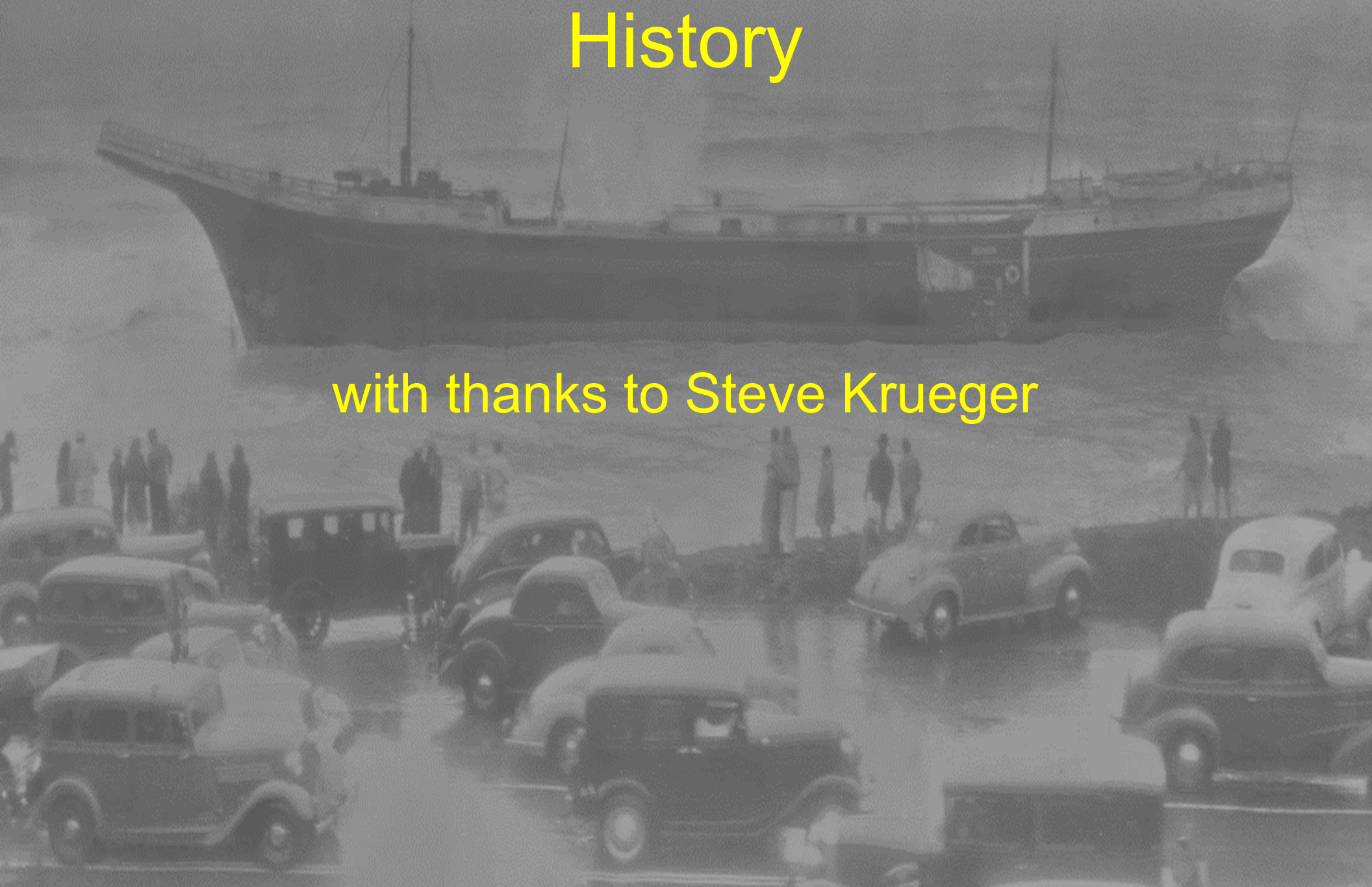


A satellite image of a tropical cyclone, showing a distinct eye and spiral cloud bands over the ocean. The text is overlaid in the center of the image.

Tropical Cyclones Affecting Los Angeles

Los Angeles Tropical Cyclone History

with thanks to Steve Krueger



TCs in the Southwestern U.S.

