

## "Maritime" generally refers to climate **Maritime Climate Continental Climate** Coastal location Inland location · Winters cool · Winters cold Summers warm Summers hot Small daily Large daily temperature range temperature range · Large seasonal Small seasonal temperature range temperature range · Low relative High relative humidities humidities Dallman, P.R. 1998. Plant life in the world's Mediterranean climates.

Topography shapes the interplay between maritime and continental climates. Elevation and terrain generate a diversity of microclimates within a given region or landscape.







## So, what about maritime chaparral?

- Relatively new concept introduced ~30 years ago (Griffin 1978).
- Occurs in isolated, low elevation stands along Pacific coast from northern Baja California to southern Mendocino County, California.
- Increasingly recognized for numbers of local endemics and species richness (high biodiversity)
- Along central California coast, at increasing risk of extirpation (and extinction) from human land use practices.







## Characteristics of Maritime Chaparral

- Occurs on oligotrophic (nutrient-poor) soils (sandstones, shales, granites, dunes, serpentines, etc.).
- Is influenced (more or less) by coastal climate and particularly summer fog (coastal cloud) patterns.
- Reflects dynamic vegetation mosaics shaped over time by wild fire regimes.
- Occurs as "meta-populations" in evolutionary time.







## **Conservation Challenges**

- Protect the landscape template of suitable soils.
  Track climate change and potential impacts on the summer fog regime.
  Adjust fire regimes to land use and climate change while managing the urban/wildland interface (buffers).
  Provide for long term connectivity & population
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- Provide for long-term connectivity & population dynamics (e.g.,restoration?). Create socially acceptable, flexible and adaptive land use practices that maintain ecosystem resilience and human well-being (sustainability).

