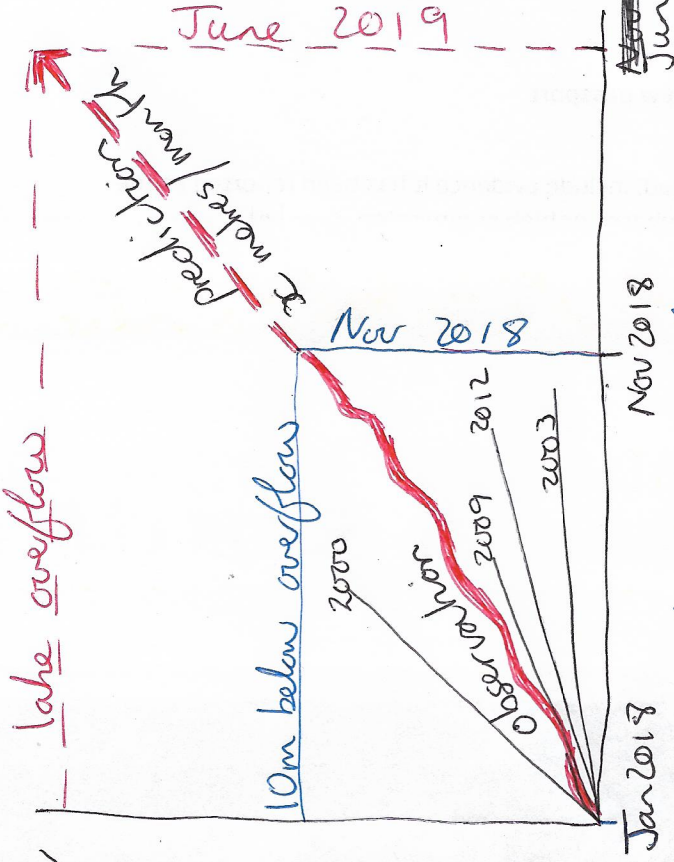


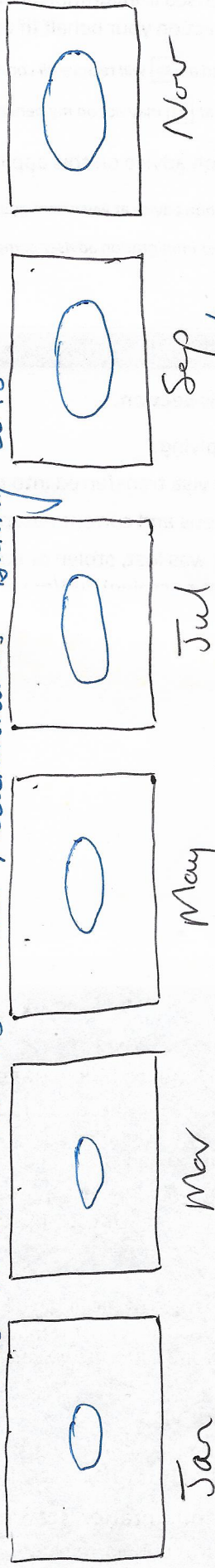
WHITE ISLAND CRATER LAKE EXPECTED TO OVERFLOW IN JUNE 2019

The water level in the crater lake at WI has risen 10m so far in 2018. The lake is currently 10 metres below overflowing. If it continues to rise at the same rate, it will overflow the lake confines about June 2019.

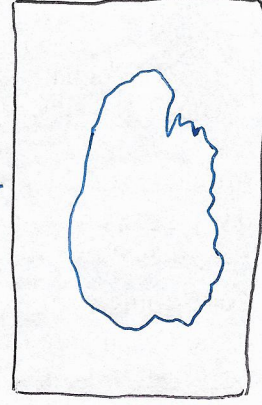


The lake has risen in a similar fashion 5 times in the last 15 years. But has always stopped ~~before~~ ~~or~~ rising before actually overflowing

Crater Lake Grows as Water Accumulates During



Measuring water level rise



As access to the lake is difficult because of steep slopes and soft ground, we have not measured water level directly. Instead we have used webcam photos ~~to estimate~~ with a terrain model constructed using aerial photos taken by a drone.

The water level rises largely for two reasons

- Rainfall
- Condensing steam from vents under the lake

So far in 2018, about 1.3m of water has fallen on the crater lake. The lake receives water from an area 6 times larger than the lake, so rainfall has contributed a total of $6 \times 1.3\text{m} = 7.8\text{m}$ of the rising lake, about 70%. The remainder comes from condensing steam from vents under the lake.