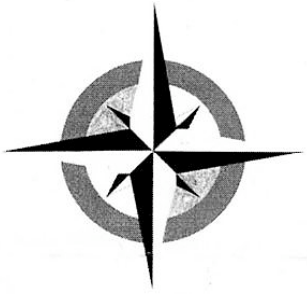
# Challenge I: Hawai'i to Rapa Nui

## *How will you stay on course?*



**Crew Name:** Waldron

**Vessel Name:** Waldron

**Date/season of embarkation:** May

**Distance of voyage in nautical miles:** 6,000 Nmi

**Expected length of journey:** 85 days

**General description of route:**

See attached table and map

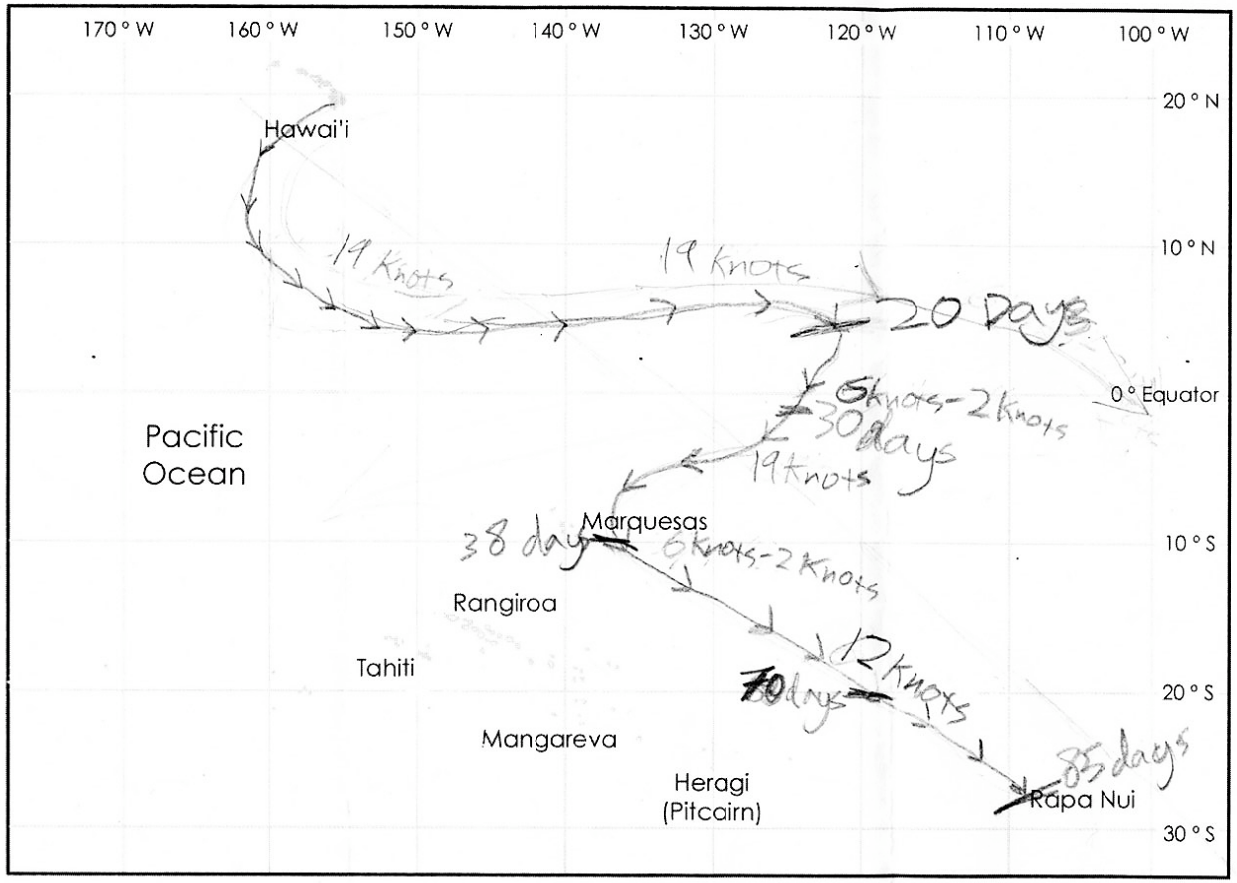
**Methods of navigation:**

I will mostley use the winds and currents to navigate but I will also use the stars at night and the sun in the day. See attatched maps.

