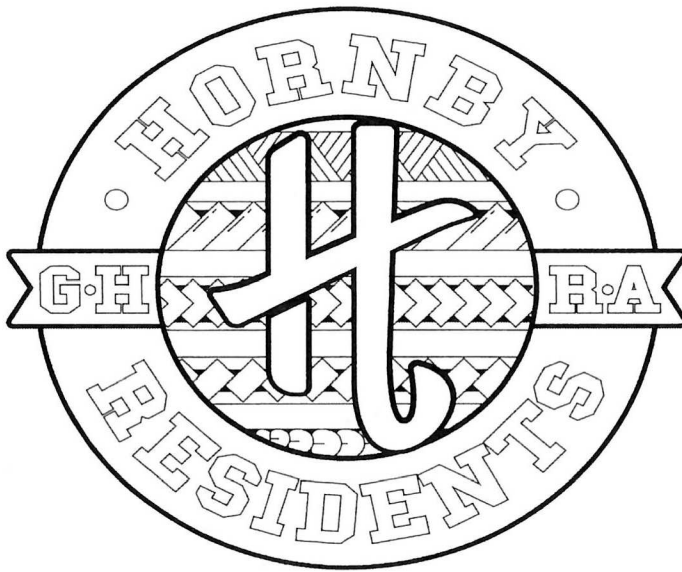


TABLED AT HEARING

Application: Joint Hearing
Fulton Hogan Ltd
Date: 22 Nov 2019



22 November 2019

Good Morning.

I am here to speak to The Greater Hornby Residents Association's submission.

We have based our submission on Climate Change and future migration as a result of the quarry's application.

Please understand we do not disagree with the other submissions which show concern at the effects of both PM4 and PM10. As even Fulton Hogan will agree Silicosis is a problem.

Just this week, we have seen a fore runner, of what we can expect to see in the future, with probably even worse to come with predicted weather changes.

Antarctica has started to melt at an even faster pace than the Climate Change Experts expected which means possible higher levels of Sea Level Rise than current data shows.

The climate that Kaiapoi; Christchurch City and Selwyn currently live in is set to change dramatically over the next few decades.

We have included maps of these area which show the effects of flooding occurring through climate change.

It shows Kaiapoi; Eastern Christchurch and even Lincoln being inundated by water.

This means thousands of households will have to migrate to new living areas. The logical location, is the areas around the main arterial roads into the City, for instance Main South Rd. and West Coast Rd. as well as the area between and towards Rolleston.

Main South Road has the advantage of the railway line to provide future commuter rail.

Another major factor, with both Climate and Migration is the Alpine Fault. This will certainly affect where people can live.

As far back as the 1990's, we were advised that there will be major liquefaction problems in Canterbury. Living in the Inland Rd. at the time we received the Hurinui News that informed us that virtually all land, east of the motorway, north of Christchurch will disappear under water.

We have seen what happened as a result of the Christchurch earthquakes in the east with liquefaction.

The Alpine Fault's initial shake is expected to last at least 4 minutes, and while it may not be as severe, we have been told the level of liquefaction, will be far more severe, due to the longevity of the shaking. Ground levels will sink further, adding to the effects of Climate change through out all of these areas.

What is of further concern, can be seen in the photo, of the immediate area of Templeton, and the surrounding area, as well as Islington and Hornby.

PM4 and PM10 dust will be thrown high into the air and driven forward by the oncoming shock waves following behind. The Earth Bunds proposed will be absolutely useless, when this happens.

Remember we have all been told, it is not a matter of if, but when, this fault lets go. The fault has been predicted, by many of the experts on Project A.F.8 to let go within the next 30 years, which is within the predicted life span of the quarry's life.

In short, it makes absolutely no sense to place a quarry next door to a built up area, in these circumstances.

Fulton Hogan want this quarry placed here so they can make maximum profit, while if they were to place it east of Old West Coast Rd., or at the dried up portion of the Selwyn River, their profits would not be as high. Perhaps one in either location would be a much better solution as they could cover a wider circumference, and hence, possible more profit, while not having the same effect on as large number of neighbours.

