

MELBOURNE

Comparison between 2016 IFDs and ARR87 IFDs

This document contains maps showing the percentage differences between the 2016 IFDs and the ARR87 IFDs for Melbourne.

- Blue grid cells indicate areas where the 2016 IFDs are greater than the ARR87 IFDs
- Red grid cells indicate areas where the 2016 IFDs are less than the ARR87 IFDs
- No colour indicates areas where there has been less than +/- 10% change.

As can be seen from the maps, there are differences between the 2016 IFDs and the ARR87 IFDs in some locations; with the 2016 IFDs being greater than or lesser than the ARR87 IFD estimates.

The changes around each location are unique. Users may seek support from the Bureau's technical team for interpretation via ifdrevision@bom.gov.au

The comparison maps are provided for the following durations and Annual Exceedance Probabilities (AEP):

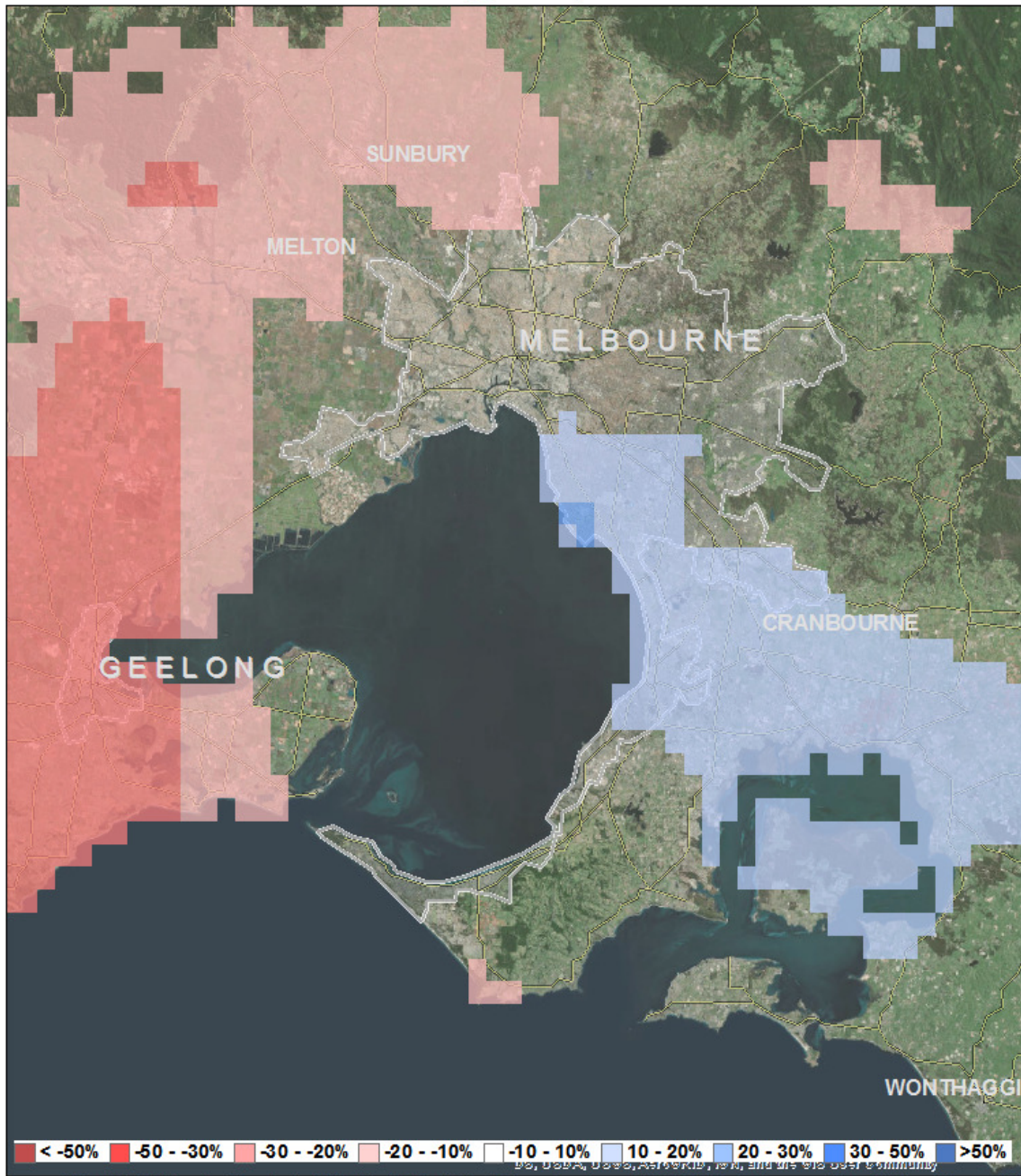
- 1 hour; 50% AEP (equivalent to 1.44 years Average Recurrence Interval, ARI)
- 12 hour; 50% AEP
- 72 hour; 50% AEP
- 1 hour; 2% AEP (equivalent to 50 years ARI)
- 12 hour; 2% AEP
- 72 hour; 2% AEP

