



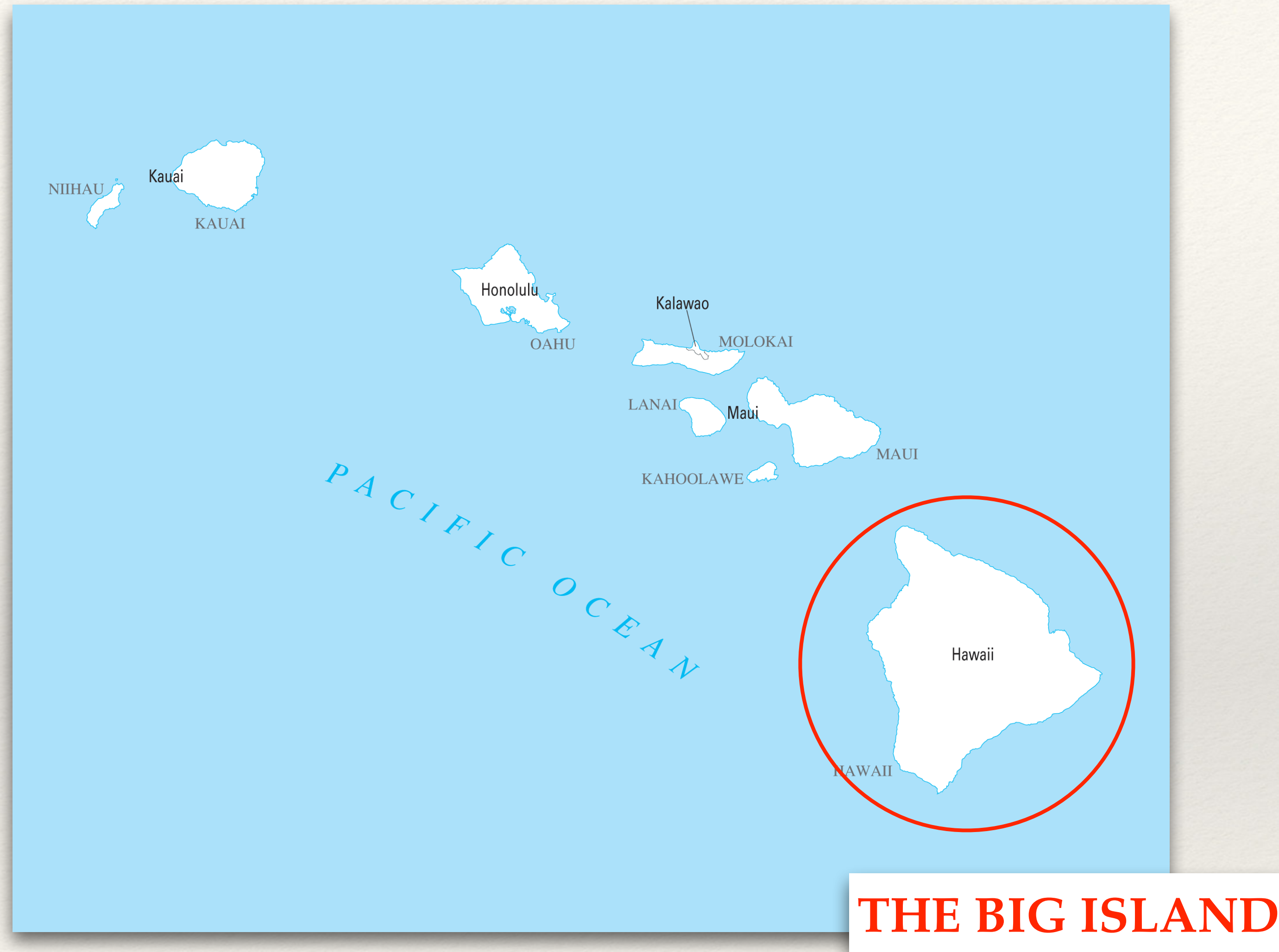
# RAINFALL PATTERNS



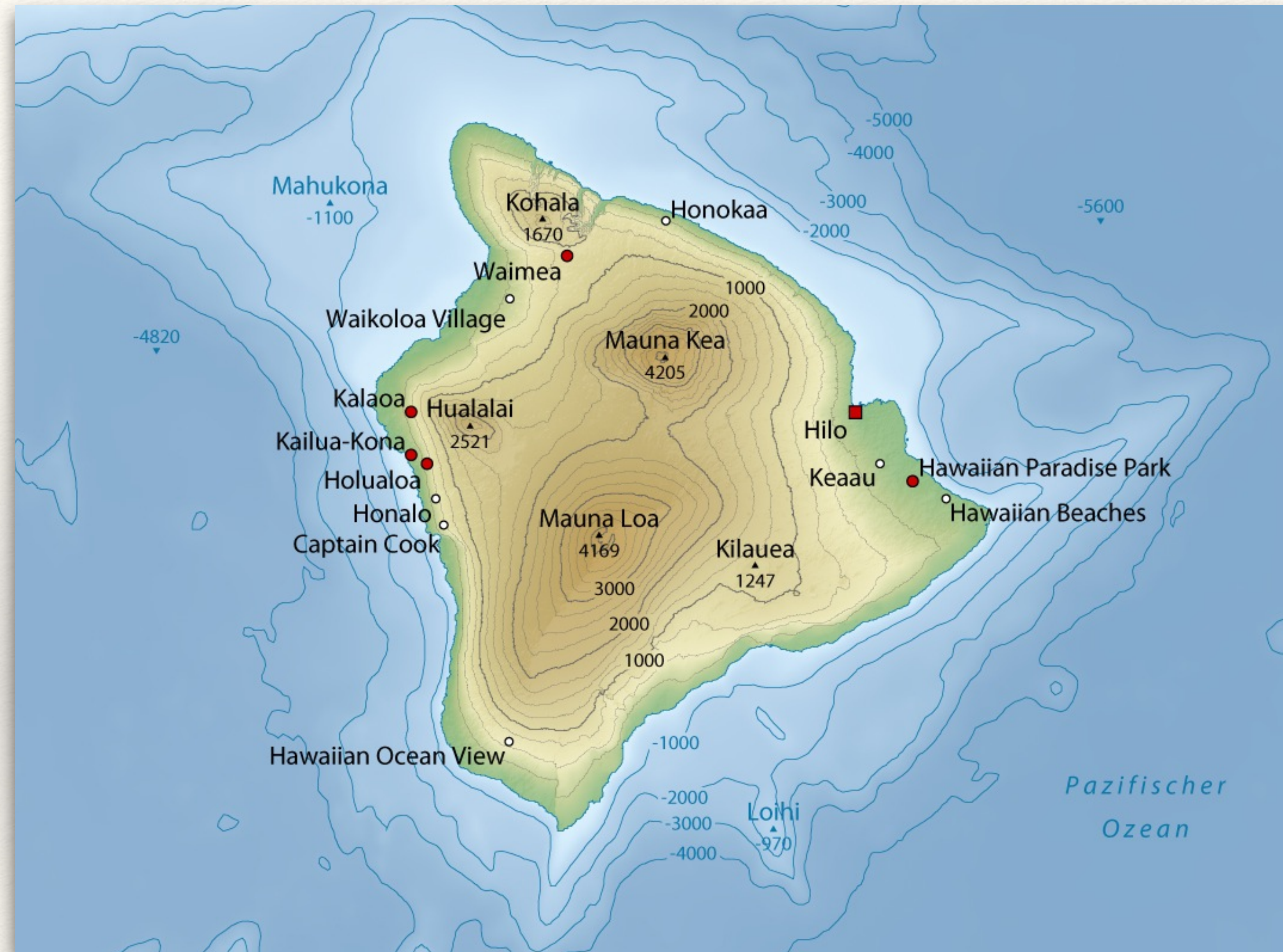
