

## Supplementary materials of

*“Quantifying Water Consumption through the Satellite Estimation of Land Use/Land Cover and*

*Groundwater Storage Changes in a Hyper-Arid Region of Egypt”*

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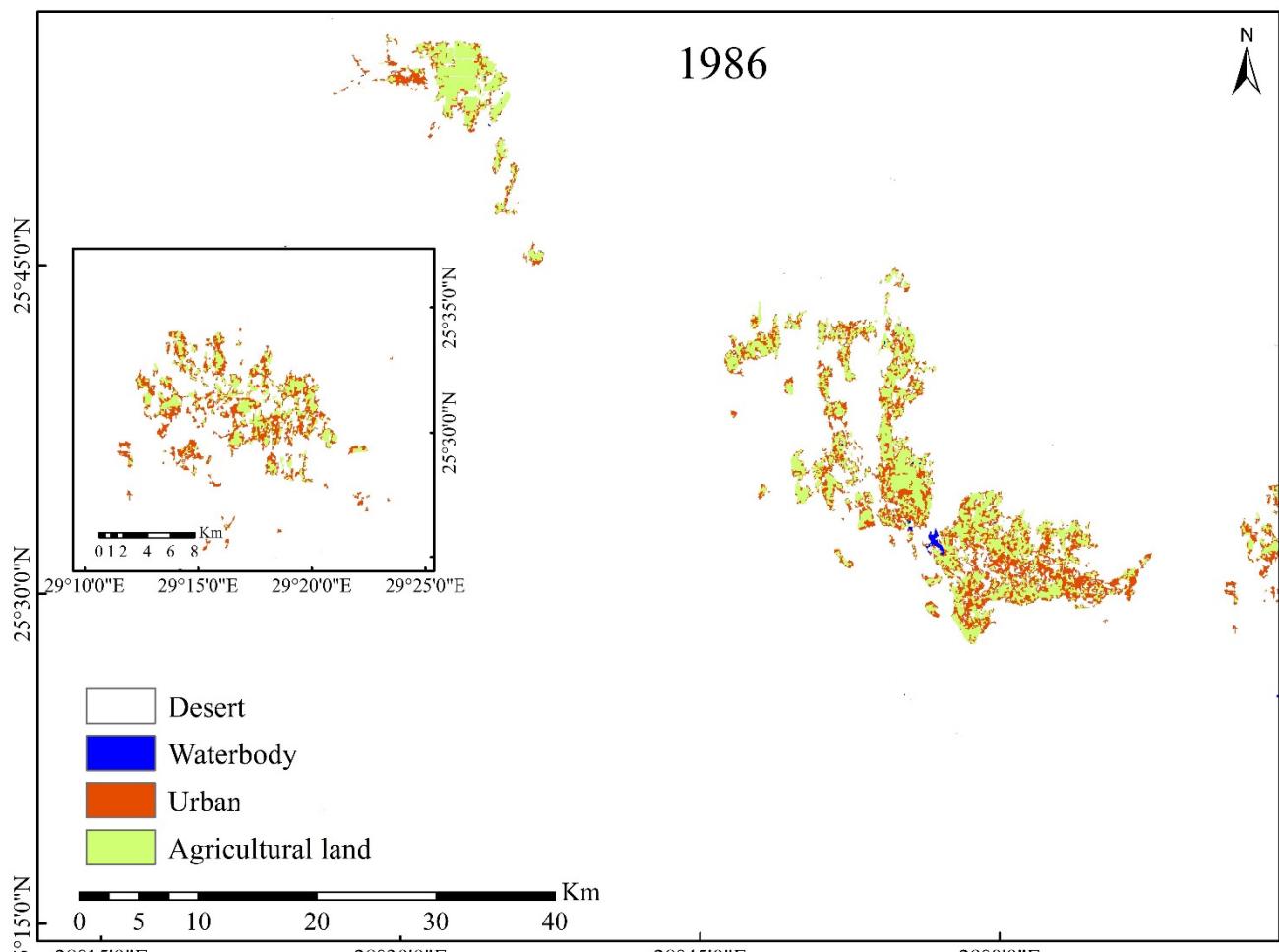
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