These durations and AEPs were selected as they represent the six master charts contained in Volume 2 of the 1987 edition of Australian Rainfall and Runoff.

Note:

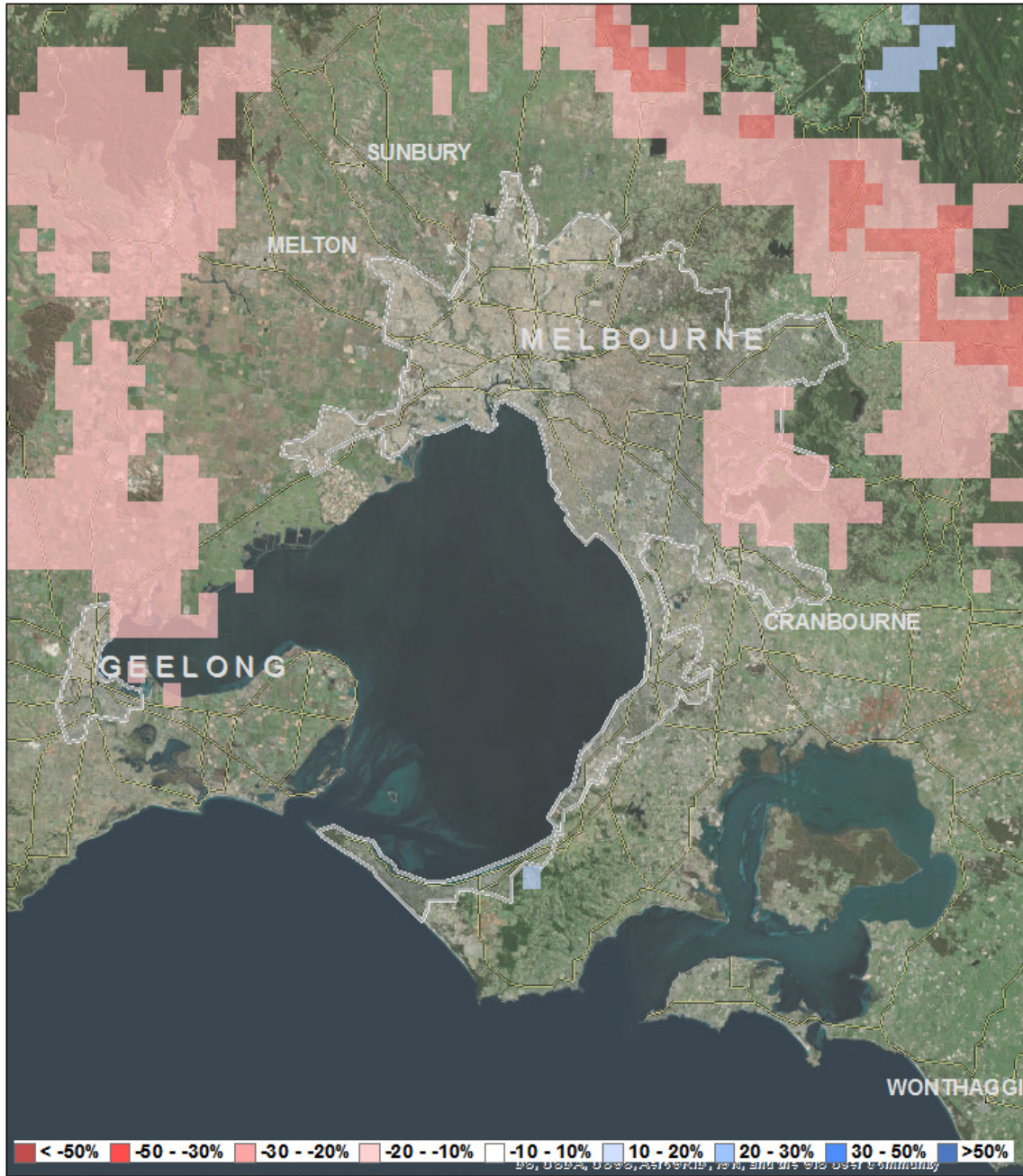
- In order to be able to compare the 2016 IFDs to the ARR87 IFDs, the ARR87 values have been converted from ARI to AEP. Further information on AEPs and ARIs can be found in "New ARR Probability Terminology"
<http://www.bom.gov.au/water/designRainfalls/ifd/ifd-faq.shtml#question8>
- The differences between the 2016 IFDs and the ARR87 IFDs have been calculated using the following equation:
Percentage difference = (2016 IFDs – ARR87 IFDs) * 100 / ARR87 IFDs