by: Dylan Hernandez

Hawaii





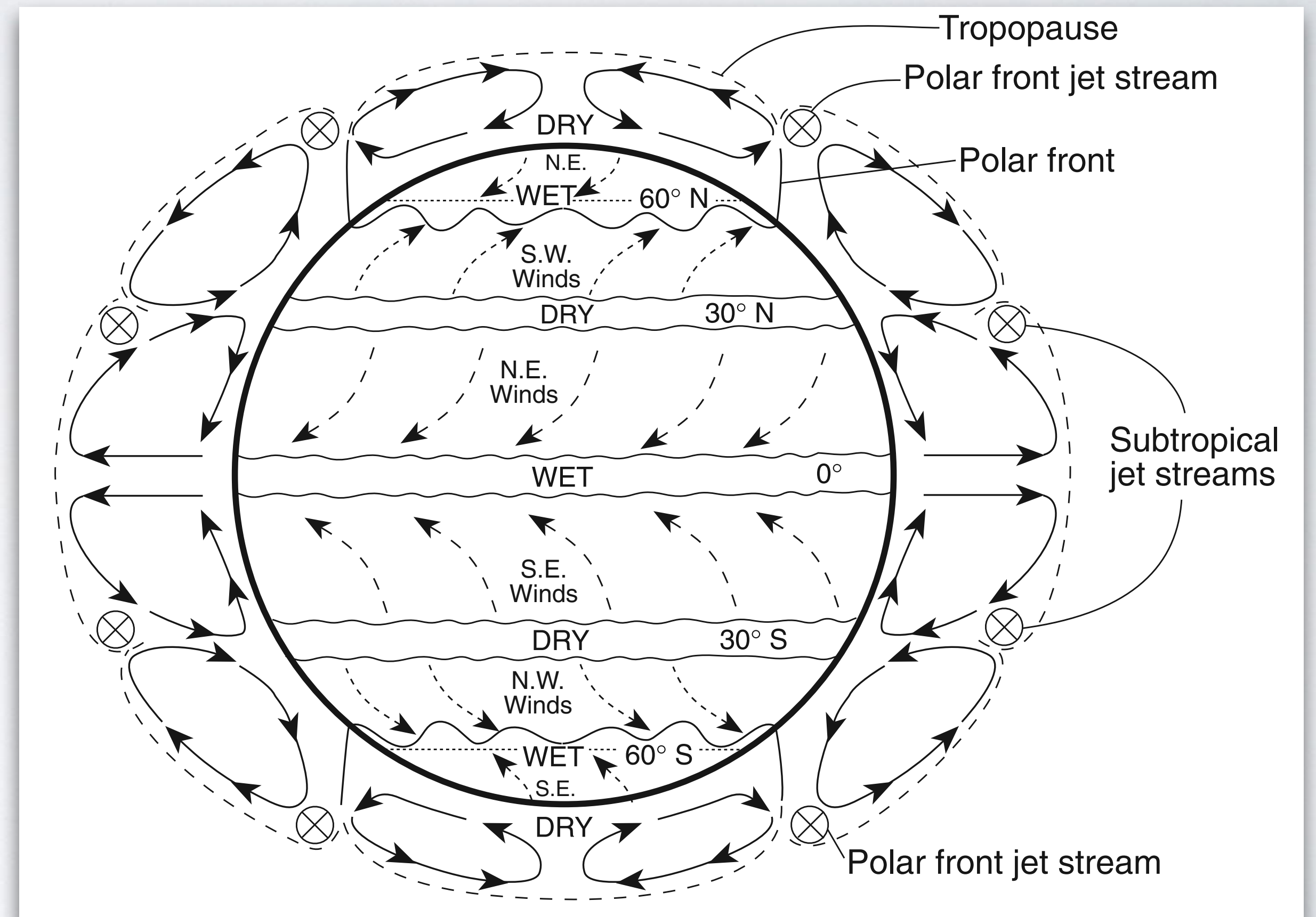
The Hawaiian Islands