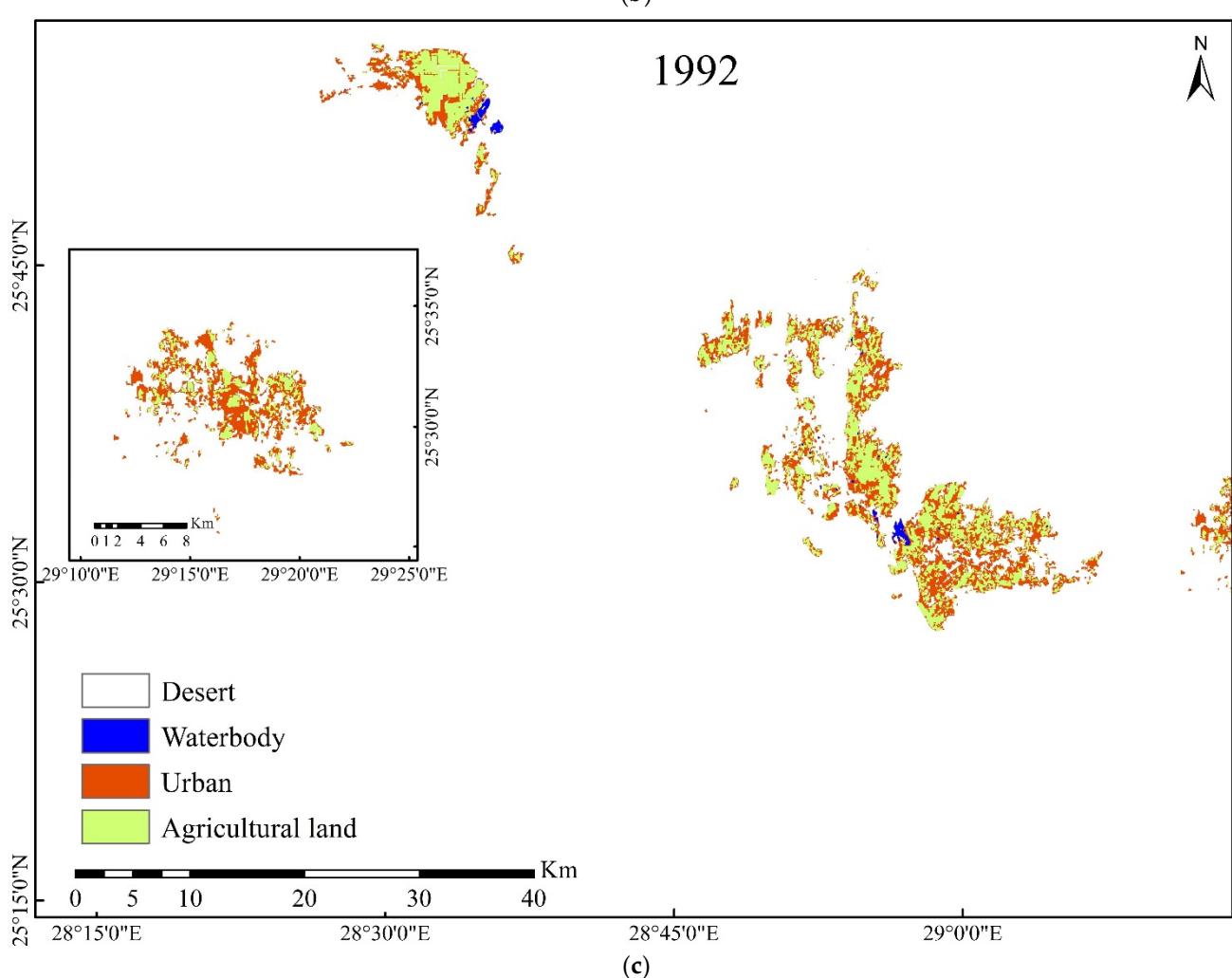
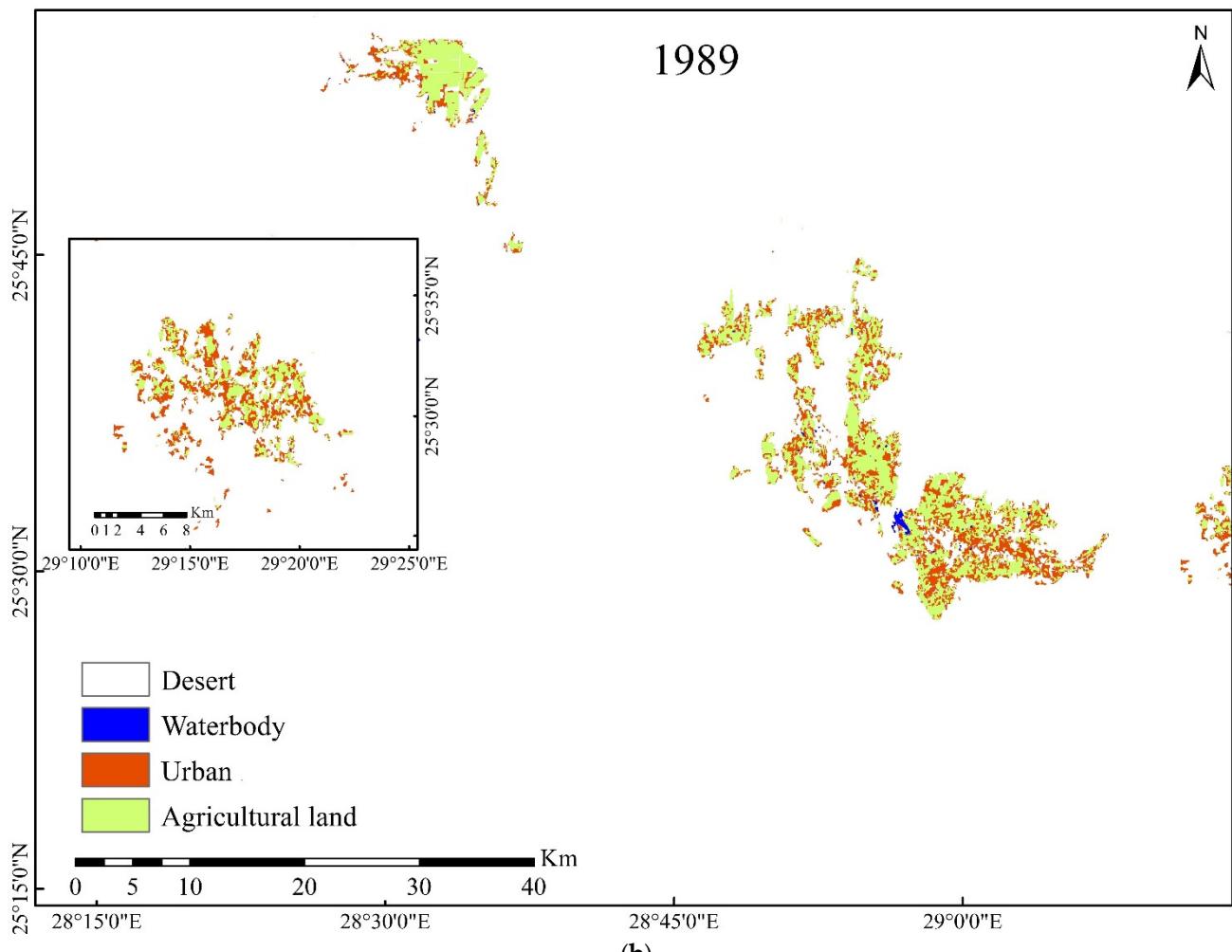
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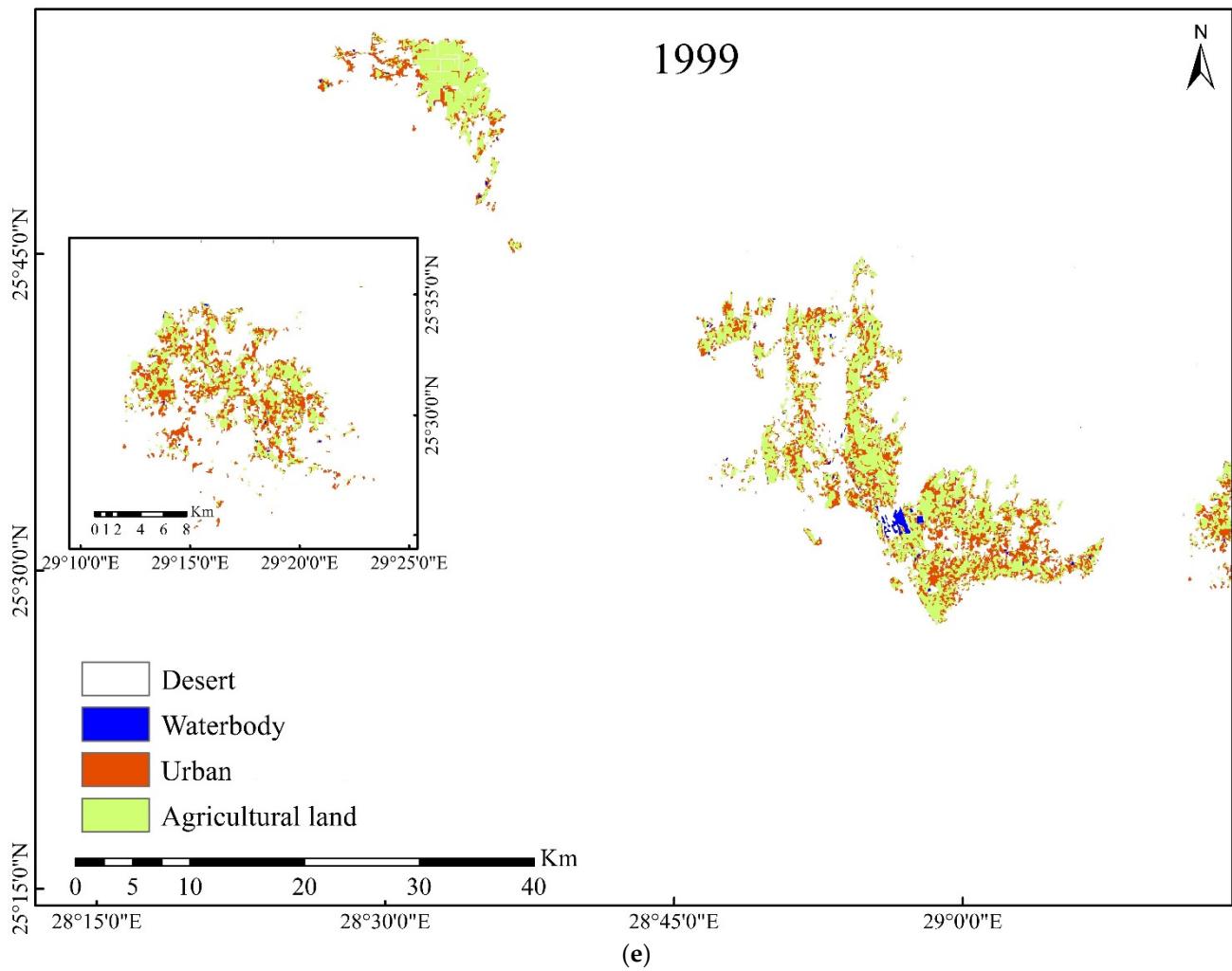
