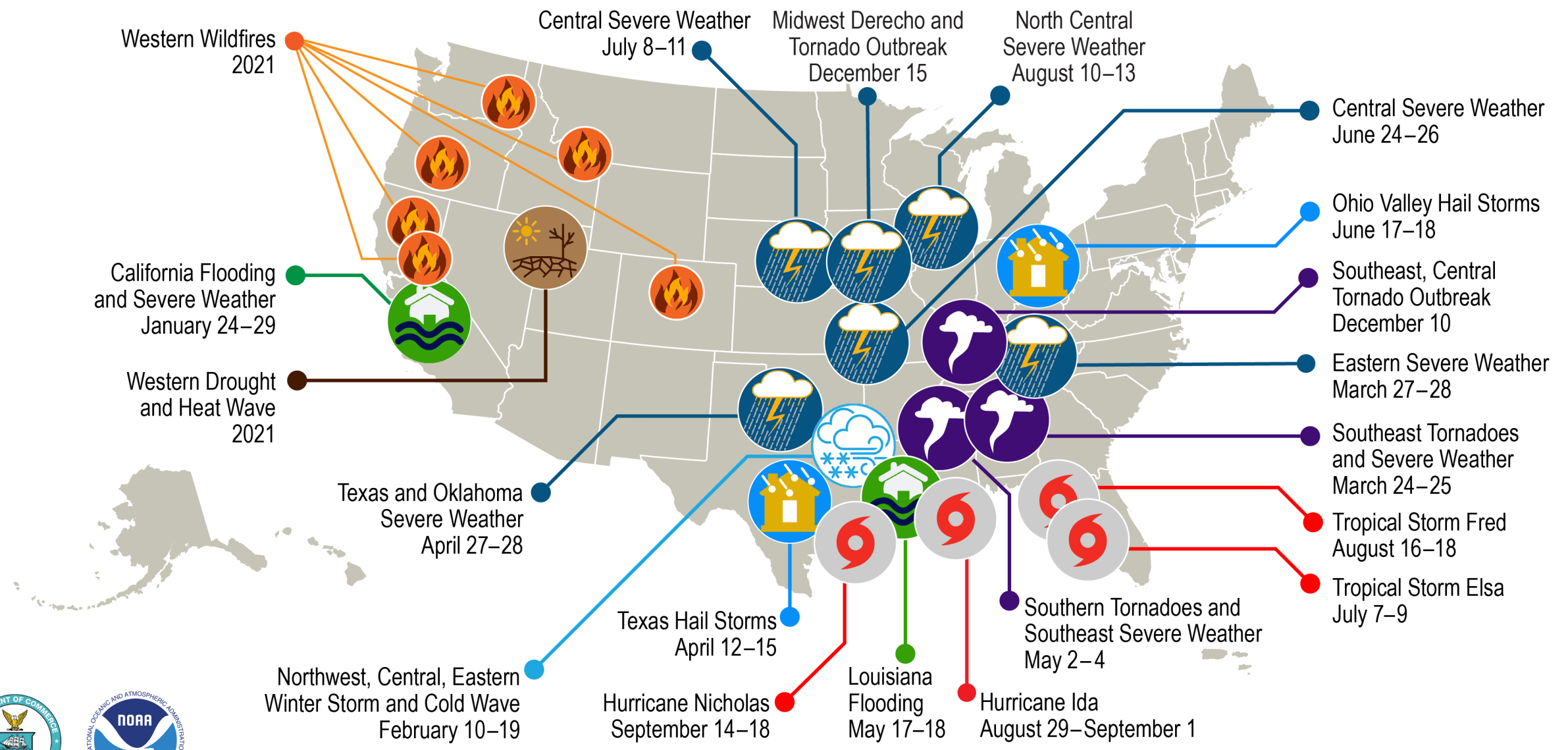
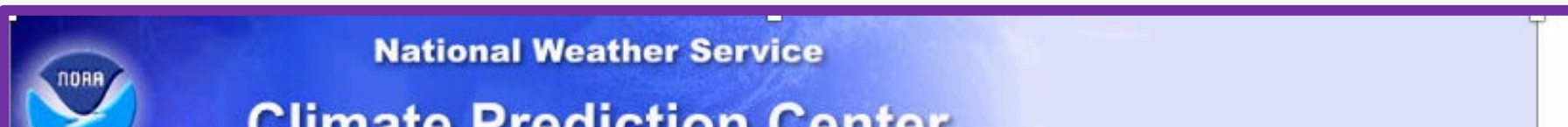