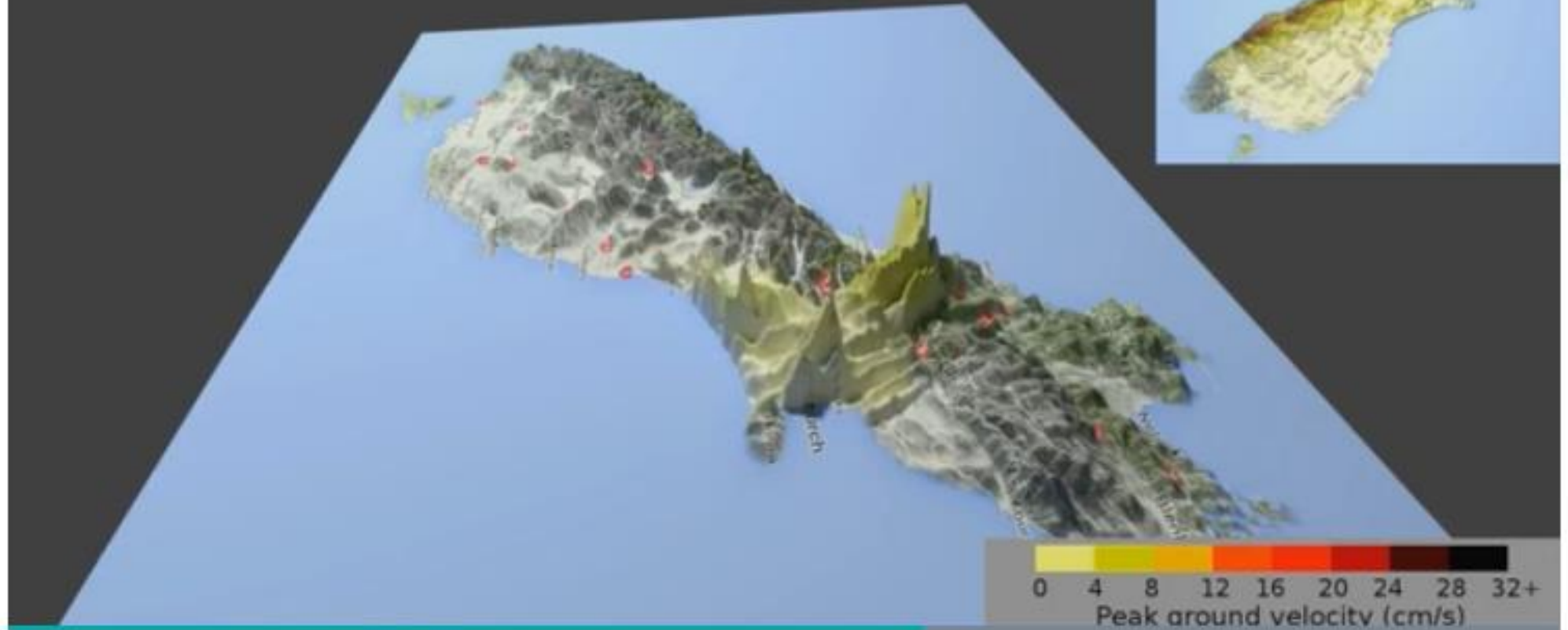
Please remember people's health is far more important than profit.

Should this quarry proceed very stringent regulations should be imposed, with monitoring stations located as far away, as within Templeton itself, and they should be monitored at least monthly and possibly even as often as fortnightly. At the cost given to me by K2 Environmental Ltd., these costs would be very expensive and should be carried out by an independent company which would then show impartiality.

We would further request that all future alterations to any, and all regulations, regarding quarrying of any kind, be added to any consent given so only best practice can be followed.