- Only 4 storms brought tropical storm-force winds to the SW U.S. during the 20th Century
- Only a single storm made direct landfall in Southern California
- No storms have made landfall in the SW U.S. as hurricanes
- Notwithstanding the above, many TC remnants, or TCs passing close by have affected the SW U.S.
- Main problem is rainfall-induced flooding

Strongest tropical cyclone to affect Los Angeles since records began: Cyclone of September 24-26 1939

- Wind gusts to 65 knots, 5.6” of rain at LA
- Mt. Wilson recorded storm total of 11.6”
- 45 deaths from flooding, 48 lost at sea
- Circulation in advance of cyclone responsible for intense heat wave (107 in LA)

See article by Paul Duginski, LA Times, 22 August 2019



Paths of the first and fourth in a series of September 1939 storms that affected Southern California, with the fourth one making landfall as a tropical storm. Two others dissipated before reaching the Southland, but influenced the area. (Paul Duginski / Los Angeles Times)



Sunset Beach, Orange County

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VOL. LVIII CC MONDAY MORNING, SEPTEMBER 25, 1939.

Heart Attack Takes Life of Laemmle

Funeral Services for Pioneer in Film Will Be Tomorrow

BY EDWIN SCHALLERT
Pioneer among pioneers, and the first great independent producer of the motion-picture business, Carl Laemmle Jr., often known as "Duke Carl" and the "Little Napoleon," died of a heart attack yesterday at 11:30 a.m. at his Beverly Hills residence, 1275 Benedict Canyon Road.

WAS 72 YEARS OF AGE
Though he was the first actor known to have received a record of service in pictures of half a decade that did not know him as a producer, Laemmle's passing was an event in motion picture history.

AIRED MANY
Many, indeed, in the industry had benefited by his leadership, and there are scarcely any with a record of service in pictures of half a decade that did not know him as a producer.

REMARKS
Funeral services for Laemmle will be held tomorrow at 11:30 a.m. at the Hollywood Park funeral home, 6100 Hollywood boulevard.

French Halt Germans and Renew Drive

Paris Says Troops Moved Down Enemy in West Front Attack

PARIS, Sept. 24. (AP)—The French reported late tonight that they had pinned German troops to their advance guard positions and had renewed the offensive themselves to prevent development of a Nazi thrust on the western front.

CAREER ENDED — Carl Laemmle Jr., film pioneer, who died yesterday.

Trade Offered on Neutrality

President Willing to Compromise on All but Embargo Repeal

WASHINGTON, Sept. 24. (AP)—The French proposition for a free German territory as virtually all parties of the front now are reported to have reached German headquarters in a move to permit the free flow of goods and services to the west.

Point Magu Fishing Boat Capsizes With 26 Aboard; Piers and Vessels Smashed

Gales roaring out of the trough onto the Southern California coast reached a 65-mile-an-hour velocity last night and left a toll of 29 believed dead, including 24 feared drowned on the sport fishing boat 'Sorey' capsized at Point Magu, eight miles south of Oxnard.

Rain Breaks Heat Wave

Mercury Drops to Storm Drenches Southland; Indo Gets 5 Inches

Shown in by the heaving gull that battered the coast line, a hundreds of persons were rescued from the wreckage of the boat 'Sorey' capsized at Point Magu, eight miles south of Oxnard.

Covet Balks Hitler in East

Henry Asserts British Destroyer, Berlin Reports

Two Merchant Vessels, One Swedish, Also Sent to Bottom by Germans in Day's Sea Warfare



The 247-foot fishing barge Minnie A. Caine was washed ashore off Sunset Boulevard north of Santa Monica. Her six crew members were rescued. The fishing barge was one of several craft, large and small, battered by heavy seas and 60 mph winds. This photo appeared in the Sep. 25, 1939, editions of the Los Angeles Times. (Los Angeles Times)

Property Destruction Marks Southern California Path of Rain-Laden Gale



CAVE-IN—Storm-weakened area at intersection of Eighth and Alameda Sts. collapsed at height of gale which deluged Southland with heaviest September rain on record. *Times photo*



TOPFLING INTO SEA—One of the many beach homes which were destroyed by the heavy surf which undermined foundations in this home on shore of Alamitos Bay. Residents of the home are shown as they removed furnishings as pounding swells shook the dwelling, threatening to topple the damaged structure into the surf. *Photo West Jones*