U.S. 2021 Billion-Dollar Weather and Climate Disasters



This map denotes the approximate location for each of the 20 separate billion-dollar weather and climate disasters that impacted the United States in 2021

Prediction Across Time-Scales



FORECAST SKILL

THE SUBSEASONAL EXPERIMENT (SubX)

A Multimodel Subseasonal Prediction Experiment

KATHY PEGION, BEN P. KIRTMAN, EMILY BECKER, DAN C. COLLINS, EMERSON LAJOIE, ROBERT BURGMAN, RAY BELL, TIMOTHY DELSOLE, DUGHONG MIN, YUEJIAN ZHU, WEI LI, ERIC SINSKY, HONG GUAN, JON GOTTSCHALCK, E. JOSEPH METZGER, NEIL P. BARTON, DEEPTHI ACHUTHAVARIER, JELENA MARSHAK, RANDAL D. KOSTER, HAI LIN, NORMAND GAGNON, MICHAEL BELL, MICHAEL K. TIPPETT, ANDREW W. ROBERTSON, SHAN SUN, STANLEY G. BENJAMIN, BENJAMIN W. GREEN, RAINER BLECK, AND HYEMI KIM

subsurface
ice, land ice

5-yr

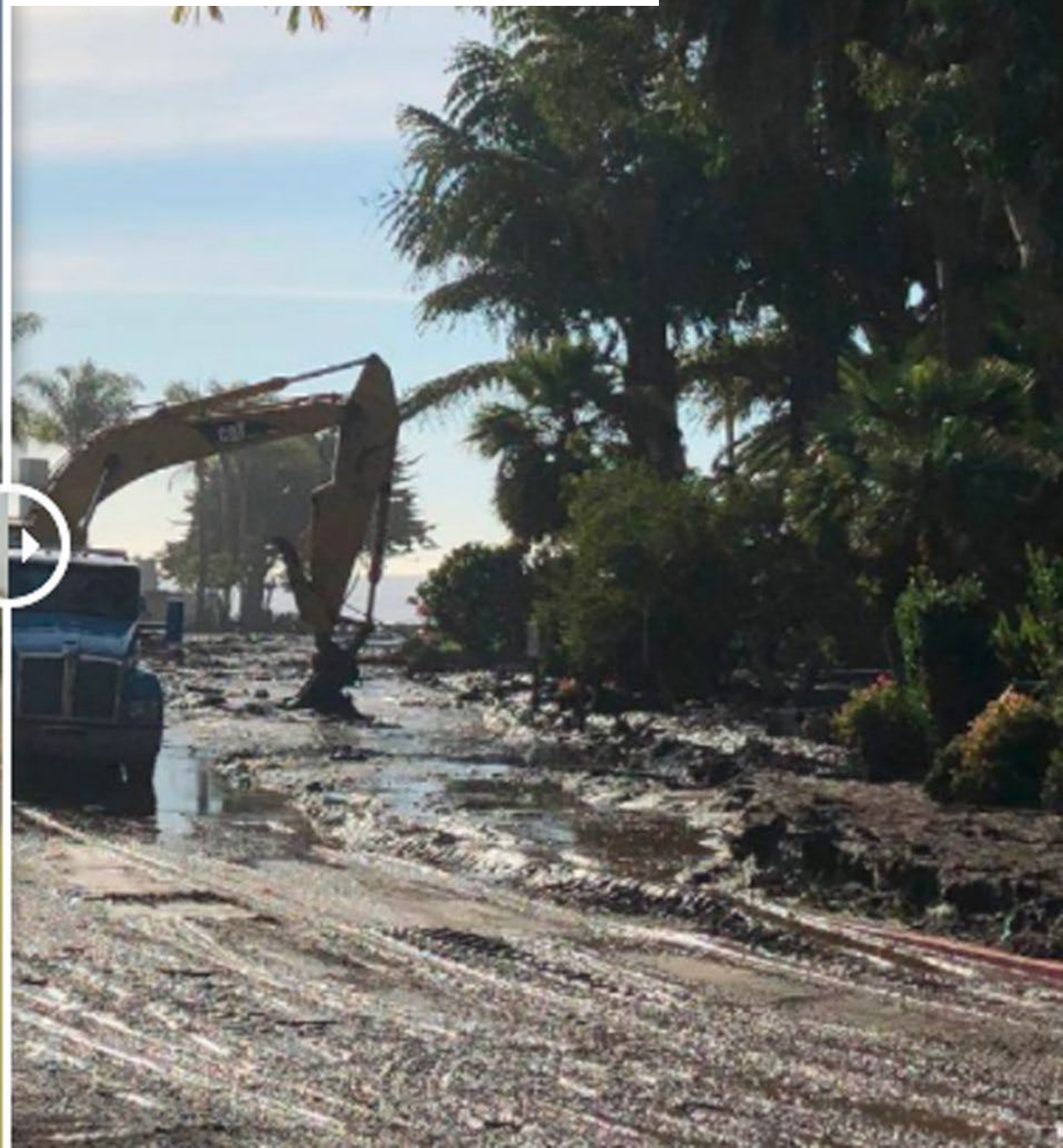
About the NMME
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al forecasts
ility comes for subsurface
ocean and evolving atmospheric
composition (CO2)

Santa Barbara, CA : January 8th 2018



Santa Barbara, CA: January 25th 2018

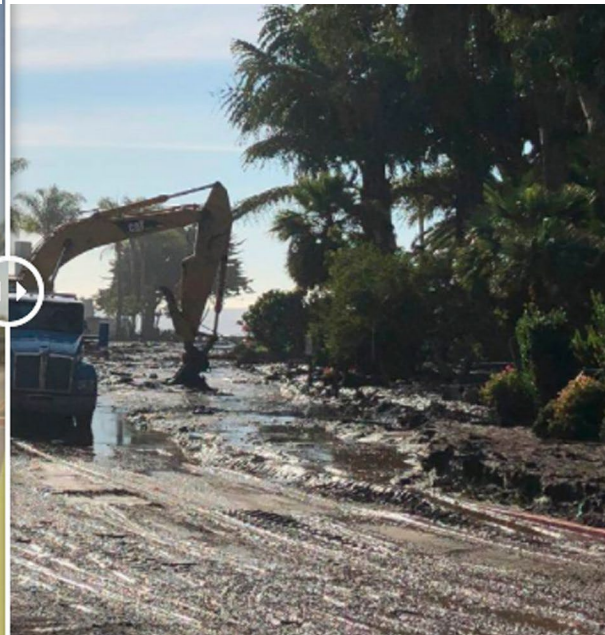


Improving Forecasts of Sub-Seasonal Flood Risk

Montecito California: January 8th 2018



Montecito California: January 25th 2018



UM-RSMAS Leads a Multi-Agency, Multi-Institutional Effort to Improve NOAA Sub-Seasonal Operational Forecasts