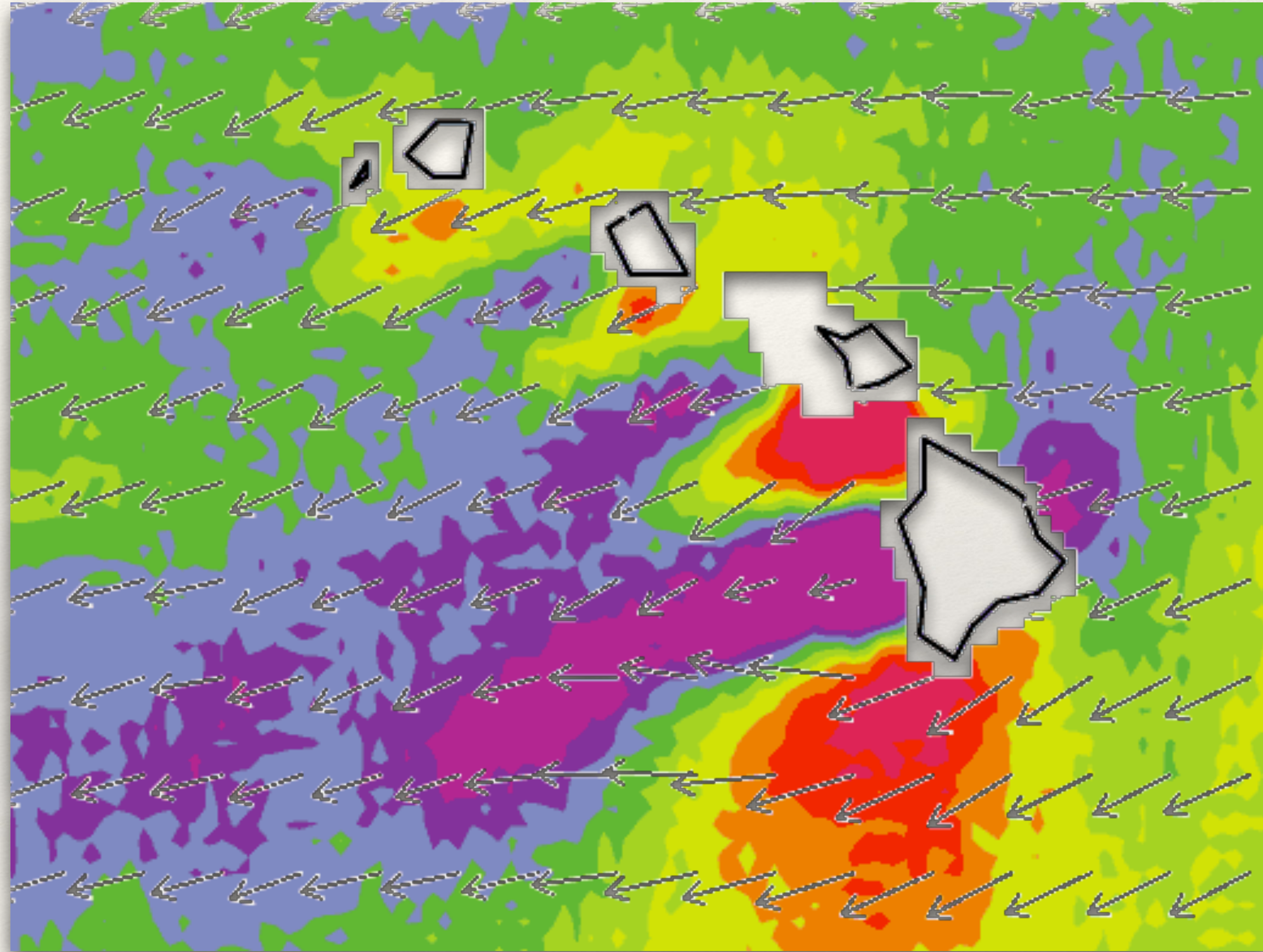


Topography of Hawaii

# CLIMATE VARIABLES

- The big island is located between  $0^\circ$  and  $30^\circ$  N with the prevailing winds from the Northeast