CLOSED—Lunch room and adjoining residence near Long Beach were ripped by pounding ground swells. *Times photo*



NEW CITY LAKE—Rushing to the low area at three-way intersection of Temple, Figueroa and California Sts., rainwater at height of storm created this new expanse of water, making new downtown lake, stalled autos. *Times photo*



BATTERED BY WAVES—Once a shoreline residence on E. Ocean Blvd., Long Beach, this pile of wreckage indicates the force of the ripping waves that battered at Southland coastline, wrecking scores of homes. *Times photo*



PREVIOUSLY SWEEP BY SEA—Dug Dale takes a broom to what's left of floor of home on E. Ocean Blvd., Long Beach, after surging surf took out walls and floor in attack, aided by the lashing winds and driving rains. *Times photo*

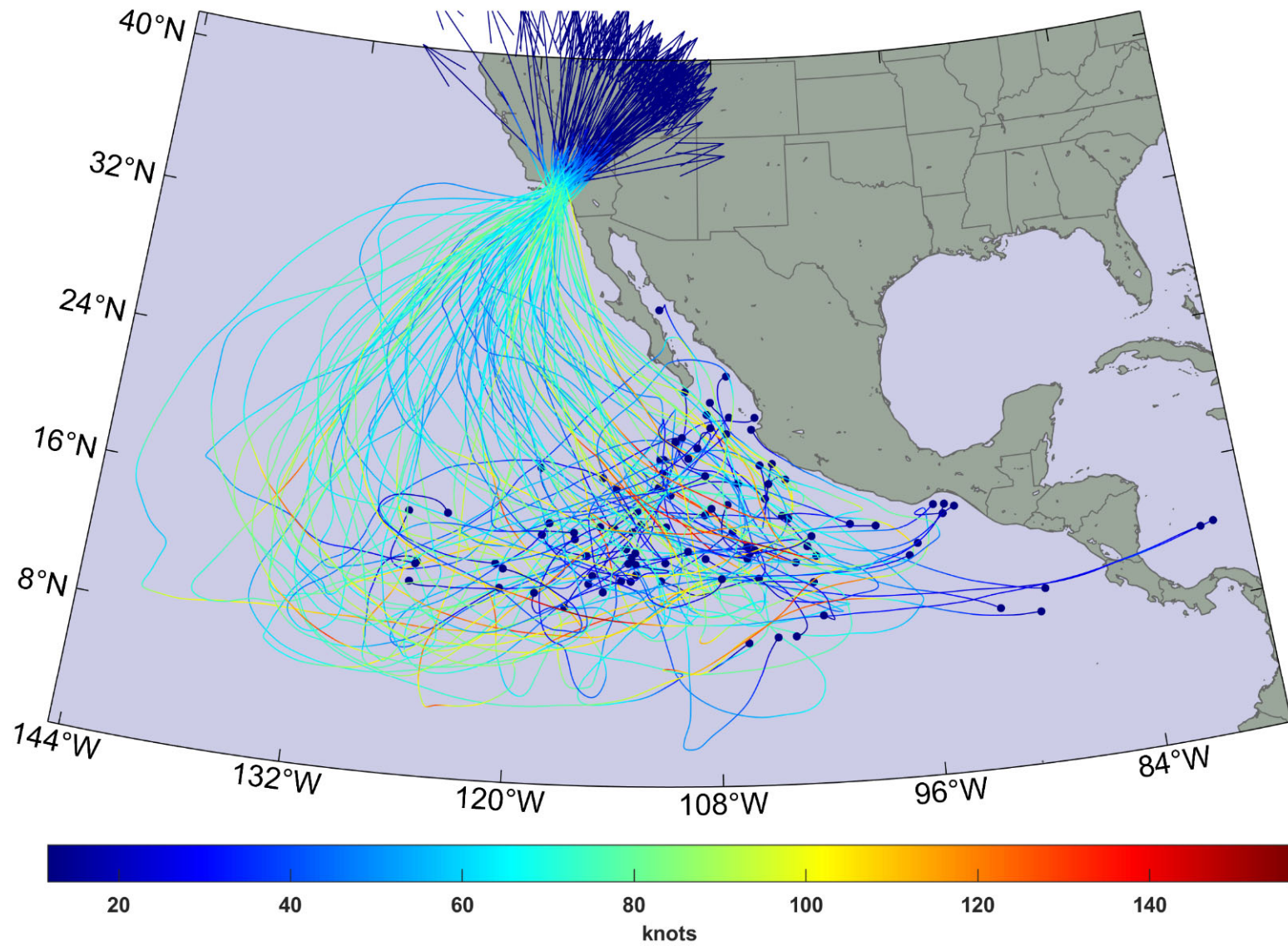
Los Angeles Times, September 26 1939

Application of MIT downscaling to assess long term TC risk near Los Angeles

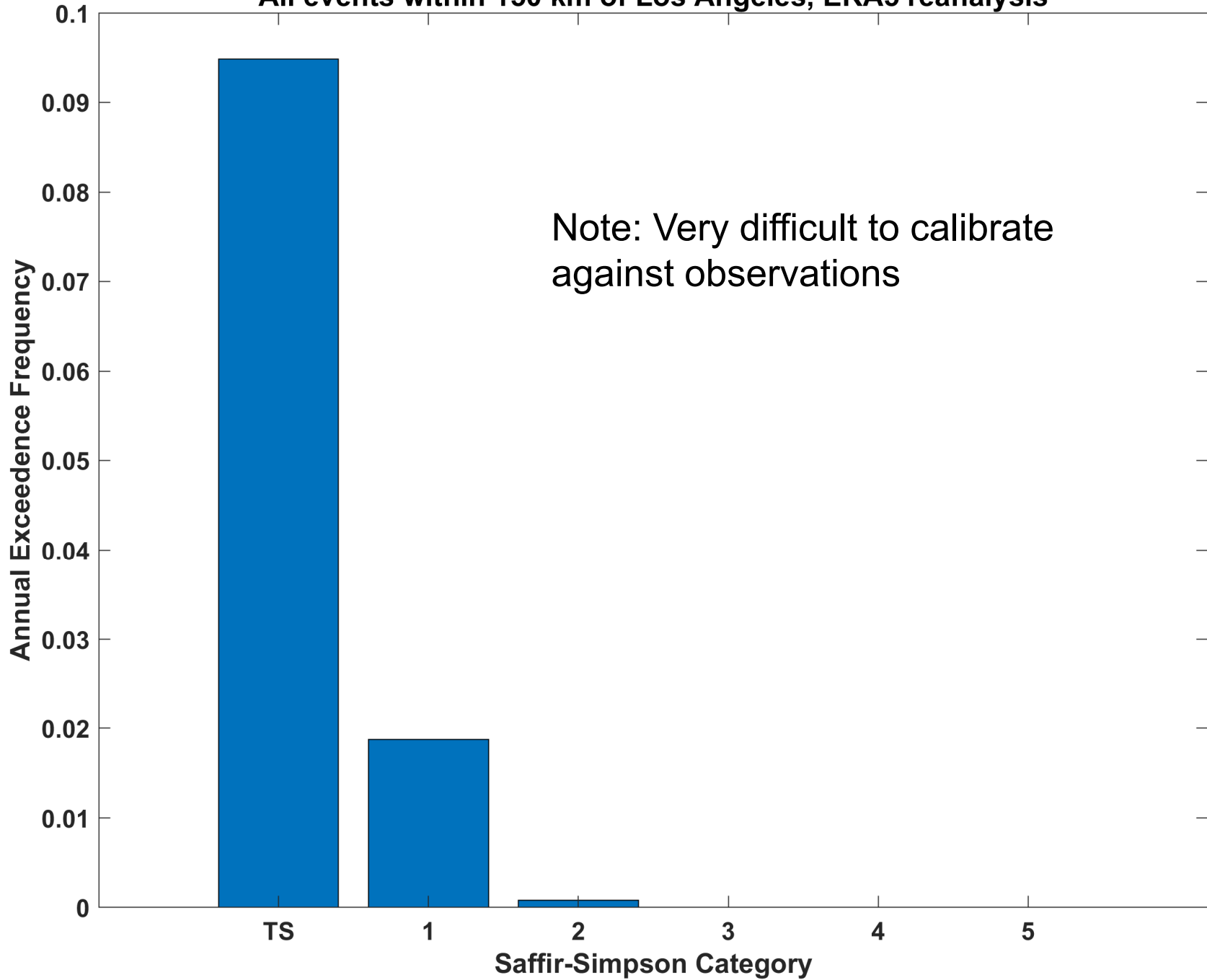
- All events passing within 150 km of downtown Los Angeles with winds in excess of 30 kts within that circle
- 1,260 events downscaled from ERA-5 reanalyses, 1979-2020
- 1,200 events downscaled from each of 9 CMIP6-generation climate models for:
 - 20th century: 1971-2010
 - SSP3 7.0 2061-2100