Percent Change: 1hr, 50% AEP



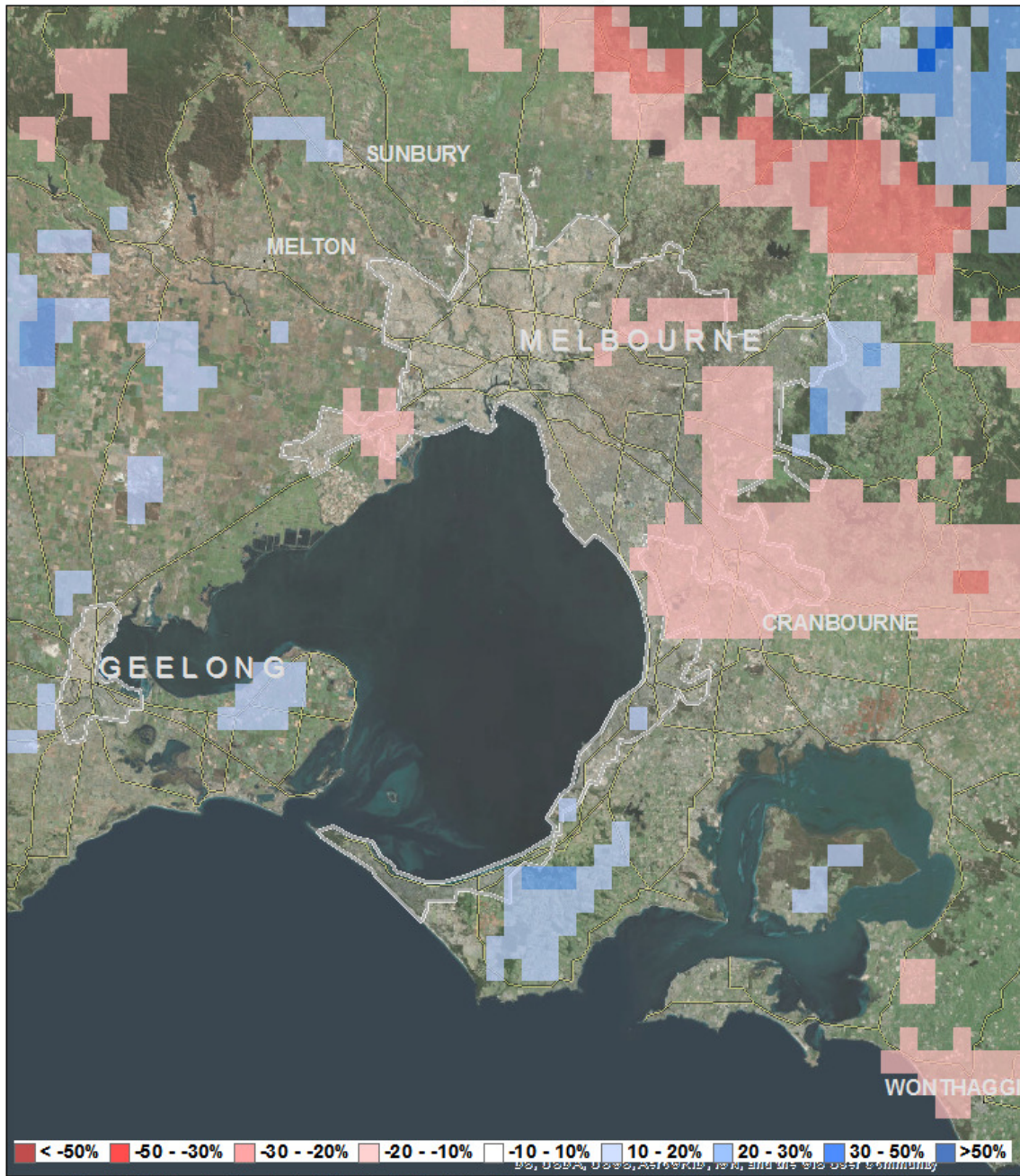
Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Percent Change: 12hr, 50% AEP



