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Supplement of

Comparison of the impacts of urban development and climate change on exposing European cities to pluvial flooding

Per Skougaard Kaspersen et al.

Correspondence to: Per Skougaard Kaspersen (pskk@dtu.dk)

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Supplementary materials

| Sensor | France | Austria | Denmark | France |
|--------|--------|---------|---------|--------|
|        | Strasbourg | Vienna | Odense | Nice |
|        | a | b | a | b | a | b | a | b |
| Linear regression parameters | -246 | 135 | -244 | 124 | -245 | 135 | -321 | 151 |

Table S1: Linear regression models used to calculate impervious surface fractions based on SAVI (from Kaspersen et al., 2015).

| Sensor | France | Austria | Denmark | France |
|--------|--------|---------|---------|--------|
|        | Strasbourg | Vienna | Odense | Nice |
|        | TM | OLI | TM | OLI | TM | OLI | TM | OLI |
| Path/Row | 196/26 | 196/26 | 196/26 | 195/26 | 189/27 | 189/27 | 190/26 | 190/27 | 195/21 | 195/21 | 195/21 | 195/22 |
|        | 194/30 | 194/30 | 194/30 | 194/30 | 195/30 | 195/30 | 195/30 | 195/30 |
| Date (mm/yyyy) | 08/1984 | 07/2014 | 08/2015 | *08/2015 | 06/1984 | 07/2013 | 08/2013 | 07/2013 | 08/2013 | 08/2015 | 08/2015 | 07/2015 | 08/2015 | 08/2015 |

Table S2: Landsat imagery used for urban development analysis. TM = Landsat TM imagery, OLI = Landsat OLI imagery. * Both images for 196/26 from August 2015 are used.