Prevailing Winds of Hawaii

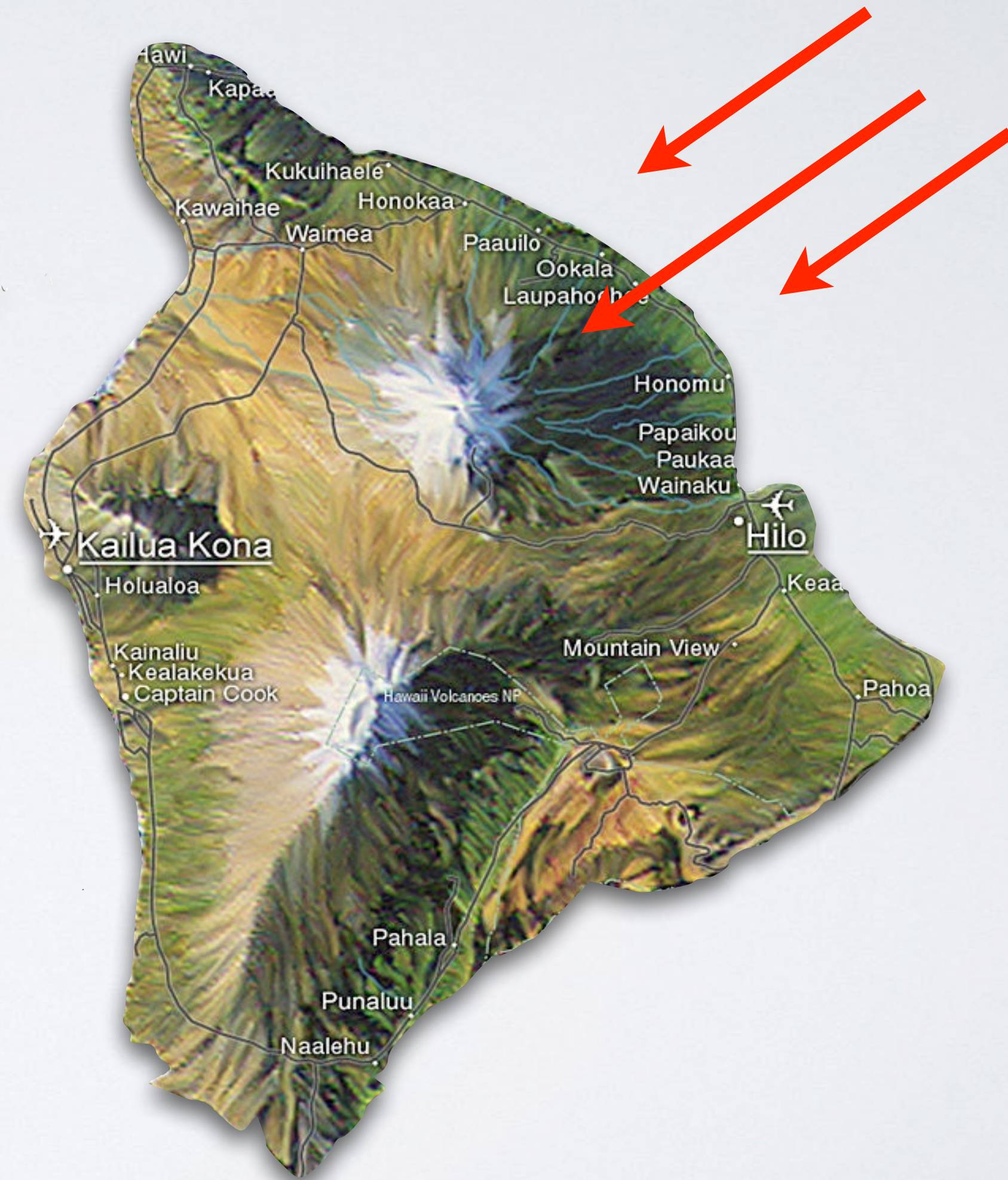
# CLIMATE VARIABLES

- Mountains that intersect prevailing winds can modify climate patterns



# CLIMATE VARIABLES

- Windward - the side the wind strikes first