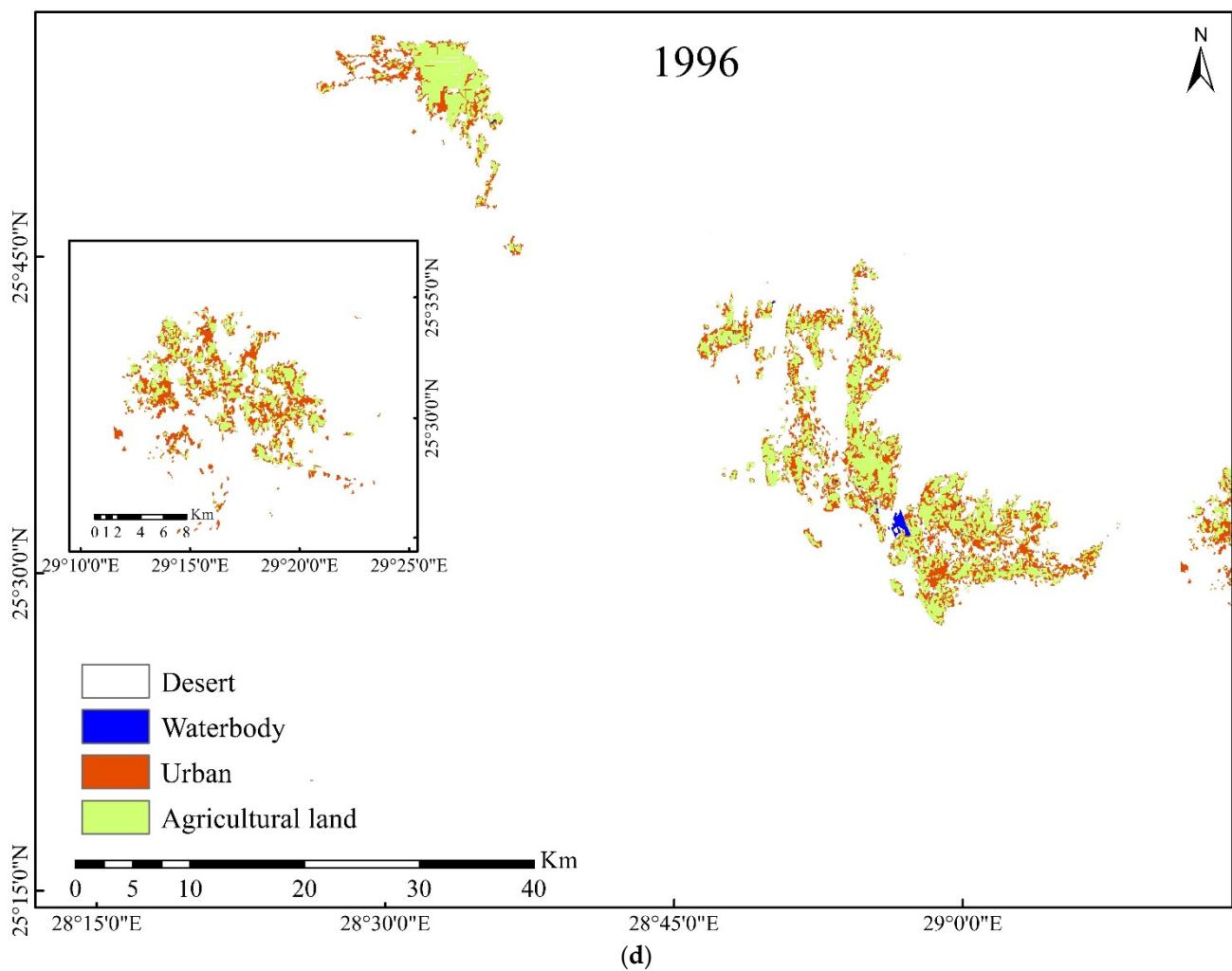
In the supplementary materials, we revealed all of the LULC maps constructed using OBIA methods in three oases of New Valley, Egypt.