UNIVERSITY OF MIAMI
COOPERATIVE INSTITUTE for
MARINE & ATMOSPHERIC STUDIES



INSTITUTE for
DATA SCIENCE &
COMPUTING

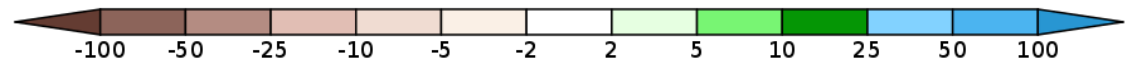
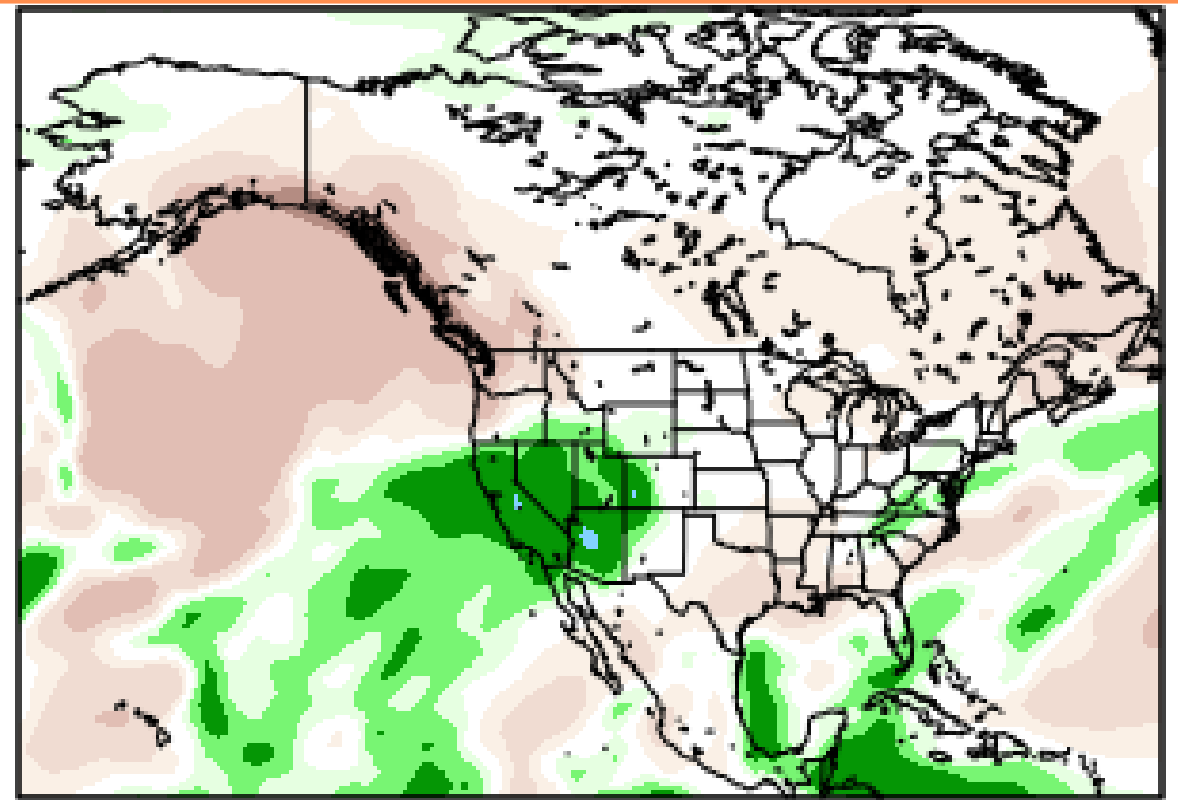


~ Customized Subseasonal Weekly Forecasts ~

Very Important Disclaimer: These experimental anomaly forecasts are produced by the **Subseasonal Experiment (SubX) Project** for research purposes. They are not official forecasts and are not guaranteed to be timely or accurate. For official subseasonal climate outlooks, please visit the **NOAA/NWS Climate Prediction Center**.

