

## Supplementary Materials

### **Appendix S1:** Tidy-ups for the revised extent of freshwater wetlands.

- Delineation differences greater than 10 ha were visually checked to see if they had minor junctions with area of agreement. If so, they were assigned to a detection difference.
- Overlaps of the revised extent of freshwater wetlands with LCDB5 saline wetlands were eliminated.
- Overlaps of the revised extent of freshwater wetlands with LCDB5 landcover inconsistent with wetland (e.g. built-up area, transport infrastructure, lakes) were eliminated.
- Overlaps of the revised extent of freshwater wetlands with lost wetlands in LCDB5 were eliminated.
- Slivers less than 1 ha were removed.
- Polygons greater than 1 ha intersecting with eliminated polygons were visually checked and manually edited where necessary.