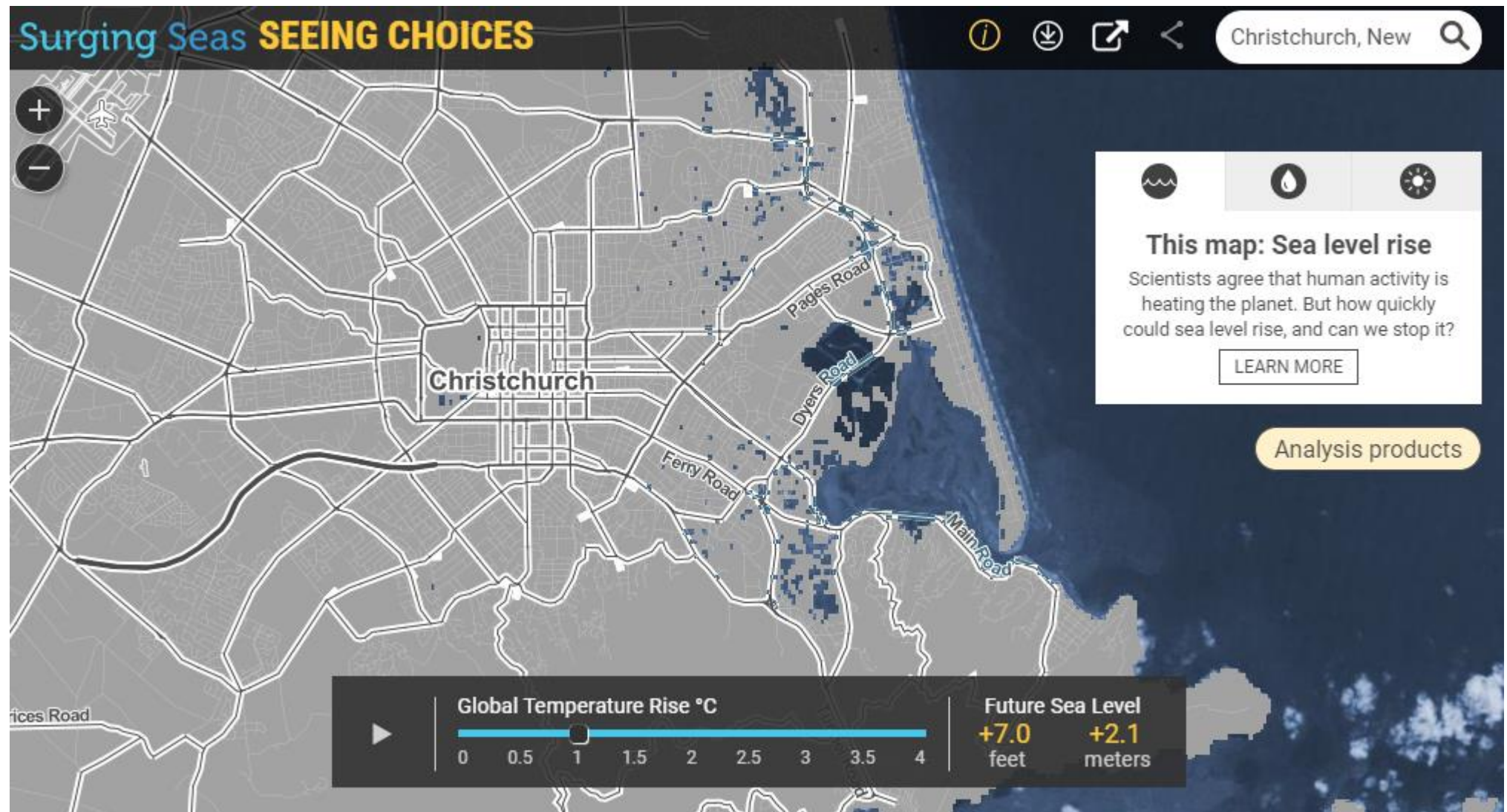
Rupture time 2:39

Alpine Fault Earthquake Modelling

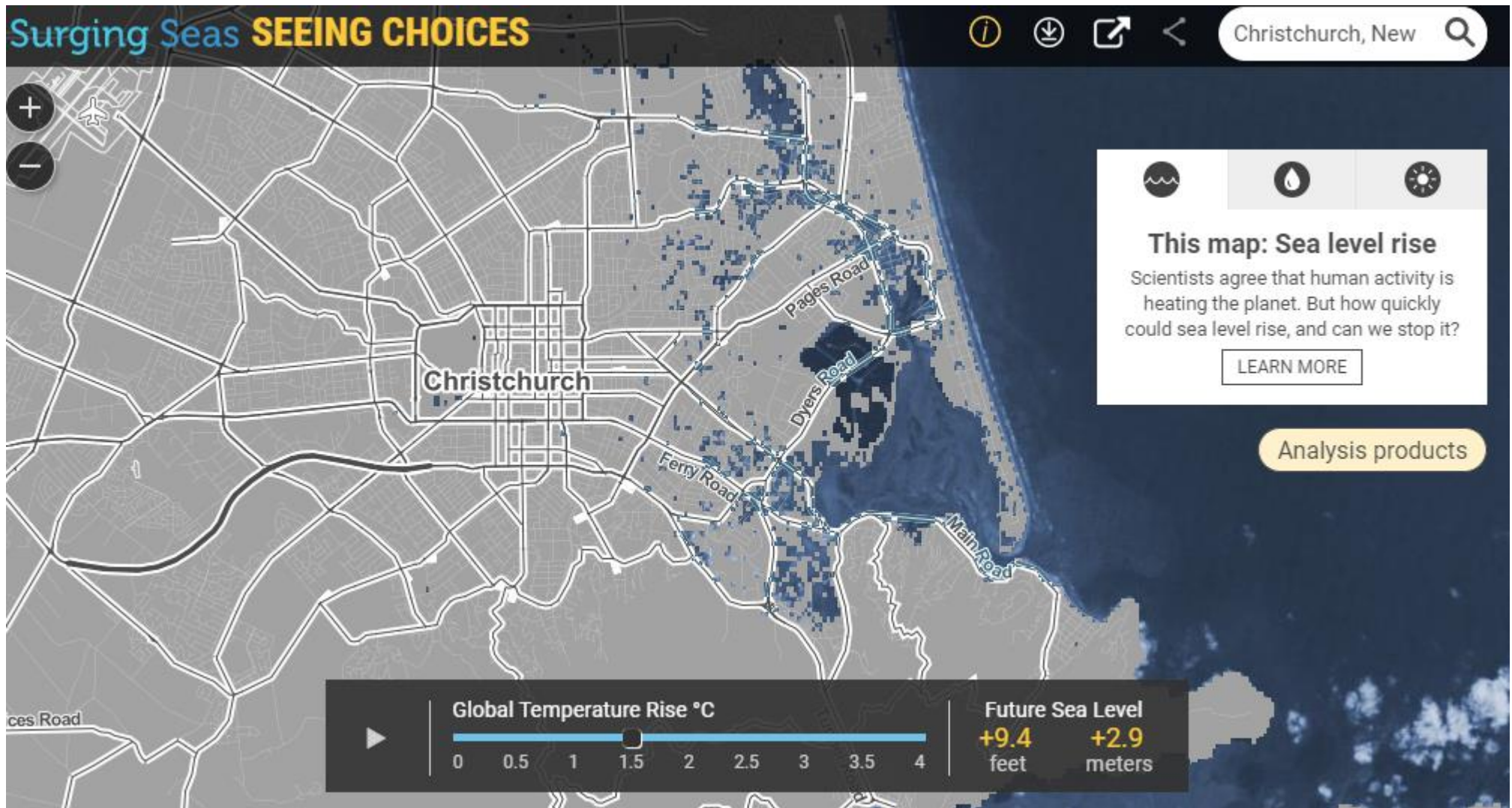


