

Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

## Mapping Friendly Floatees



### Instructions:

1. Mark locations of the Friendly Floatees spill and where some of them were found on a map.

Floatee Disaster / Discovery Dates	Location	Latitude, Longitude
January 10, 1992: Floatees Overboard!	North Pacific ocean basin: Almost 29,000 rubber ducks and other bath toys in ocean	45° North (N), 178° East (E)
November 1992	Sitka, Alaska	57N, 136W
February 1993	Chichagof Island, Alaska	58N, 137W
May 1993	Cordova, Alaska	62N, 145W
June 1995	Olympic Peninsula, Washington	46N, 124W
July 1996	Kure Island, Northwest Hawaiian Islands	28N, 176W
March 1997	Lanai Island, Hawaii	21N, 157W
July 2003	Maine coast	44N, 68W
August 2003	Isle of Skye, Scotland, United Kingdom (UK)	57N, 6W
July 2007	Devon coast, England, UK	51N, 4W

2. Add the features below to your map. The “Marine debris map” from ArcGIS Online has layers for “Major Ocean Currents” and “Prevailing Winds”: <https://tinyurl.com/mr28xuzd>. Click **Details > Content** to show/hide ArcGIS Online layers.
  - **Add dark blue arrows →** to show **cold** ocean currents.
  - **Add red arrows →** to show **warm** ocean currents.
  - **Add black or gray arrows →** to show **prevailing winds**.
3. **Think about it!** Record your ideas below or in science notebooks in sentences and/or pictures.
  - a. What oceanic and/or atmospheric (air) forces made the Floatees travel so far?
  - b. What other forces and/or source(s) of energy might power these dramatic forces on Earth?
  - c. Why have oceanographers found it so valuable to collect data about the Floatees’ locations?
  - d. Where are some other places where Floatees might have been found or could still be found? Which national marine sanctuaries and/or monuments might these include? See maps of them at <https://sanctuaries.noaa.gov/about/maps.html>.