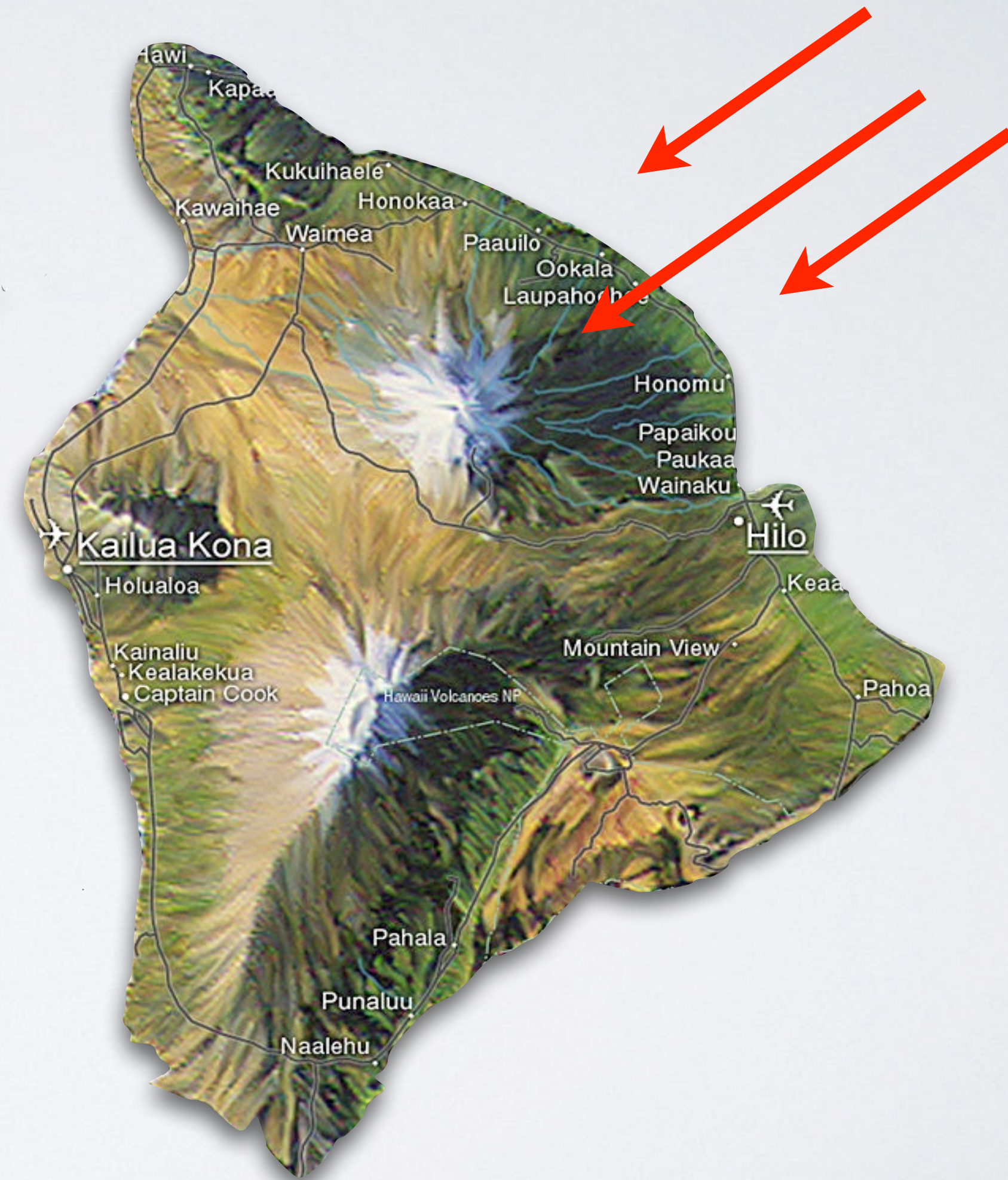
# CLIMATE VARIABLES

- Windward
  - Air rises
  - Air expands and cools
  - Air condenses and rains
  - Lots of vegetation
  - Plenty of rain