EMSOUTHLAND/YOUTUBE

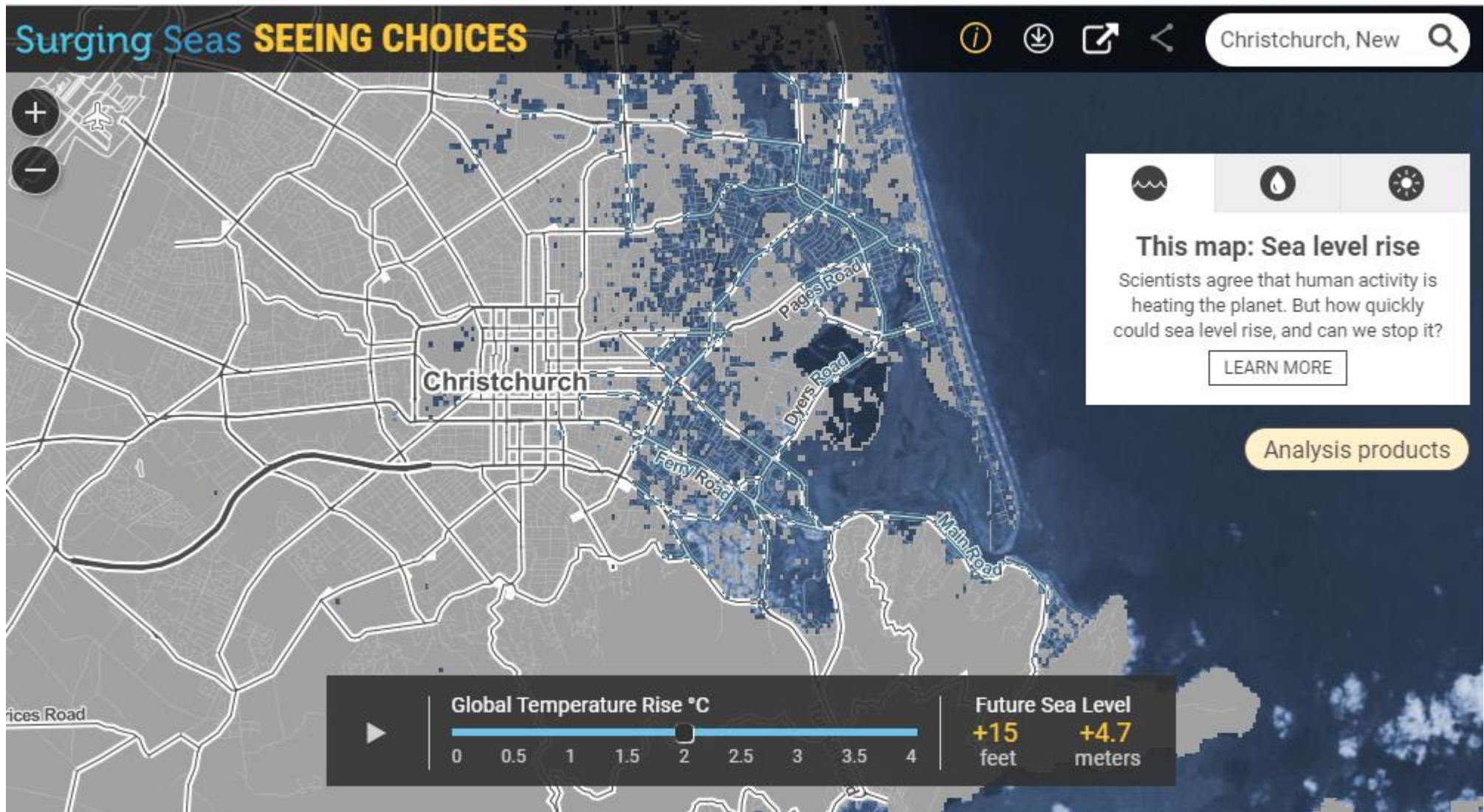
Sea Level Rise (Christchurch) Temperature rise - 1 Degree celsius



