Studying times of the day the Leopard shark is in the bay

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Why we are doing this

For future students that want to know when there’s more sharks to see.

To advertise when there are sharks to sight and swim with.

For scientists who want to study lots of sharks in groups. Also, if they need to know how social they are in groups knowing when and where sharks are in certain points in the day would prove to be helpful.
Background Research

- The leopard shark prefers to be in water with a depth of 4 meters but some have been known to go as deep as about 75 meters.

- The leopard shark prefers water to be above 54 degrees Fahrenheit.

- The leopard shark prefers to feed and hunt at high tide on the shallow mud flats. When the water recedes the leopard shark goes into deeper water.
Research Question

- Are there more sharks in the bay in the morning than in the afternoon?
Hypothesis

- If it is the morning then there will be more sharks than in the afternoon.
procedures

• Get up at 6:00 a.m.
• Go to snorkeling area.
• Get snorkeling gear on.
• Snorkel in a defined area (from dock to boat).
• Record number of sharks in both morning and the afternoon.
• Repeat at 4:00 p.m.
Variables in our research project

- Time of day.
- Changes in tidal heights.
- Temperature.
Data

- Day 1 morning - 1 shark
- Day 1 afternoon - 3 sharks
- Day 2 morning - 0 sharks
- Day 2 afternoon - 21 sharks
What we learned

- That there are more sharks in the bay in the afternoon than in the morning.

- The tide in the afternoon was higher than in the morning.

- The leopard sharks prefer water temperature above 50 degrees and disperse if it goes under.
Conclusion

Are there more shark in the morning than the afternoon? If it is the morning then there will be more sharks than in the afternoon. According to our data on day 1 there was a 1:3 ratio, on day 2 we found that the ratio is 0:21, all together there was a 1:24 ratio. So according to our data it does not agree with our hypothesis.

In summary, the total shows that there are more sharks in the afternoon than in the morning.
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Bibliography

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Questions?