Strongest 100 of 1260 events downscaled from ERA-5 reanalyses

Top 100 of 1260 Events, Los Angeles, ERA5



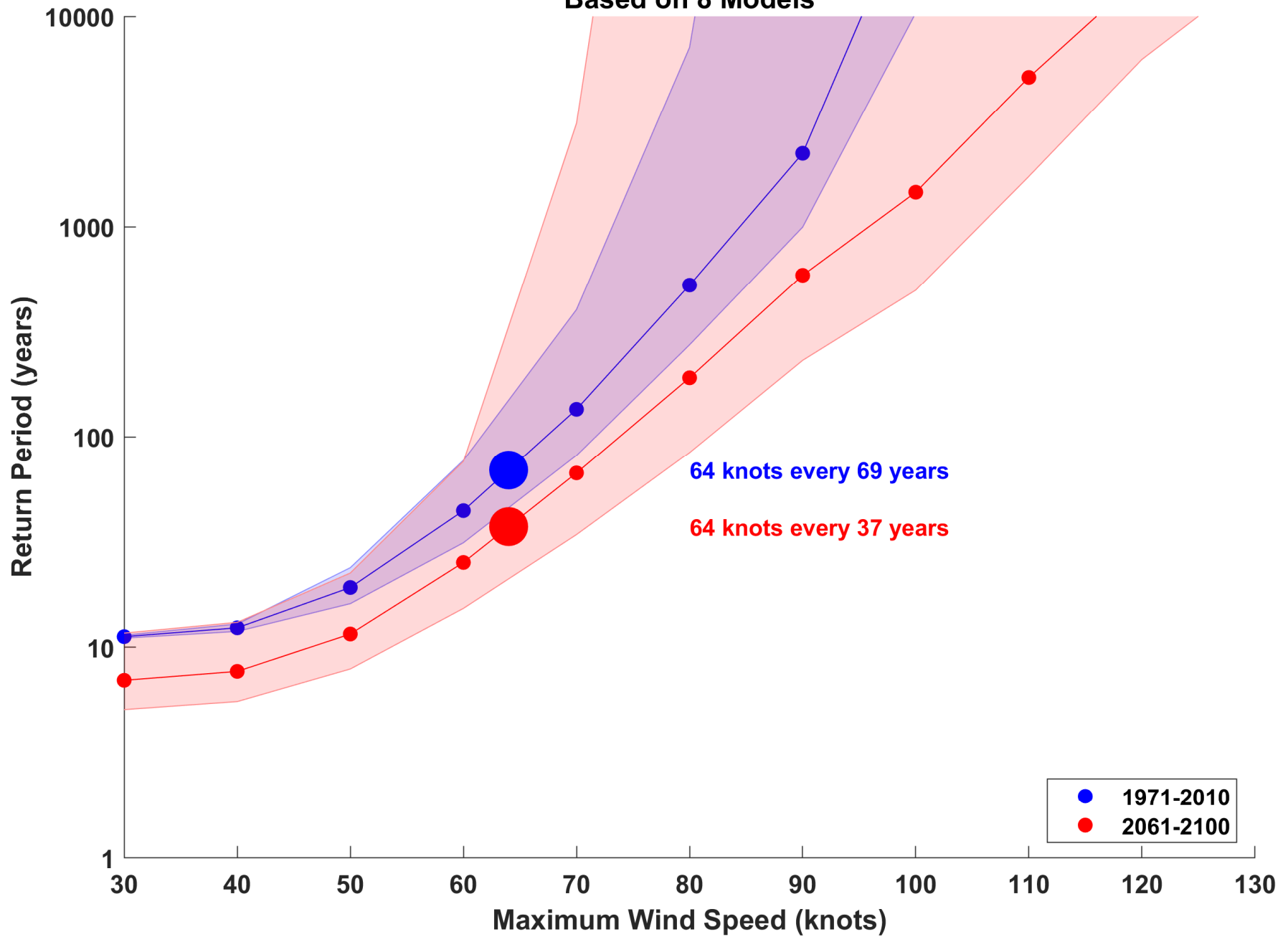
All events within 150 km of Los Angeles, ERA5 reanalysis