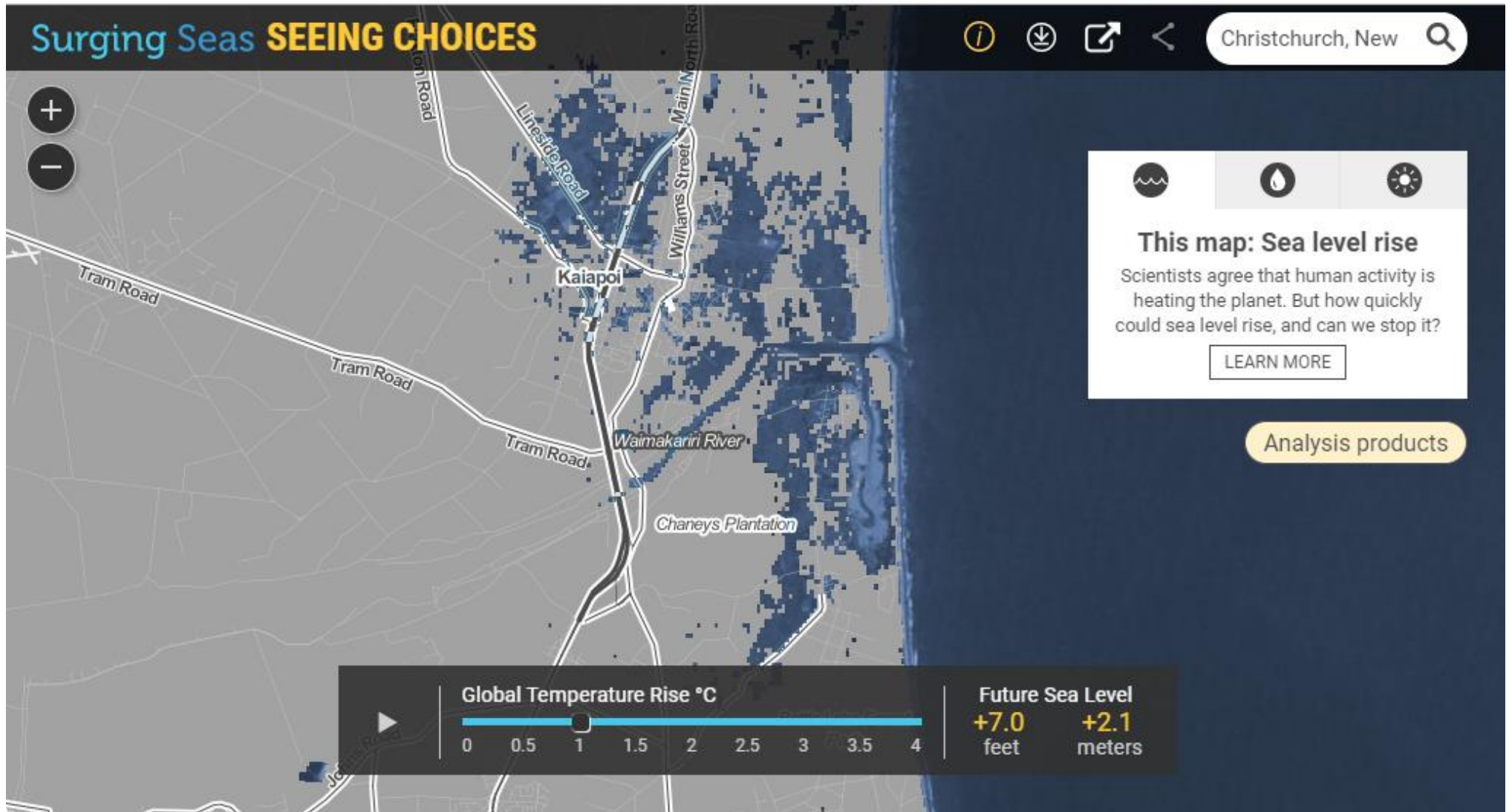
Sea Level Rise (Christchurch) Temperature rise – 1.5 Degree celsius



