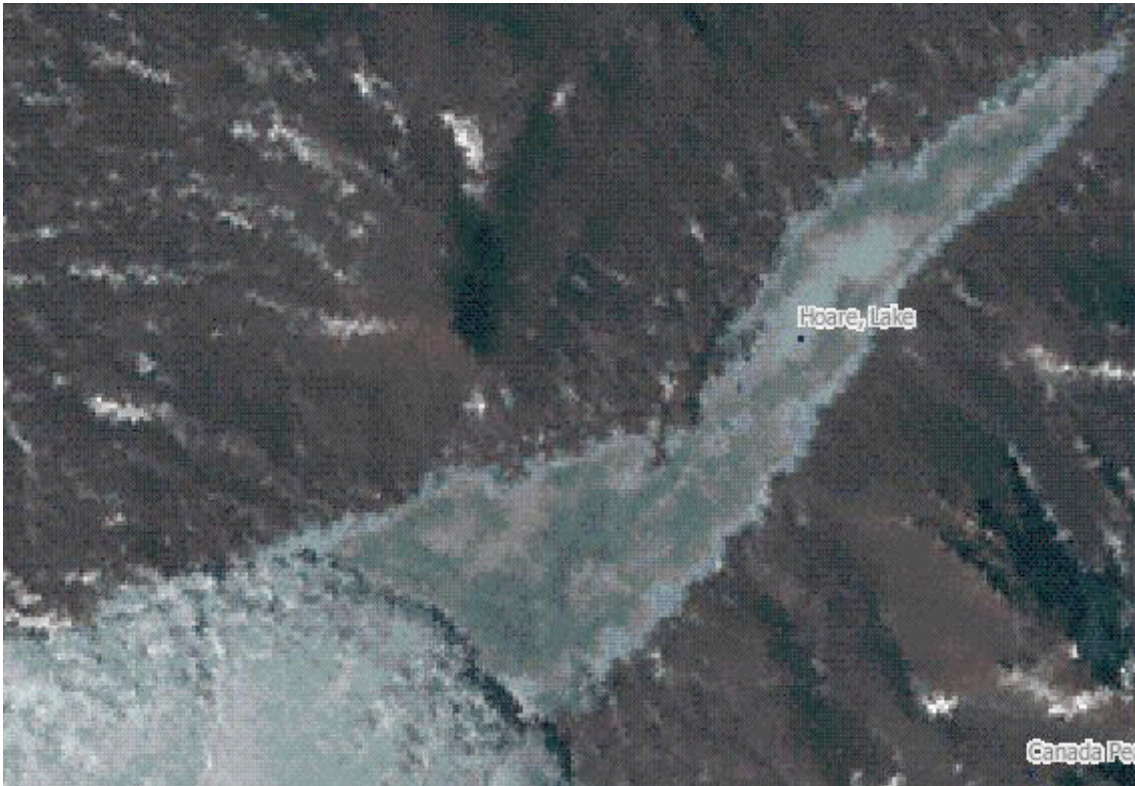


Team Member's Names: Lily and Emma  
School: Mount Vernon Middle School, Mount Vernon, IA  
Teacher: Mrs. Scarce

Proposal:

Lima says that it's a lake about 2 mi long between Lake Chad and Canada Glacier in Taylor Valley, Victoria Land. Named by the 8th VUWAE, 1963-64, for physicist R.A. Hoare, a member of VUWAE that examined lakes in Taylor, Wright, and Victoria Valleys.



**Latitude – 77.6333333      Longitude 162.85**



Hoare Lake is a long lake that looks like it goes down into a frozen waterfall. The blue ice shows us that it has been melted and frozen multiple times. We think it is scientifically interesting because it might be a predictor of global warming.

We think that this lake was formed from melt water from the surrounding glaciers. Since it's in Wright valley not much precipitation falls. We are curious about the results of water testing like pH and salinity and if the lake level is constant.

The picture below is Hoare Lake covered in ice.

We were wondering what the black and brown substance is? It looks like it could be aeolian sand.



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Photograph by Maria Stenzel

We think that we should be funded to investigate this Antarctic feature because we think it is really interesting and we would like to find out if it has been totally refrozen or if there is some liquid water at times. We would like to know if there really is a frozen water fall leading off at the end of the lake. We would also like to know if the lake has fresh or salt water.



This is an image of people sampling Hoare lake. They had to put a walk board across it to take the sample. This picture helps tell us what we were seeing in the LIMA mosaic.

We think that to find out if global warming is affecting the lake, we could see if it used to be melted or frozen with satellite imagery over a certain time period.

The summer in Antarctica will probably be a time when melt water would be more likely. We could measure whether there has been more time lately that the ice has been melted due to global warming.



*Thank you for considering our proposal.*