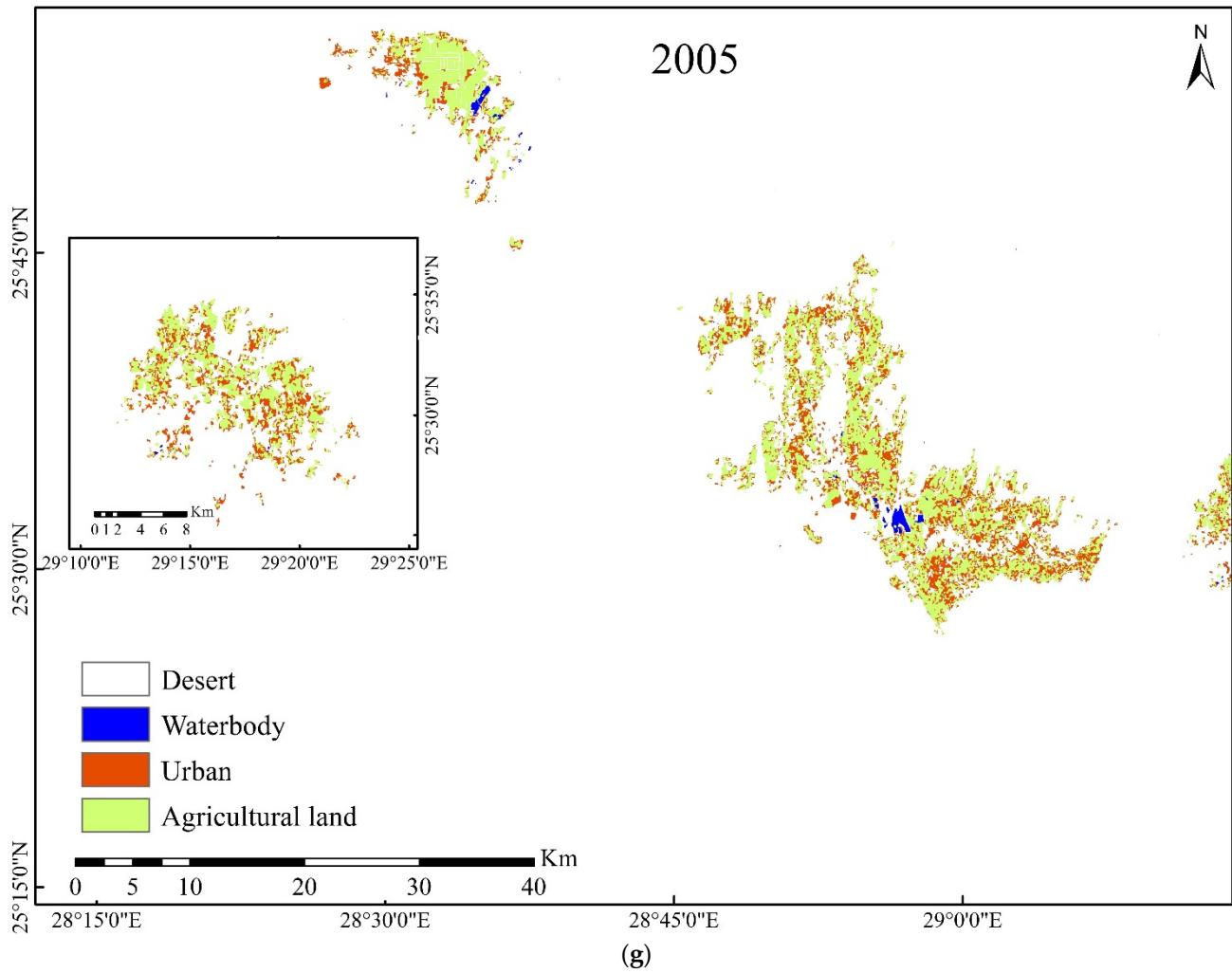