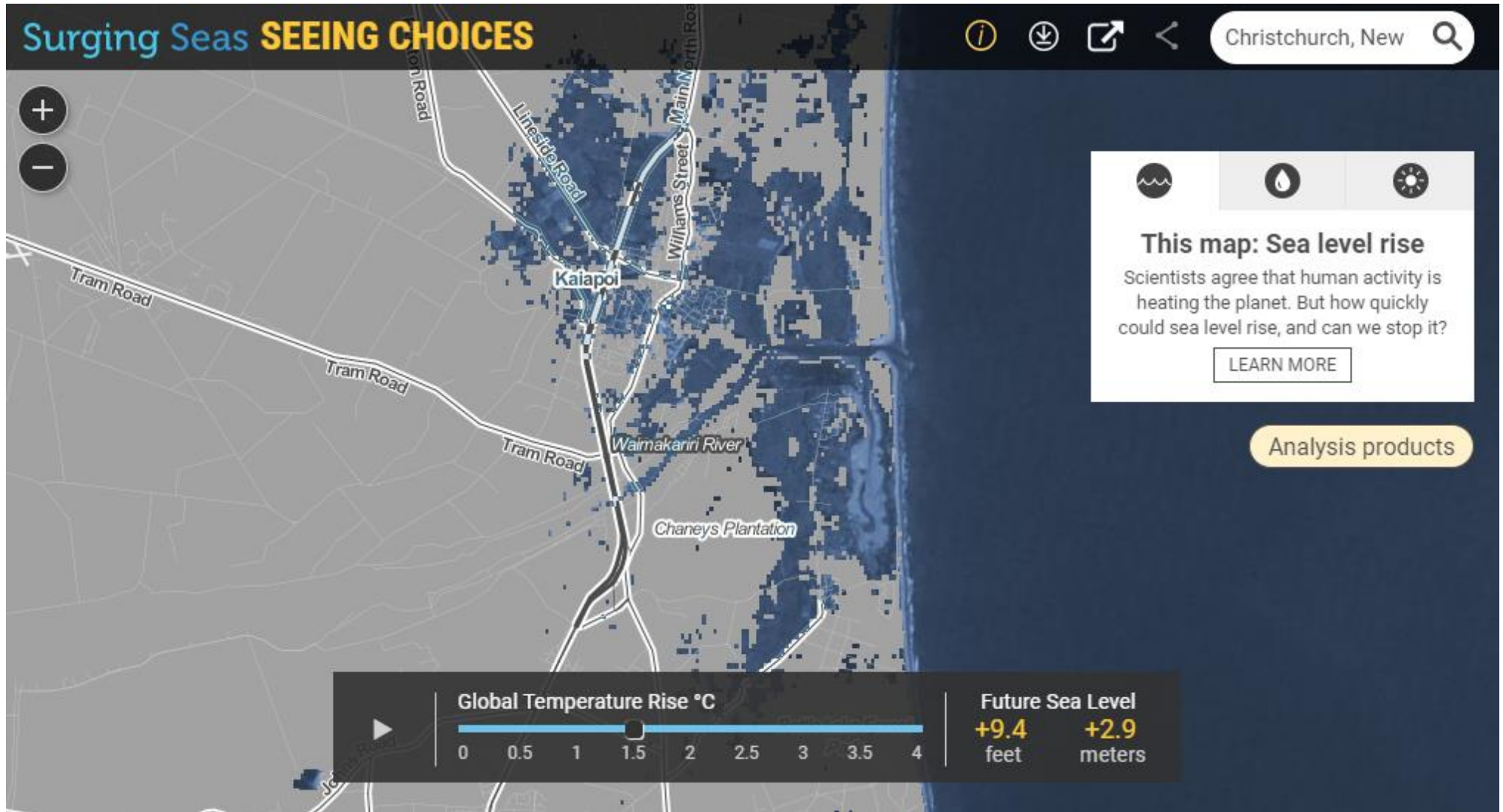
Sea Level Rise (Christchurch) Temperature rise – 2.0 Degree celsius



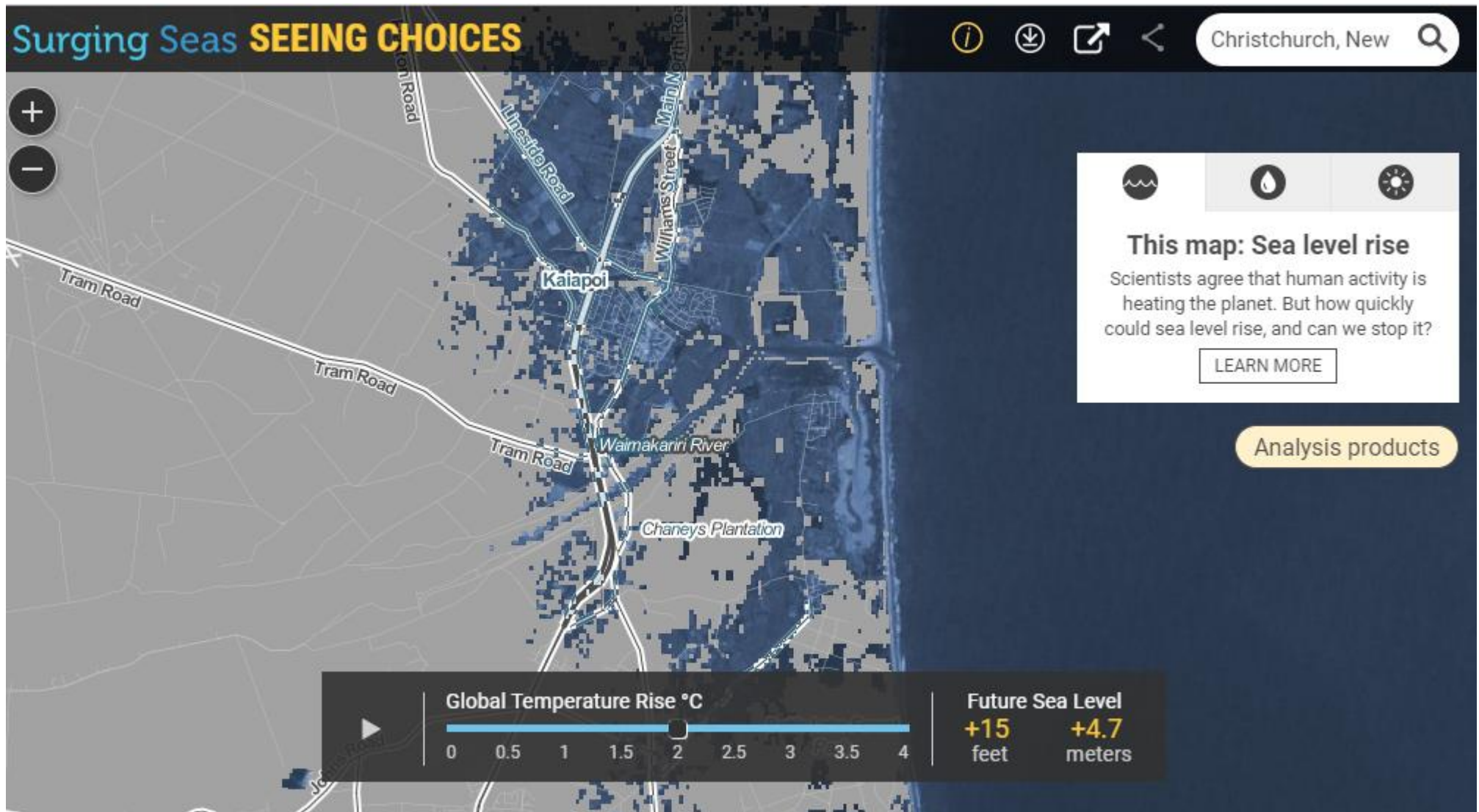
Sea Level Rise (Kaiapoi) Temperature rise - 1 Degree celsius