# CLIMATE VARIABLES

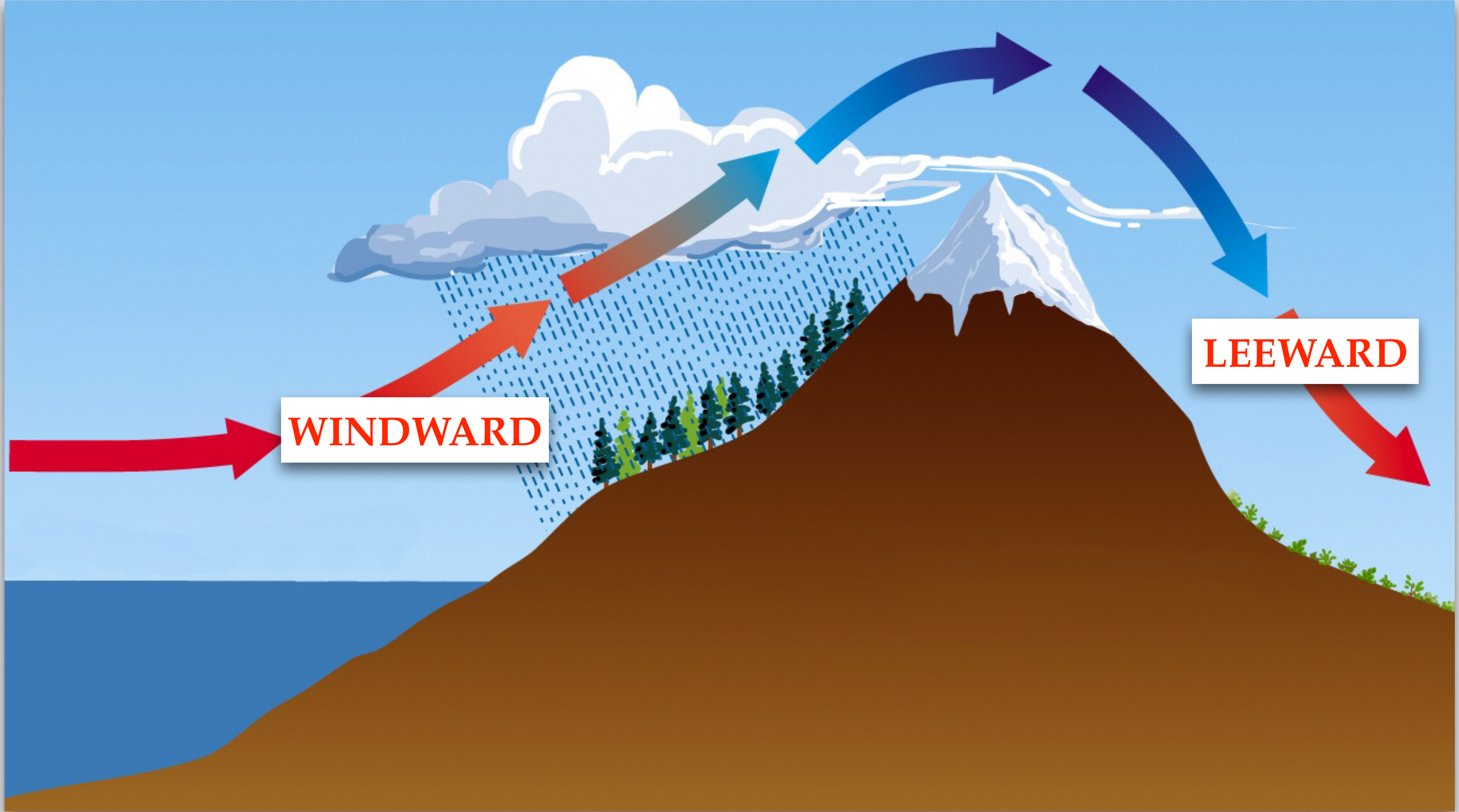
- Leeward - the side of the mountain that is sheltered from the wind