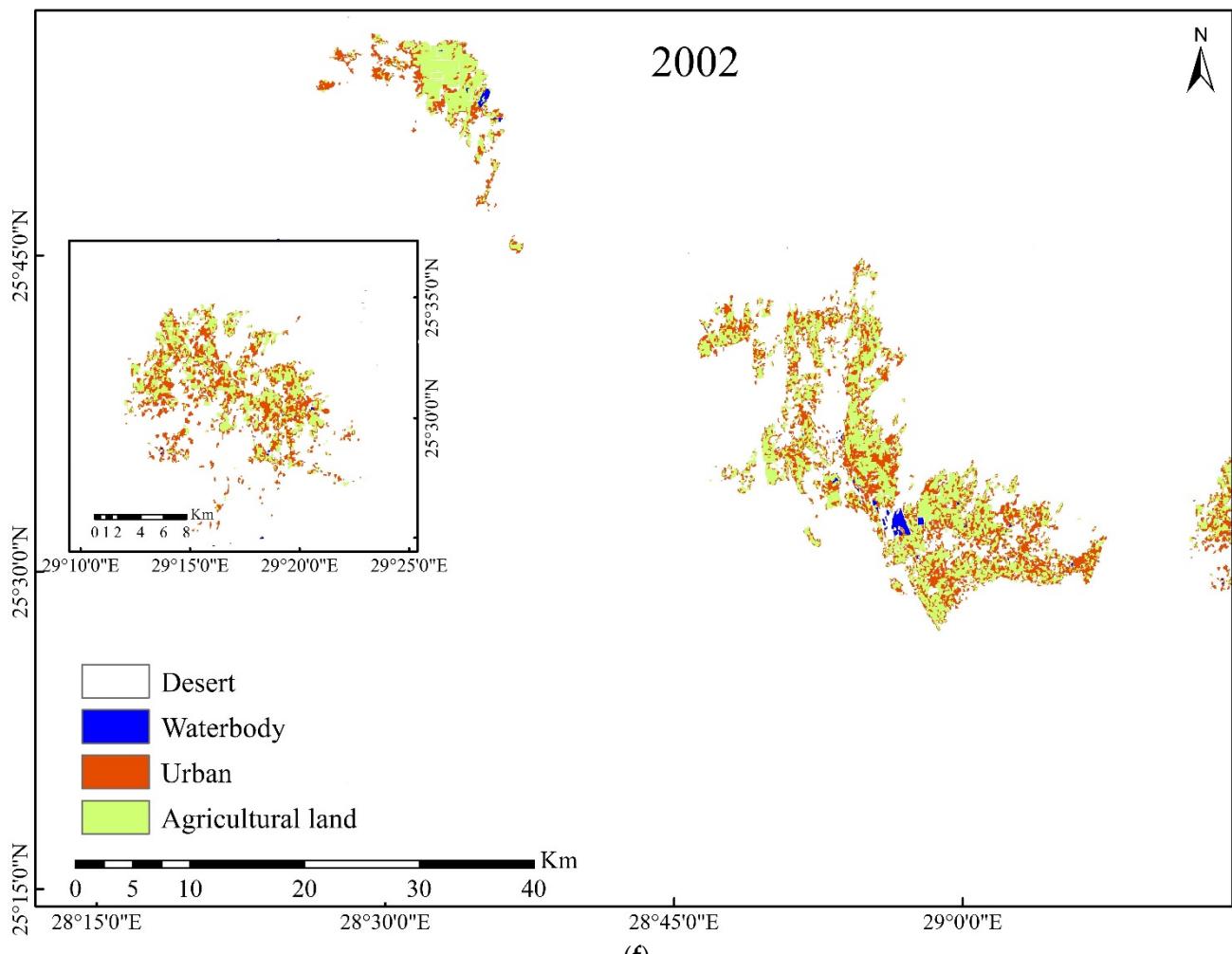
### 1 Dakhla Oasis