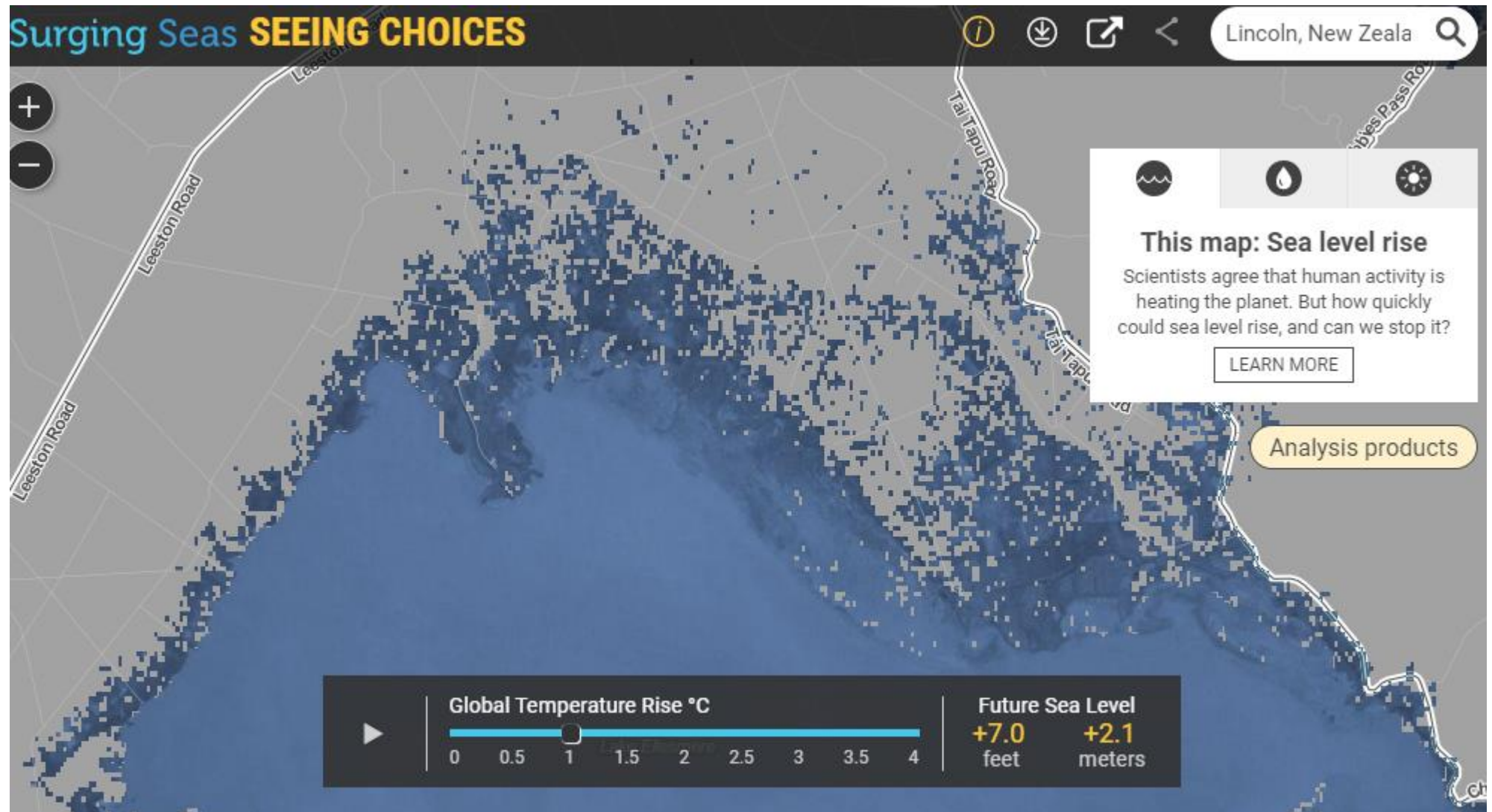
Sea Level Rise (Kaiapoi) Temperature rise – 1.5 Degree celsius