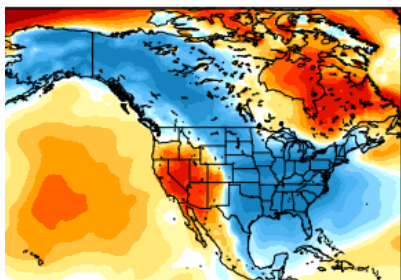
Begin by selecting a SubX model, variable, and desired forecast period. Then specify the domain by choosing one of the preset options or manually editing the Longitude and Latitude ranges. Use the check boxes for additional customizations. Click the **SUBMIT** button to generate the plot.

SubX-RSMAS: Montecito 3-Week Lead Flood Forecast Valid Week Ending Jan. 12, 2018

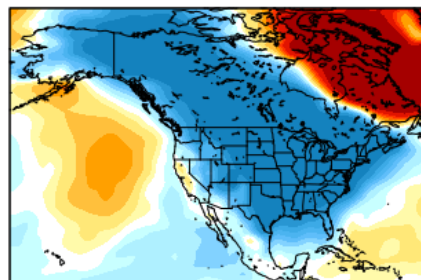


SubX Week 2 2m Temperature Anomalies (deg C): Valid week en

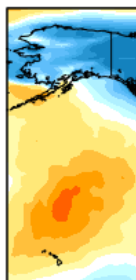
ESRL-FIMr1p1 (IC: 02/03 ; 4 Ens)



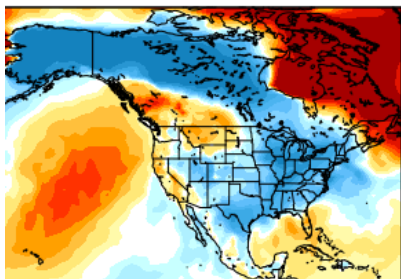
RSMAS-CCSM4 (IC: 01/31 ; 9 Ens)



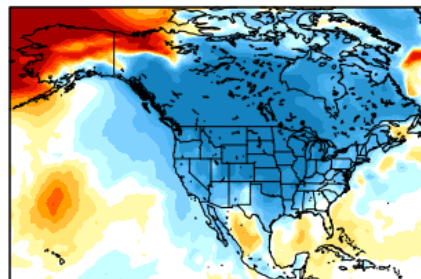
EMC-GE



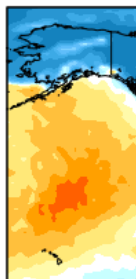
GMAO-GEOS_V2p1 (IC: 01/31 ; 4 Ens)



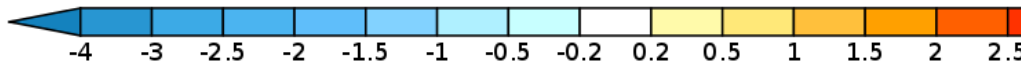
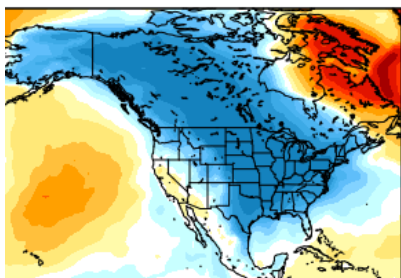
NRL-NESM (IC: 01/30-02/02 ; 4 Ens)



ECCC-GE



MME (63 Ensemble Members)