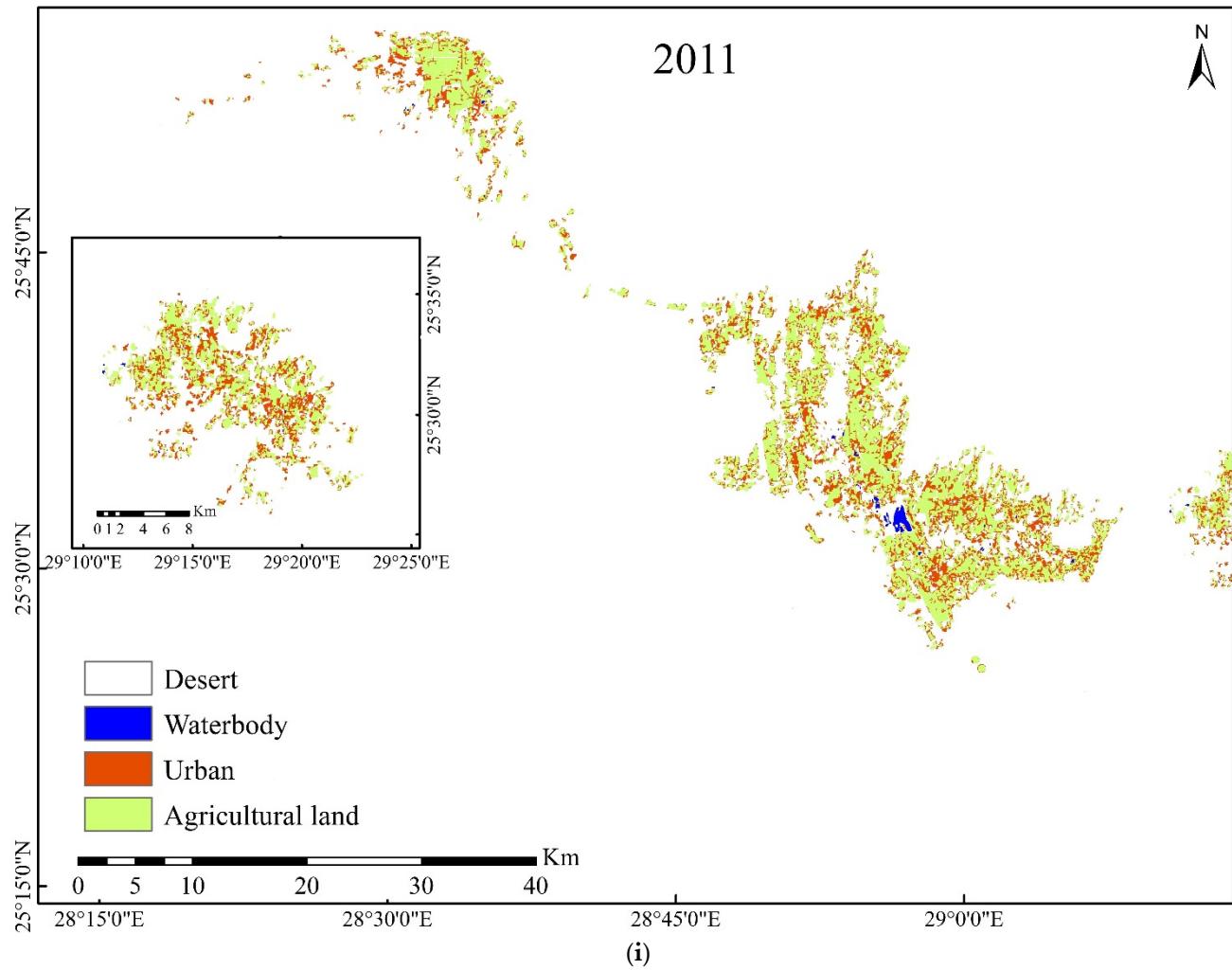
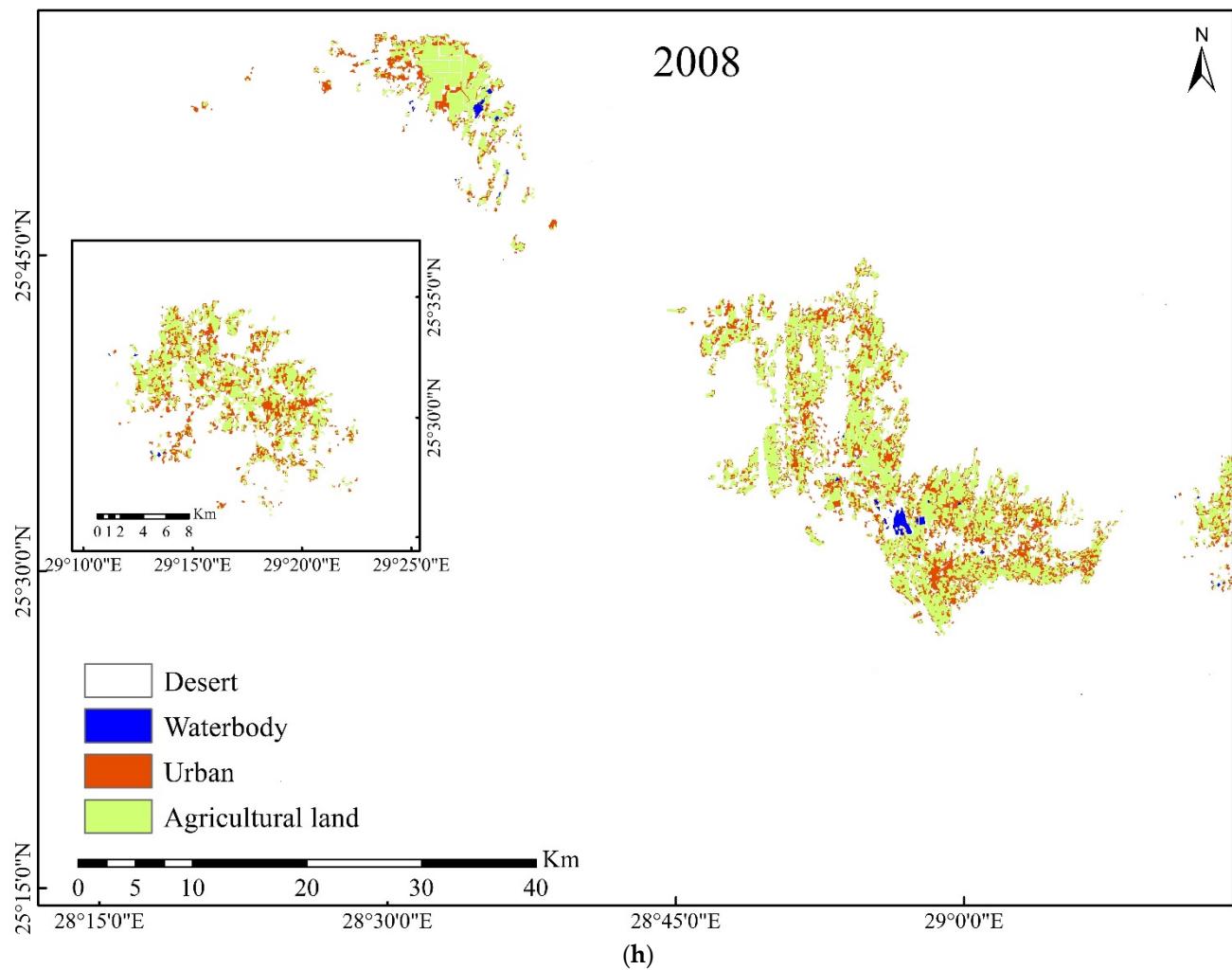