**Other considerations:**

I will stop at the Marquesas for food and water

6,000 Nm

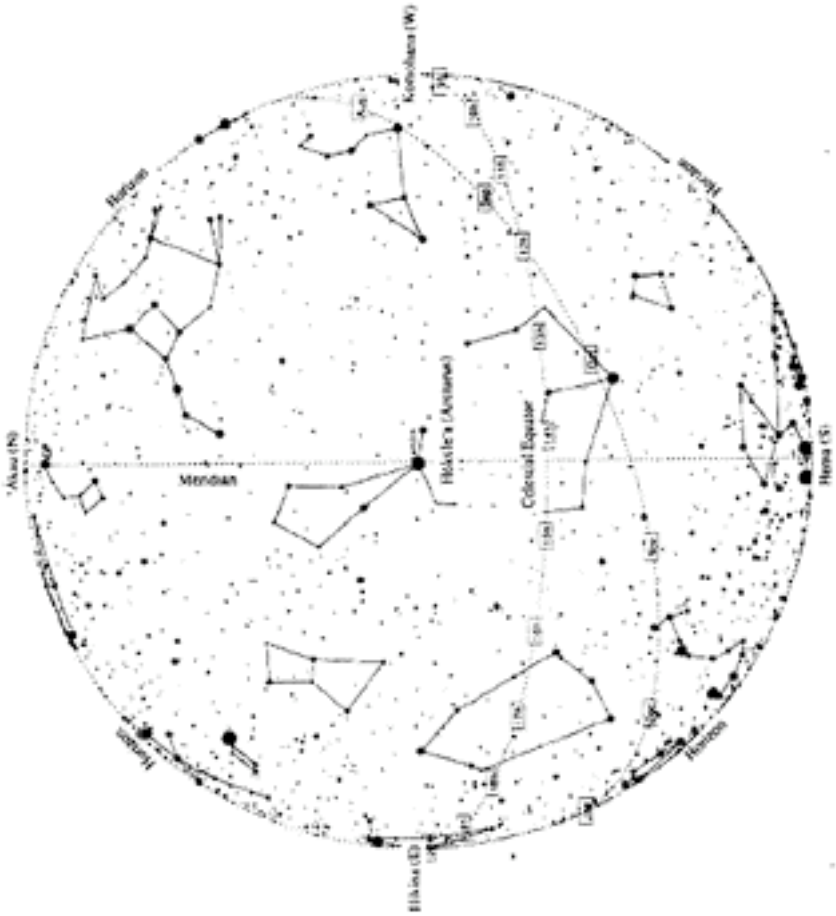



# Navigation Plan Map: Hawai'i to Rapa Nui

| latitude | longitude | direction | distance | Navigational signs |
|---|---|---|---|---|
| 20n | 155w | South | 600nm | Big island Hawaii ~~using~~ north star |
| 10n | 160w | se | 900nm | Little dipper |
| 5n | 150w | e | 1800nm | Rising sun |
| 5n | 120w | sw | 1200nm | Setting sun |
| 10s | 140w | se | 3000nm | Rising sun |
| 28s | 110w | ---------- | ---------- | ---------- |
| | | | | |
| | | | | |

Hokule'a—Hawai'i's Zenith Star
Polynesian Voyaging Society

Hōkūle'a, Hawai'i's Zenith Star, passes directly overhead at around 19° N Latitude. However, from the pitching and rolling deck of a canoe, it is hard to use a zenith star accurately to determine latitude since it is hard to determine the point directly overhead.



**Wind Driven Surface Currents: Gyres** Background