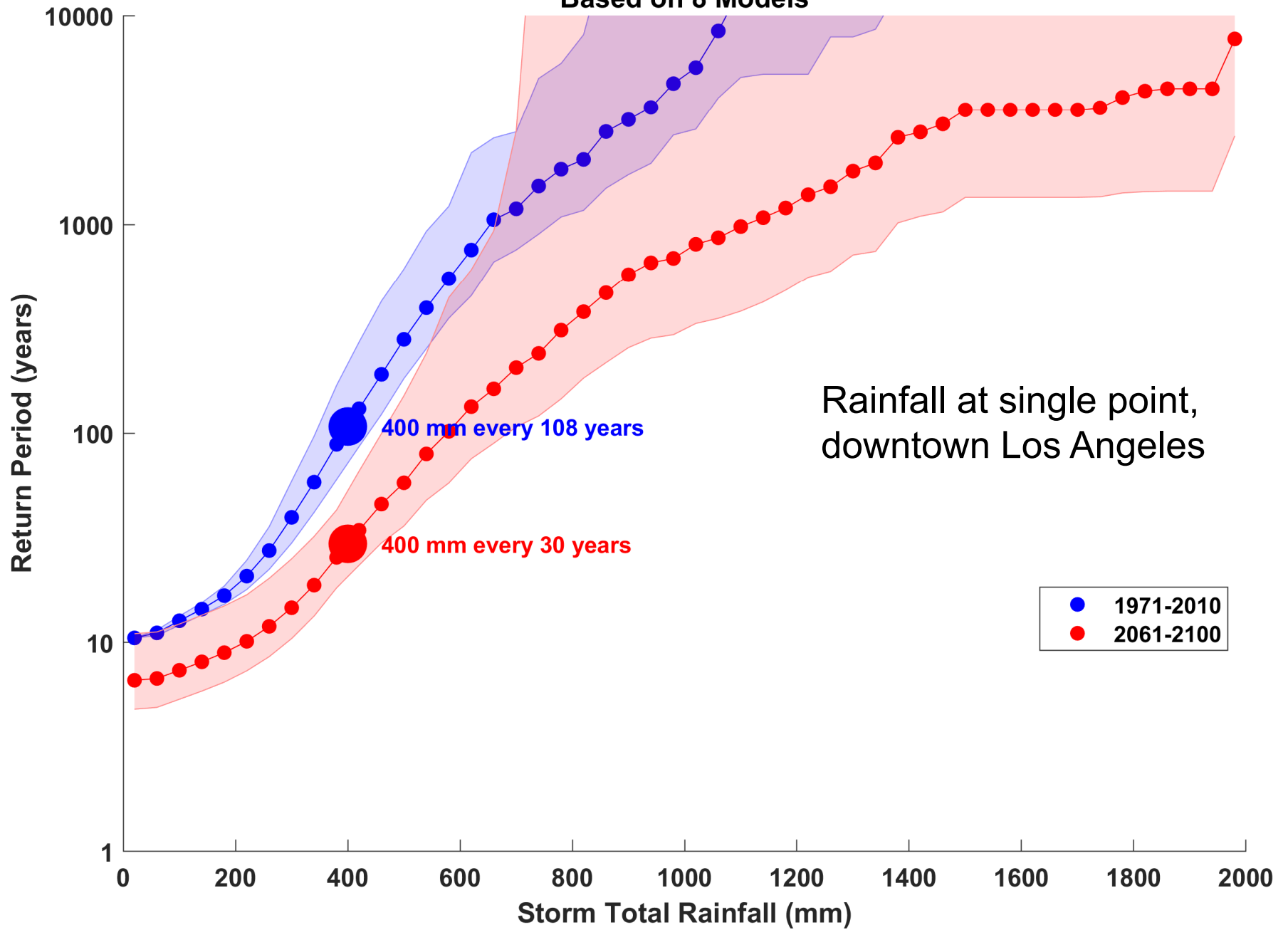
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**Global warming effects on
tropical cyclone affecting Los
Angeles**