Temperature anomaly

Feb. 16

Colder than average

-50° F/-28° C

Average

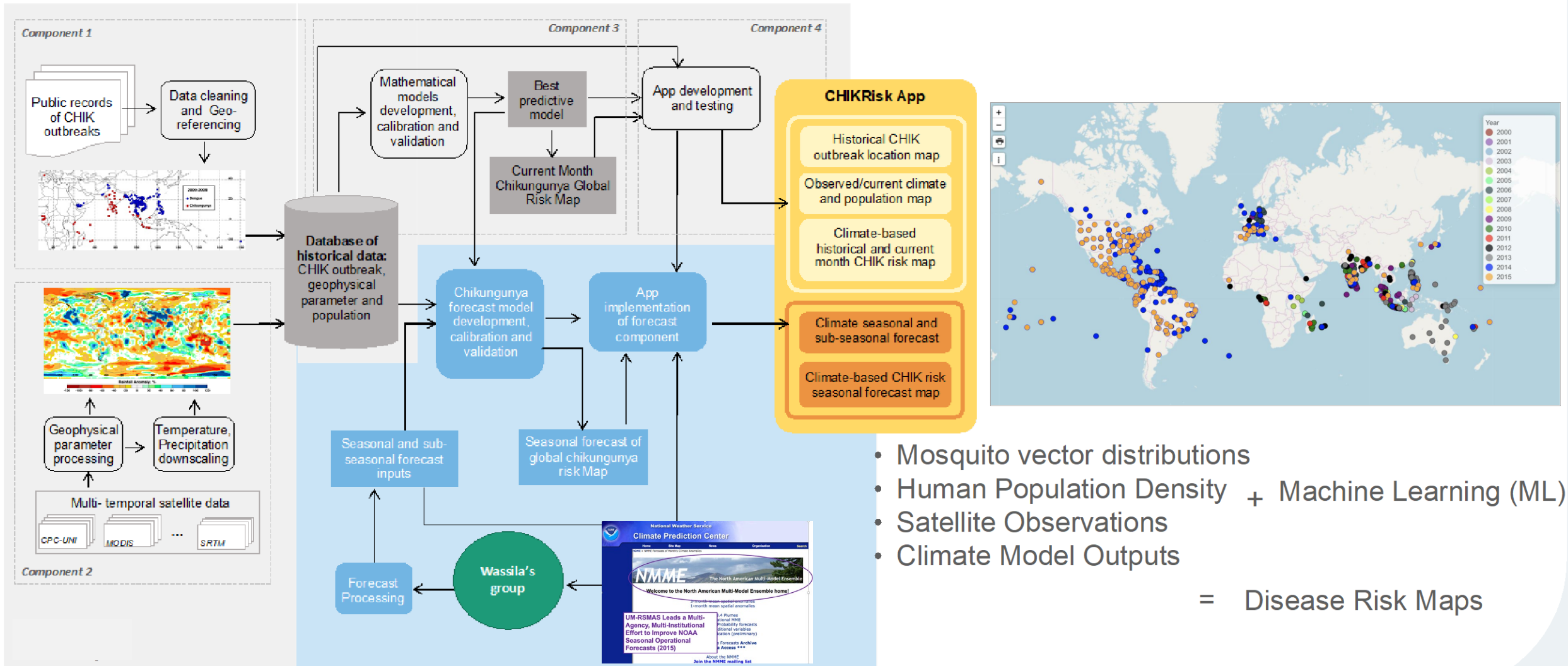
Warmer than average

+50° F/+2



Temperature departure estimated from NOAA GFS/CFSR models using a 1979-2000 climate baseline.

