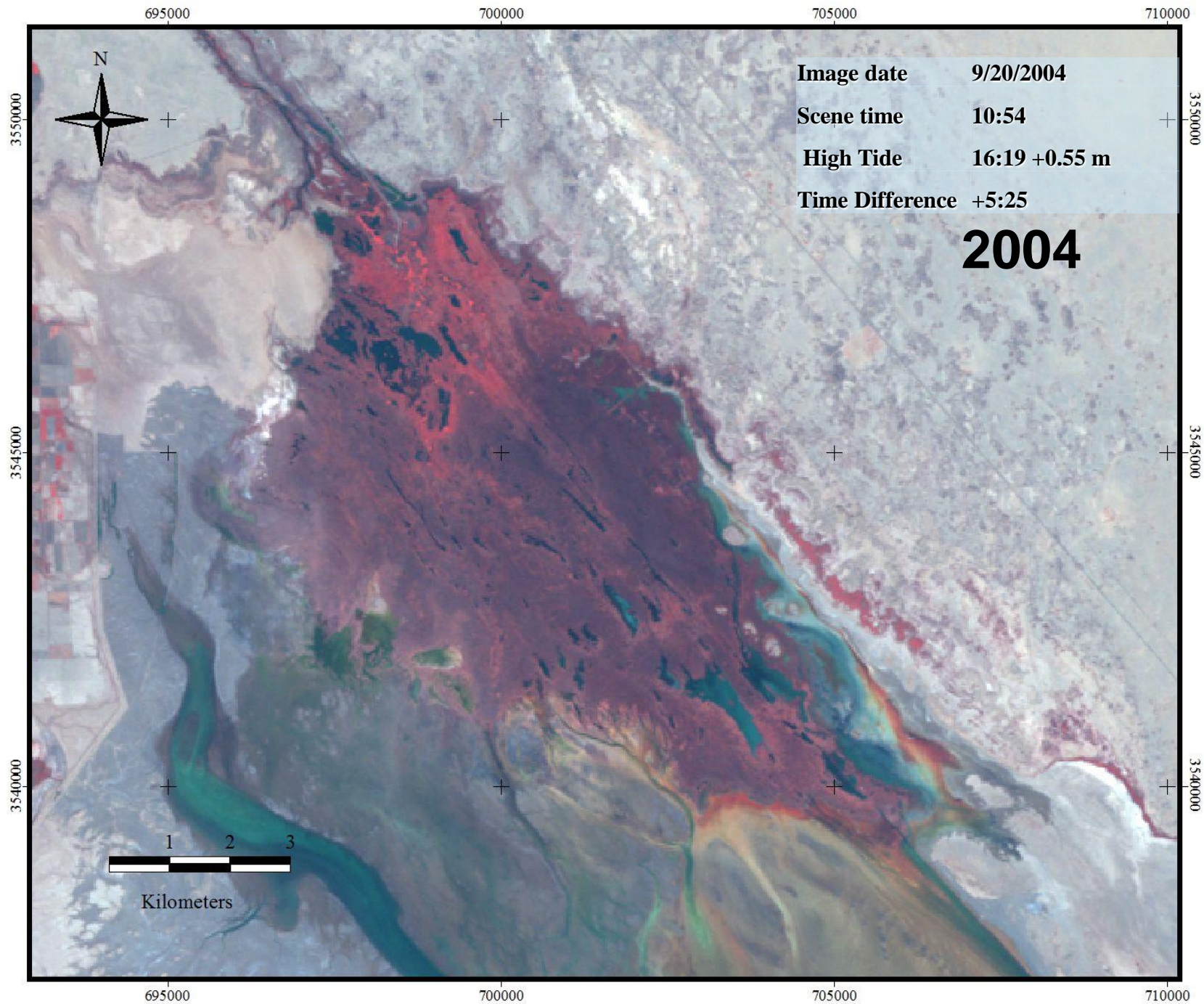


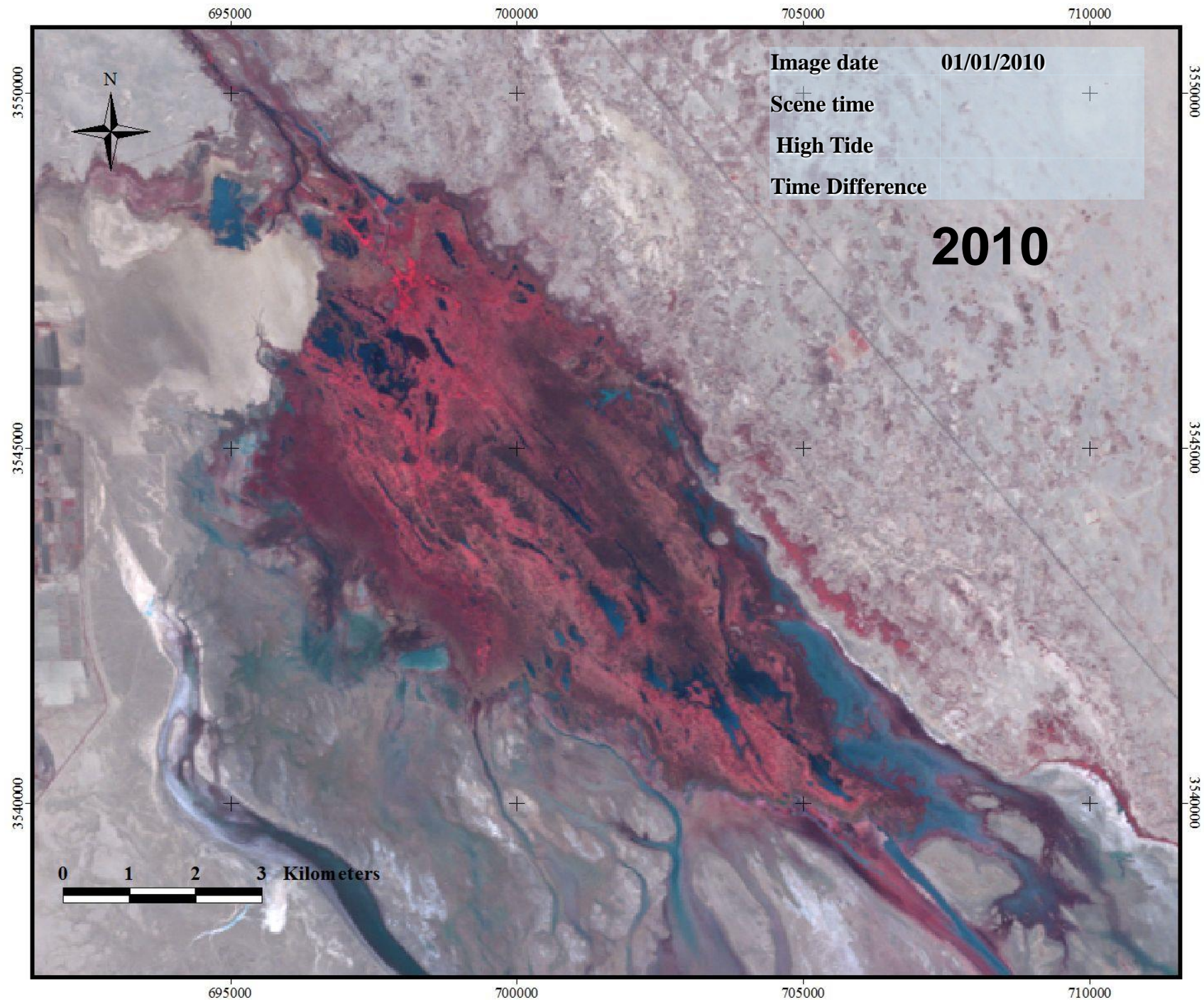












Ciénega de Santa Clara and Yuma Desalting Plant

Trial run of the YDP (May 2010-March 2011), with participation of Arizona, Nevada, California and USBOR, 30% capacity

Historic agreement between Mexico, the U.S. and environmental groups to protect the Cienega

First time in which both countries dedicate water for the environment in the delta, and the first time that environmental groups are part of the Treaty

Comprehensive binational monitoring program

Restoration in the Colorado River Delta:

- We have a regulatory framework, public policies and the support from different stakeholders
- Binational cooperation
- Water allocation is feasible
- The protection of large areas of wetlands and floodplain is feasible
- Resilient ecosystem: restoration is possible