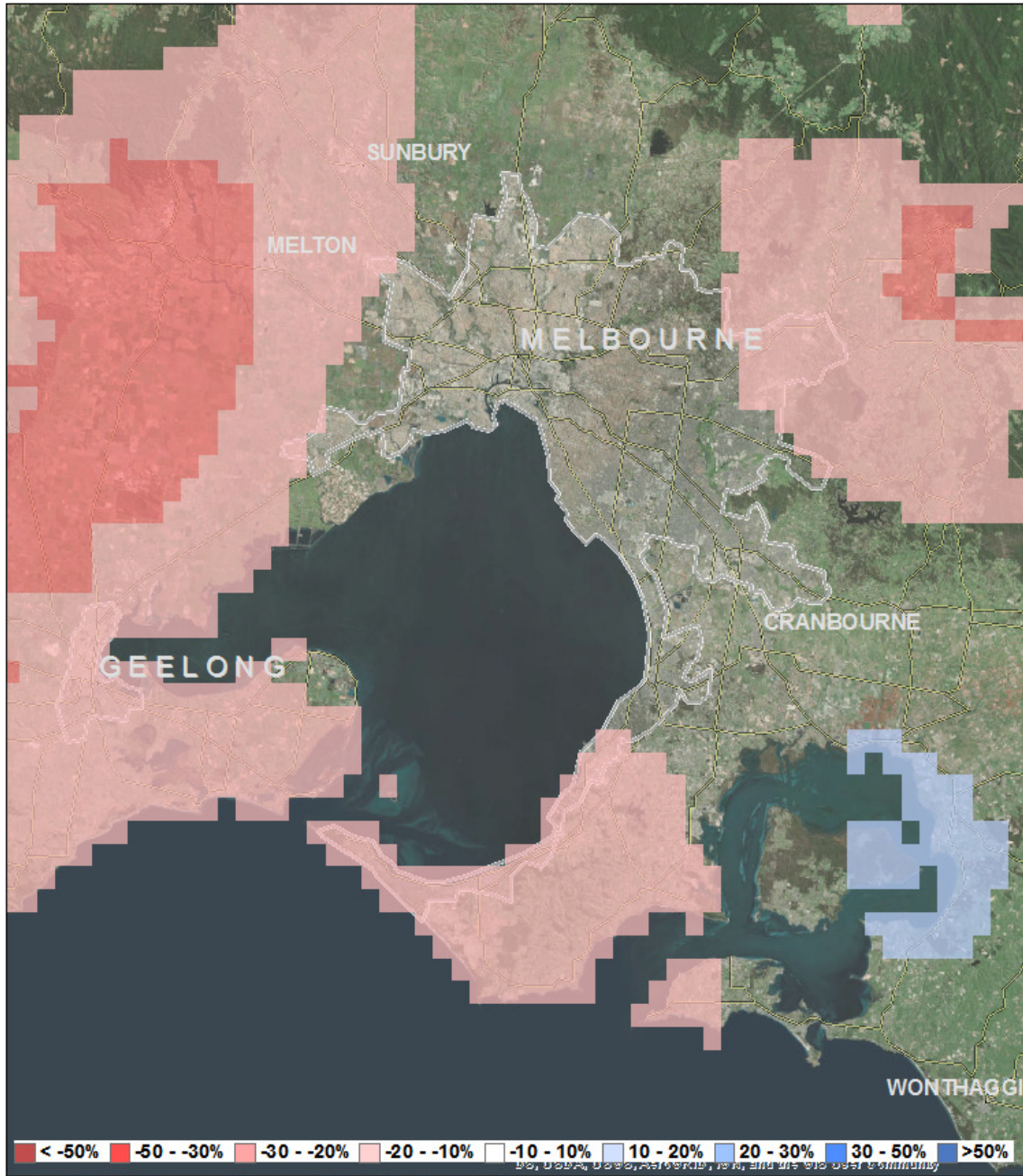
Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Percent Change: 72hr, 50% AEP



