

HadISDH Update Document

Date of Document Modification:

2nd February 2017

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New Version Number vX.Y.Z.0000p/f:

V3.0.0.2016p

Major Changes X:

HadISDH is now using a major new version of the source dataset HadISD (v2.0.1.2016p). The new HadISD dataset now has 7877 stations as opposed to 6103 - station selection will be revisited annually rather than being static as previously. The merging methodology has been automated to a greater degree and can now be run annually. There are 1993 composite stations within the complete list. For Germany and Canada, specific stations are merged based on known changes to the source IDs. The QC code for HadISD has been updated to include various improvements to threshold sensitivities for the distributional gap, streak, spike and unusual variance tests. The neighbour check station selection has also been improved. Using the new HadISD results in ~400 stations more for each HadISDH variable. Some stations will inevitably have been lost due to the new station selection and ISD archive changes.

Minor Changes Y:

All processing steps for HadISDH remain identical apart from the removal of stations with very large homogeneity adjustments. Previously, any stations with adjustments in dry bulb temperature greater than 5 degrees Celsius were removed. Now we additionally remove any stations which have adjustments in dew point temperature greater than 5 degrees Celsius. This results in a removal of 29 stations in total. Given the Major Change X above we have not incremented a Minor Change Y.

Bug fixes /historical data updates Z:

Retrospective improvements to the historical data in the ISD archive are ongoing and have been incorporated here where stations appear in previous and this new HadISDH version. These have not been documented. Given the Major Change X above we have not incremented a Change Z.

New Start Date DD.MM.YYYY:

No change

New End Date DD.MM.YYYY:

31.12.2016

New hadisdhTable:

No change - URL:<http://cedadocs.badc.rl.ac.uk/1267/>

New Reference:

No change