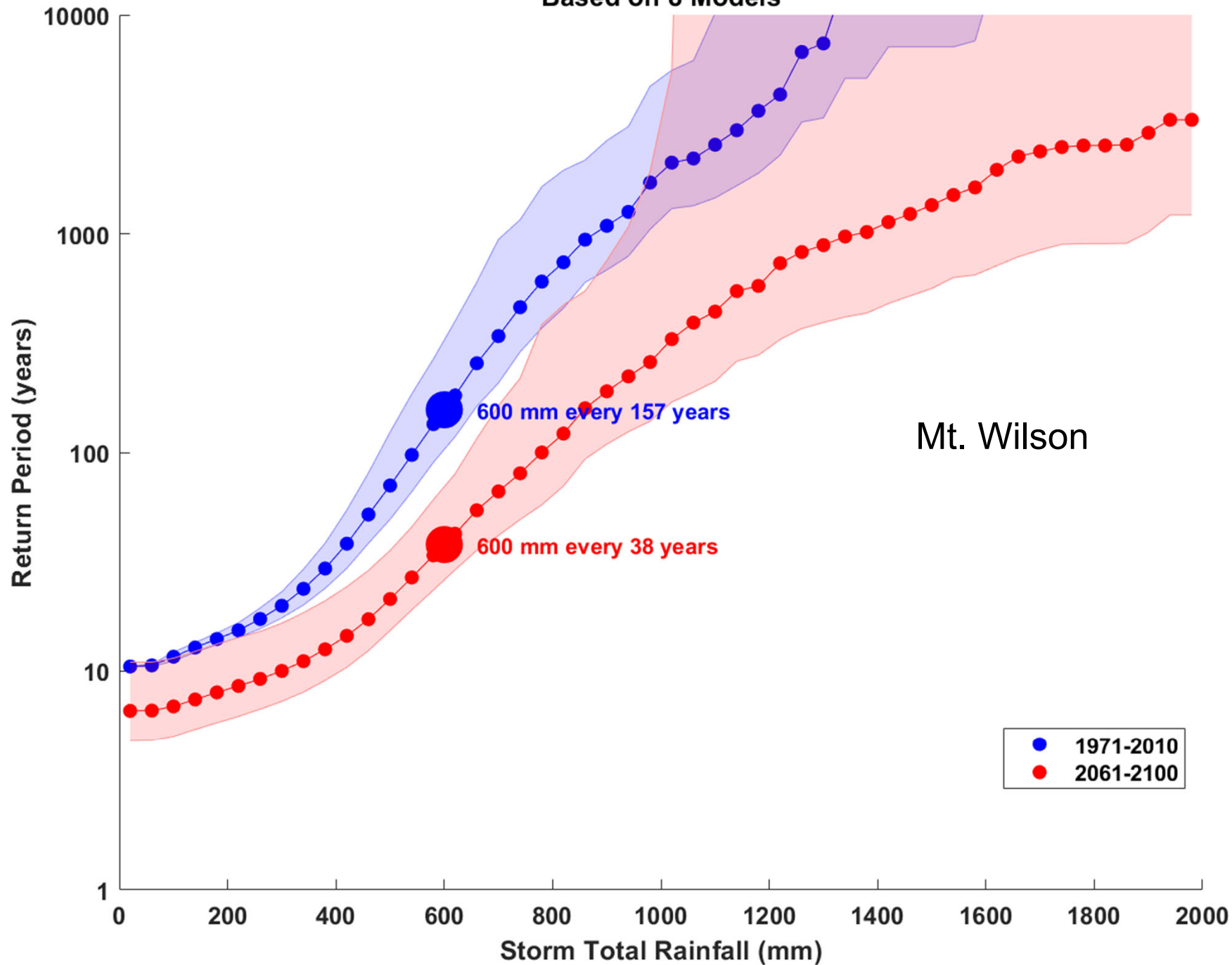
Return Periods of Conditions Within 150 km of Los Angeles Based on 8 Models