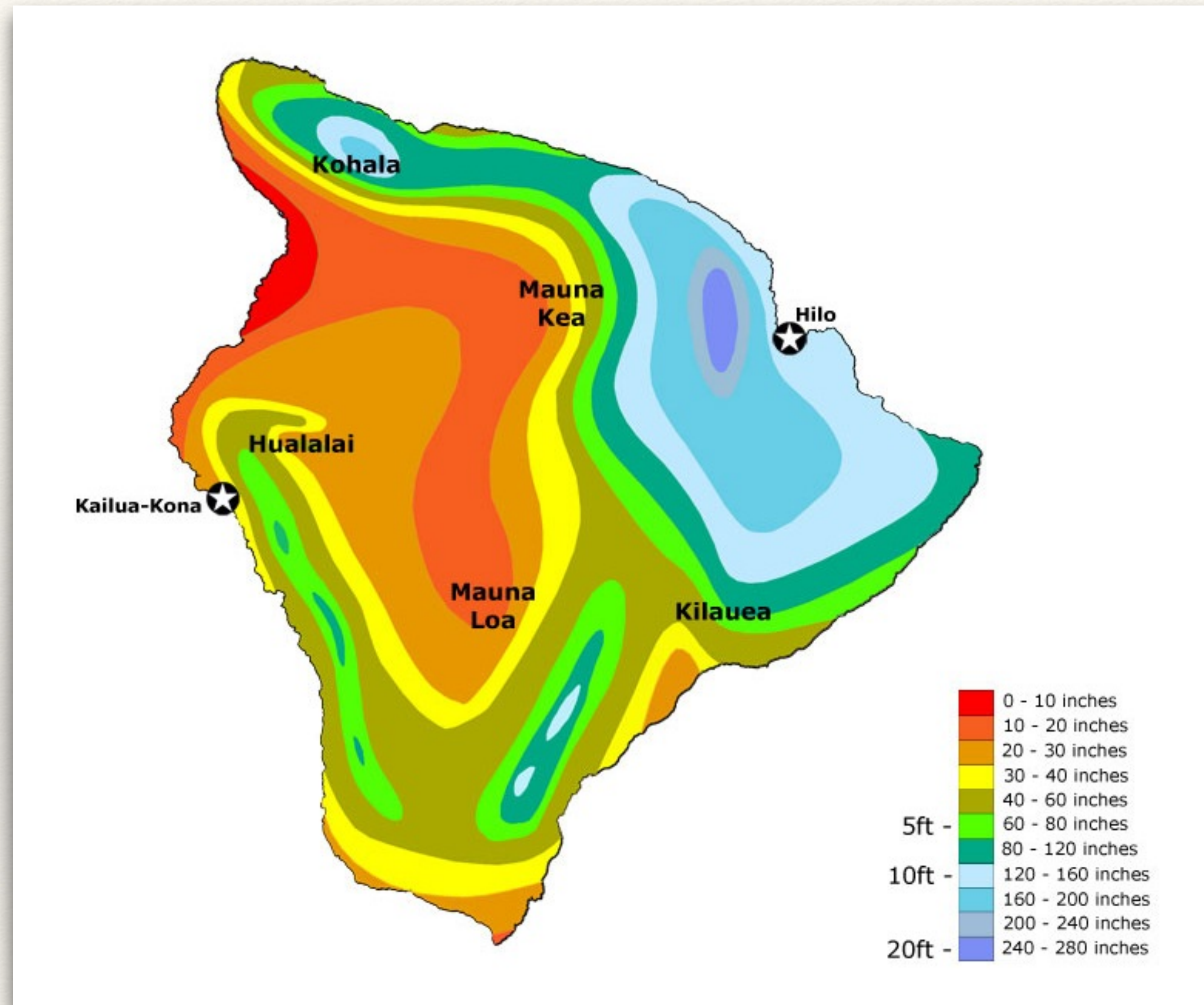
# CLIMATE VARIABLES

- Leeward
  - Air sinks
  - Air contracts
  - Air warms
  - Minimal rain
  - Minimal vegetation





R.E.C.C.



Isohyet Map of Hawaii

[earthtoleigh.com](http://earthtoleigh.com)