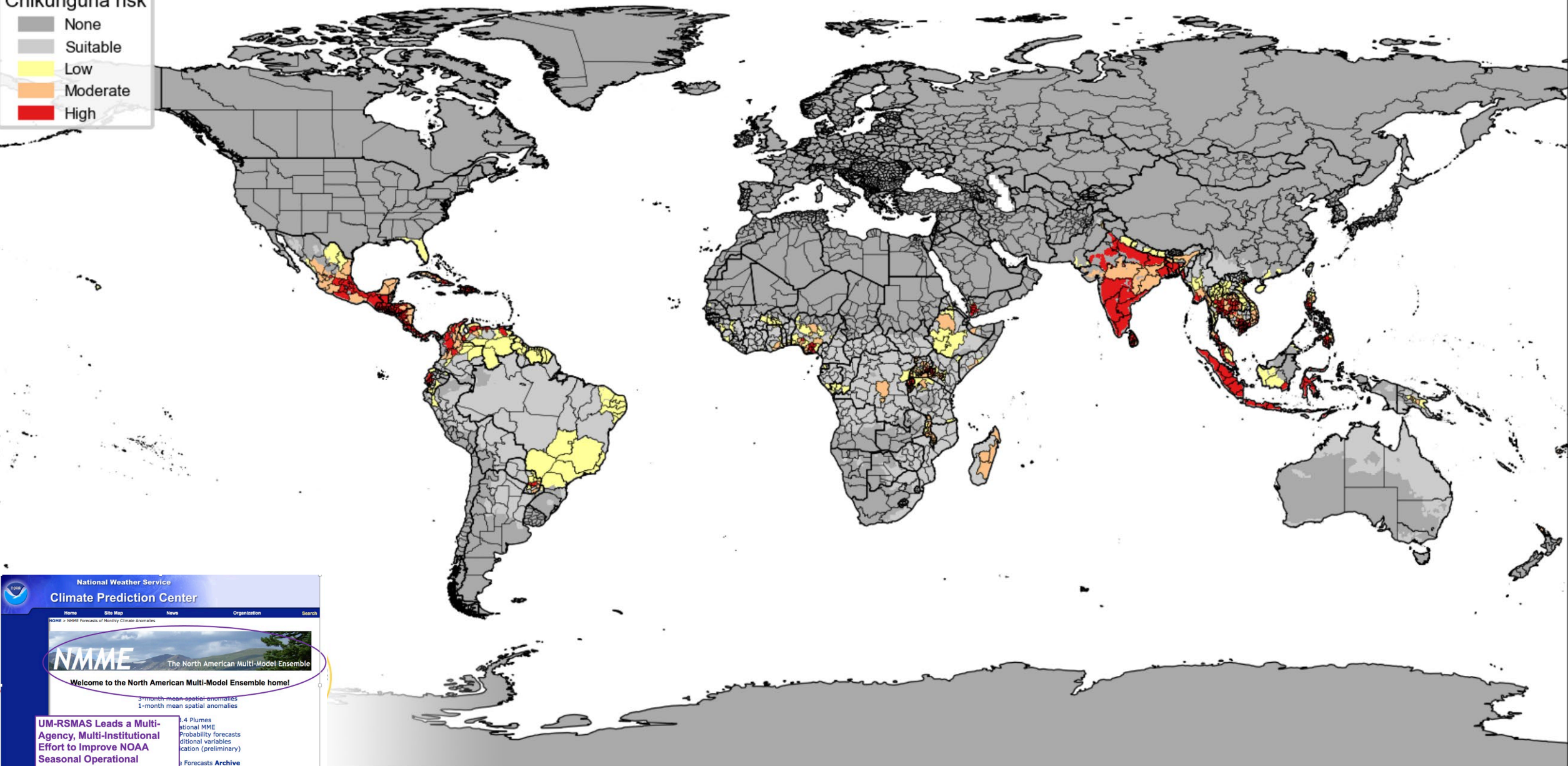
Building Integrated Disease Models: Chikungunya



FORECAST CHIKUNGUNYA RISK, AUGUST 2021

Chikungunya risk

- None
- Suitable
- Low
- Moderate
- High



National Weather Service
Climate Prediction Center

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HOME » NMME Forecasts of Monthly Climate Anomalies

Welcome to the North American Multi-Model Ensemble home!

3-month mean spatial anomalies
1-month mean spatial anomalies

UM-RSMAS Leads a Multi-Agency, Multi-Institutional Effort to Improve NOAA Seasonal Operational Forecasts (2015)

- 4 Plumes
- ational MME
- Probability forecasts
- ditional variables
- ication (preliminary)

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Dust Forecast Over Miami