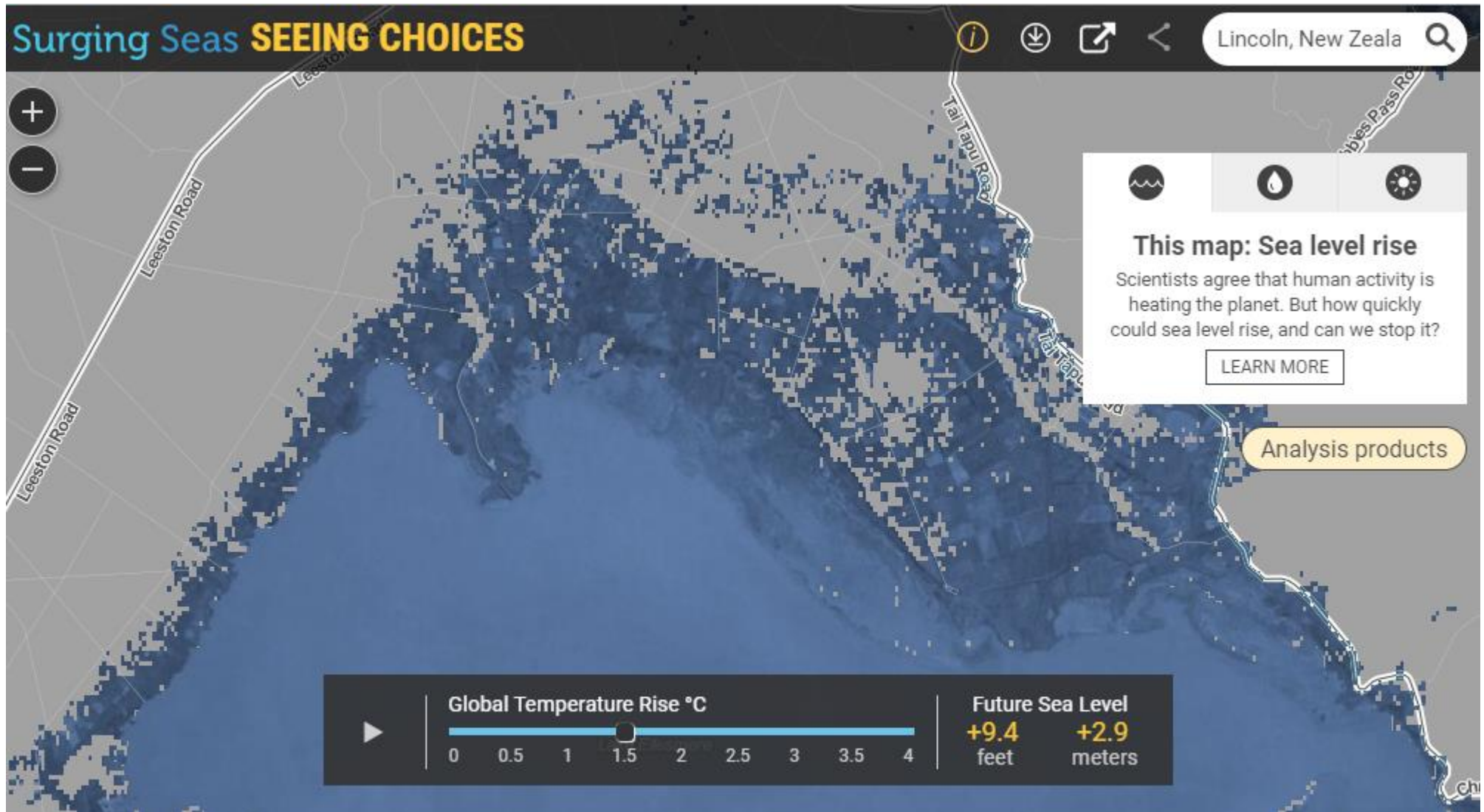
Sea Level Rise (Kaiapoi) Temperature rise – 2.0 Degree celsius



Sea Level Rise (Lincoln) Temperature rise - 1 Degree celsius



Sea Level Rise (Lincoln) Temperature rise – 1.5 Degree celsius



Sea Level Rise (Lincoln) Temperature rise – 2.0 Degree celsius