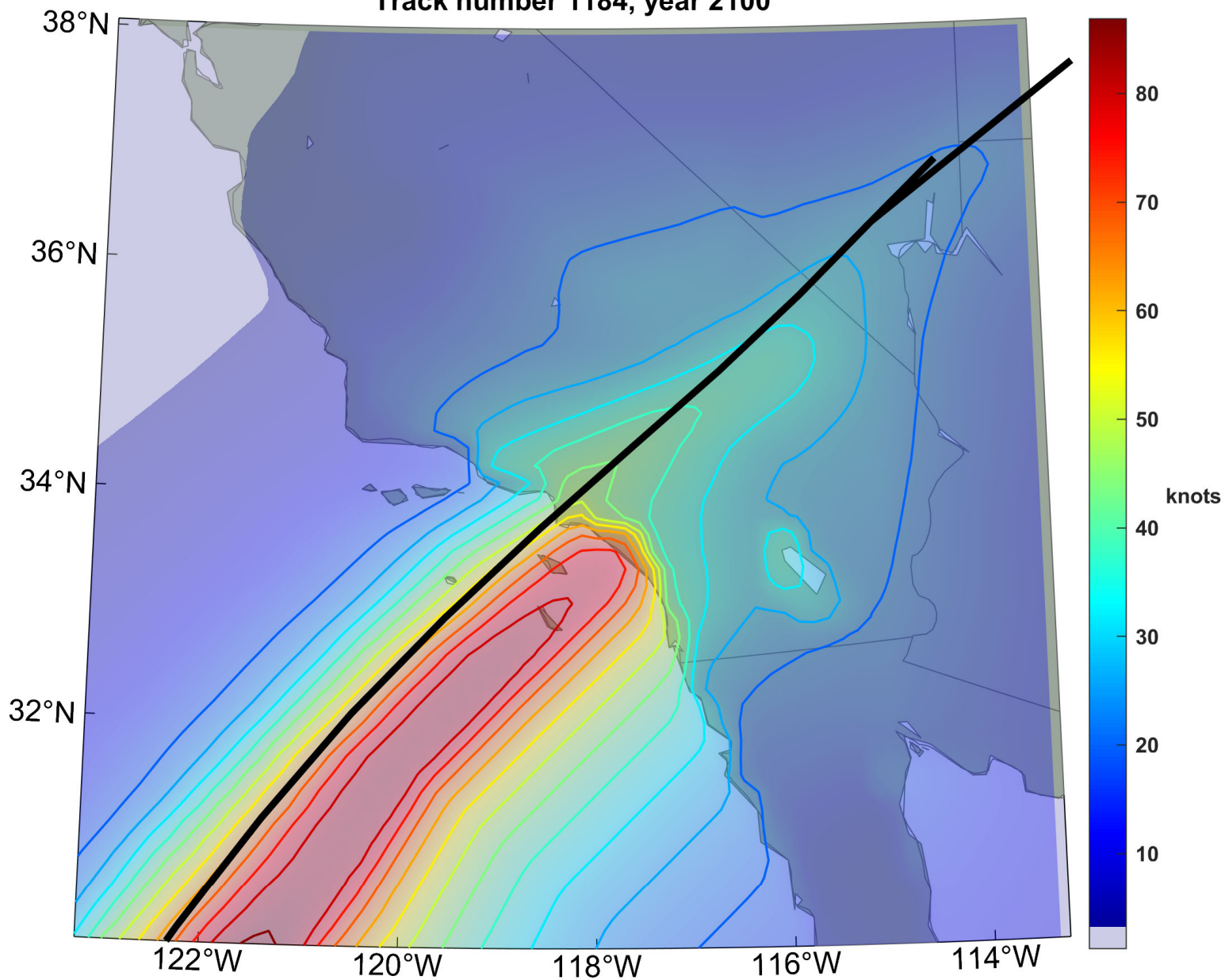
Return Periods of Conditions at Los Angeles Based on 8 Models



Return Periods of Conditions Within 150 km of Mt_Wilson Based on 8 Models



LosAngeles_EP_ukmo6_ssp370
Track number 1184, year 2100



LosAngeles_EP_ukmo6_ssp370
Track number 1080, year 2096