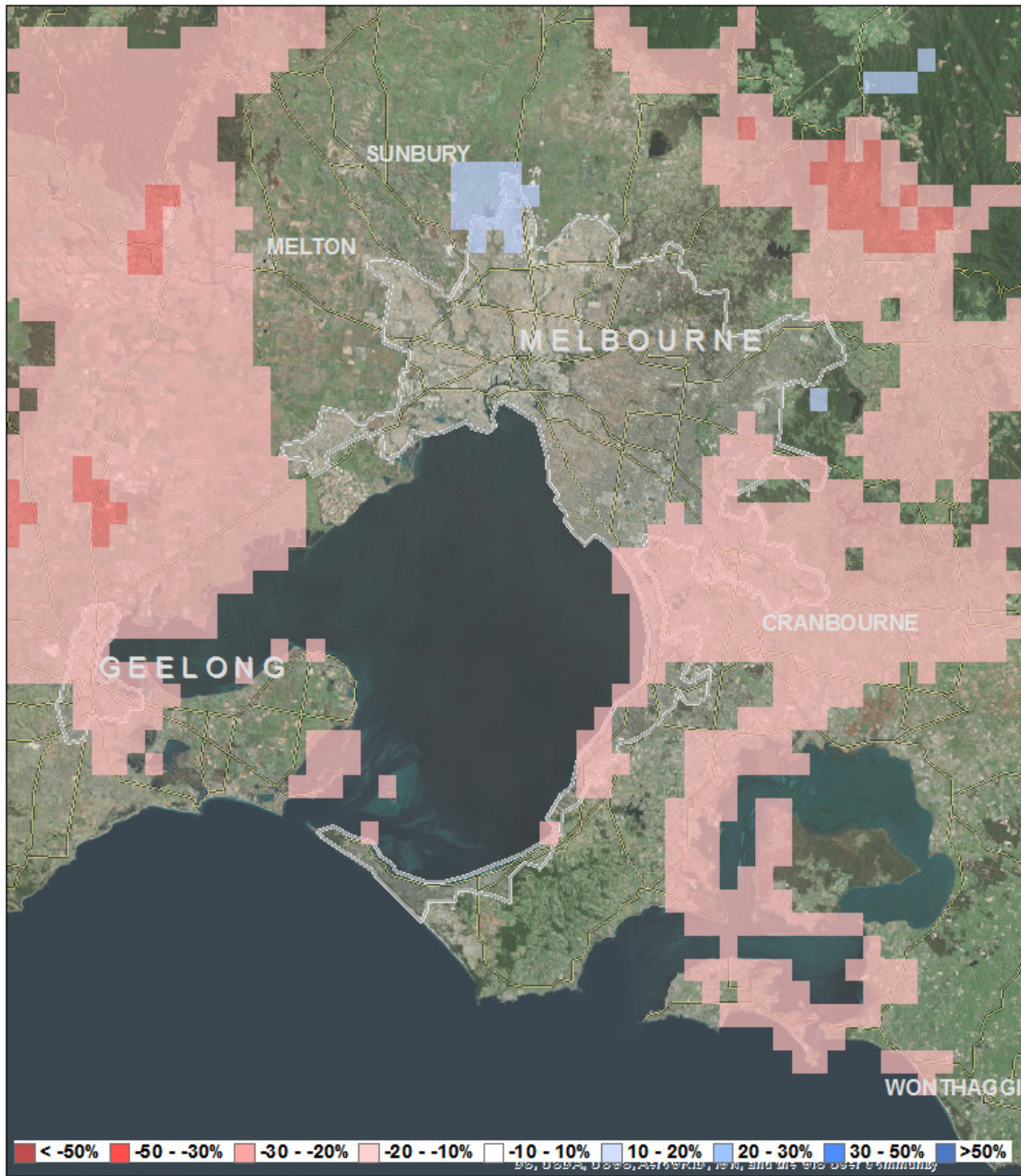
Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Percent Change: 1hr, 2% AEP



