

## Methods

Ten hatchlings were collected from each of 10 natural nests at Sandy Point (Fig. 1, 2a).

Hatchlings were timed as they crossed the beach to the water's edge and collected as they reached the water; the end point of their route was marked (Fig. 2b).

All hatchling routes from nest to water were measured for distance and compass heading was recorded.

Using Oriana v4 and circular statistics, we plotted the pathways taken by the hatchlings (Fig. 1), and calculated the mean angle taken to the water  $\pm$  standard deviation (Fig. 1)

# The Path To The Sea:



California State University.

Cal Poly Center for Excellence in STEM Education (CESAME) on behalf of the

### **Results and Conclusions**

On average it took hatchlings 11.7 minutes to reach the water traveling at 0.04 m/s over a distance of 26.81 m.

Three nests (172, 173 & 177 B; denoted by \*\*) were disoriented by town lights or sky glow, however, other hatchlings took a more direct route to the water.

Currently, town lights are not a major concern for hatchling navigation except on nights when there is a lot of sky glow from town, created by light reflection on passing clouds.

