



ALASKA AQUA ATTITUDE

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April 2022 Palmer High School

DATA SUMMARY

The data shows how the weather fluctuates in April. We observed:

- Water level increased
- Amount of snow decreased
- Air temperatures were between 4-12 degrees celsius
- Cloud types and amounts were varied

BACKGROUND INFORMATION

Matanuska River, Palmer flows from the Matanuska Glacier to Cook Inlet



RESULTS



March 31st April 1st 2nd 3rd 4th 5th 6th 7th

"SPRING CHANGES ON THE MATNUSKA RIVER"

Date	Cloud Observations
3/30/22	0%, blue
3/31/22	90-100%, milky, High level clouds cirrocumulus, mid level clouds altostratus
4/1/22	25-50%, milky, high level clouds cirrocumulus
4/2/22	0%, pale blue
4/3/22	50-90%, light blue, high level clouds cirrostratus, mid level clouds altostratus
4/4/22	50-90%, pale blue, high level clouds cirrostratus, mid level clouds altostratus
4/5/22	10-25%, deep blue, high level clouds cirrostratus
4/6/22	10%, deep blue, high level clouds cirrostratus
4/7/22	25-50%, light blue, high level clouds cirrus

CONCLUSION

Collecting data for just one week doesn't do the Matanuska River justice. What we observed is only a small part of the overall spring changes.

VARIABLES

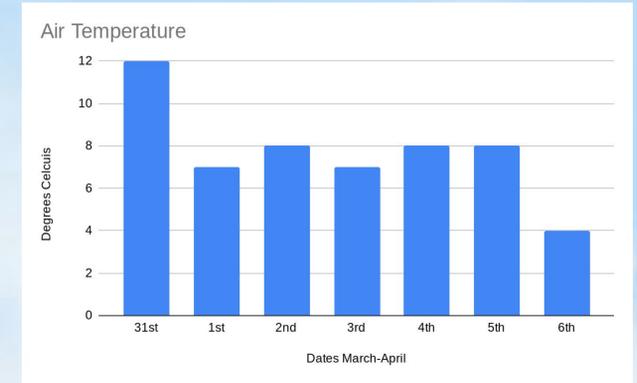
Independent - time
Dependent - ice photos, air temp, cloud observations
Controls - 2-4pm, location of photos

PROCEDURE

Our group went to the river for 8 days and accumulated photos, air temperature, and observed types of clouds.



GRAPH



ERRORS & IMPROVEMENTS

We should have collected data at a more consistent time of day and also collect water temp everyday.. We should continue to collect data for another month.