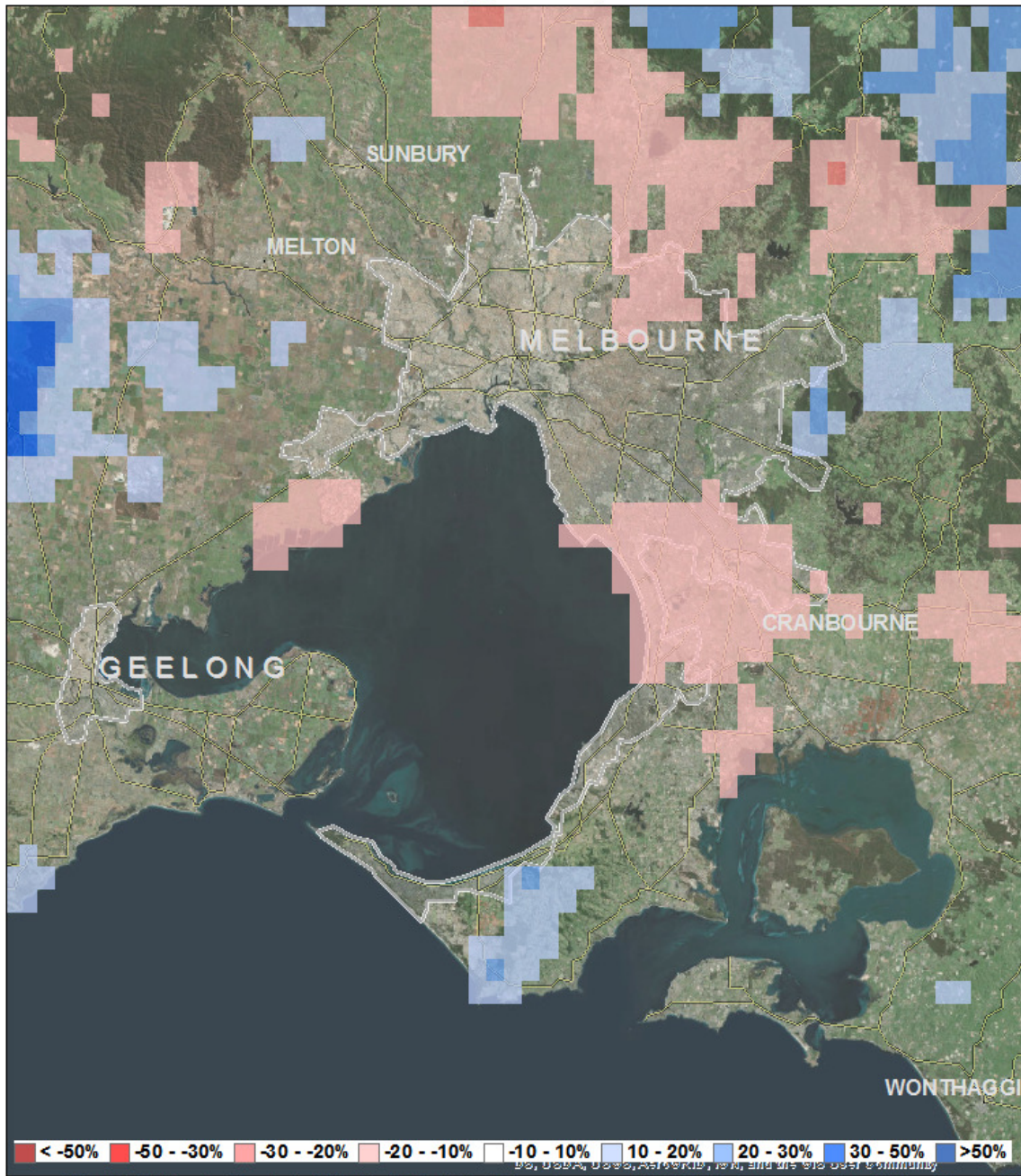
Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Percent Change: 12hr, 2% AEP



Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Percent Change: 72hr, 2% AEP



Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community