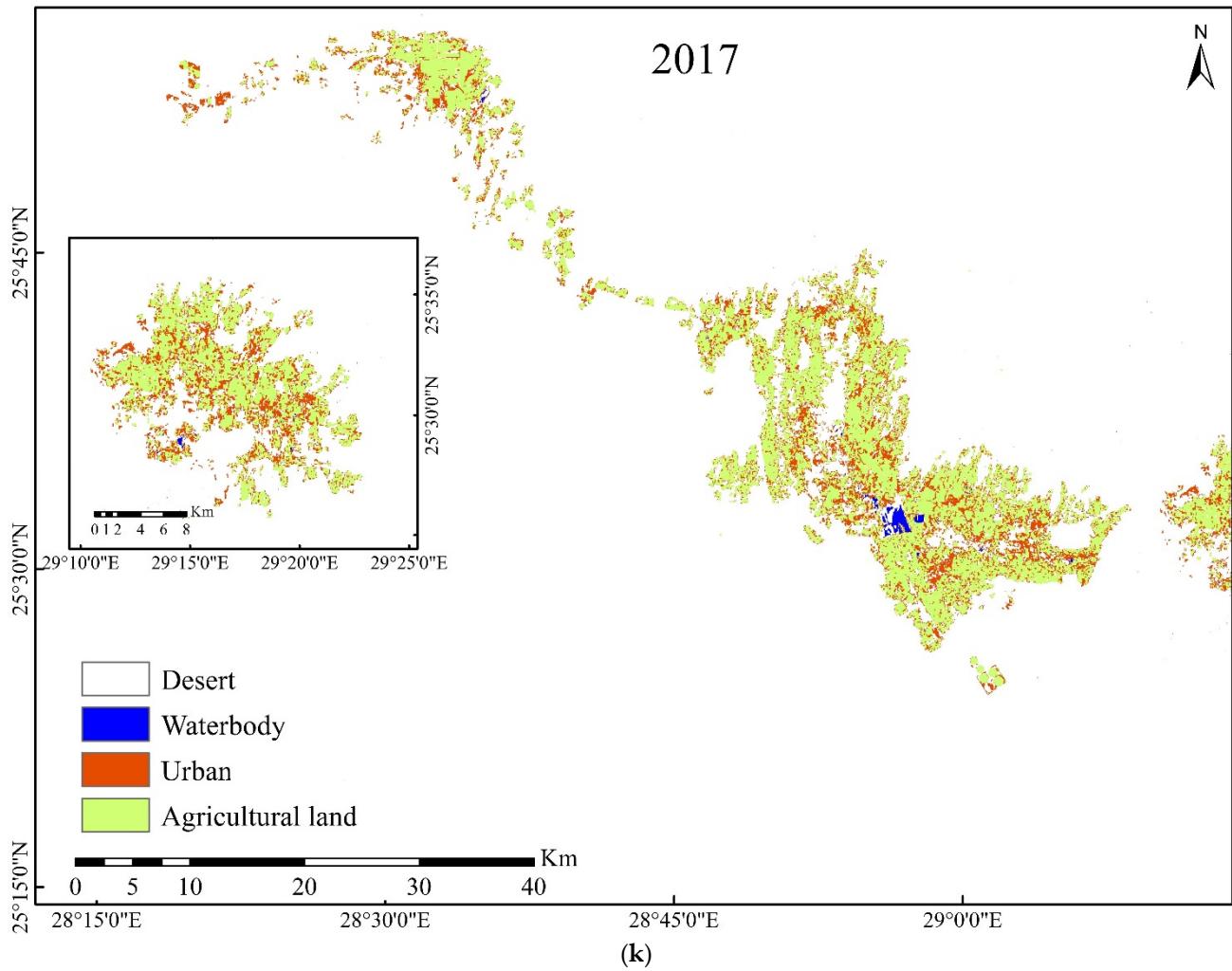
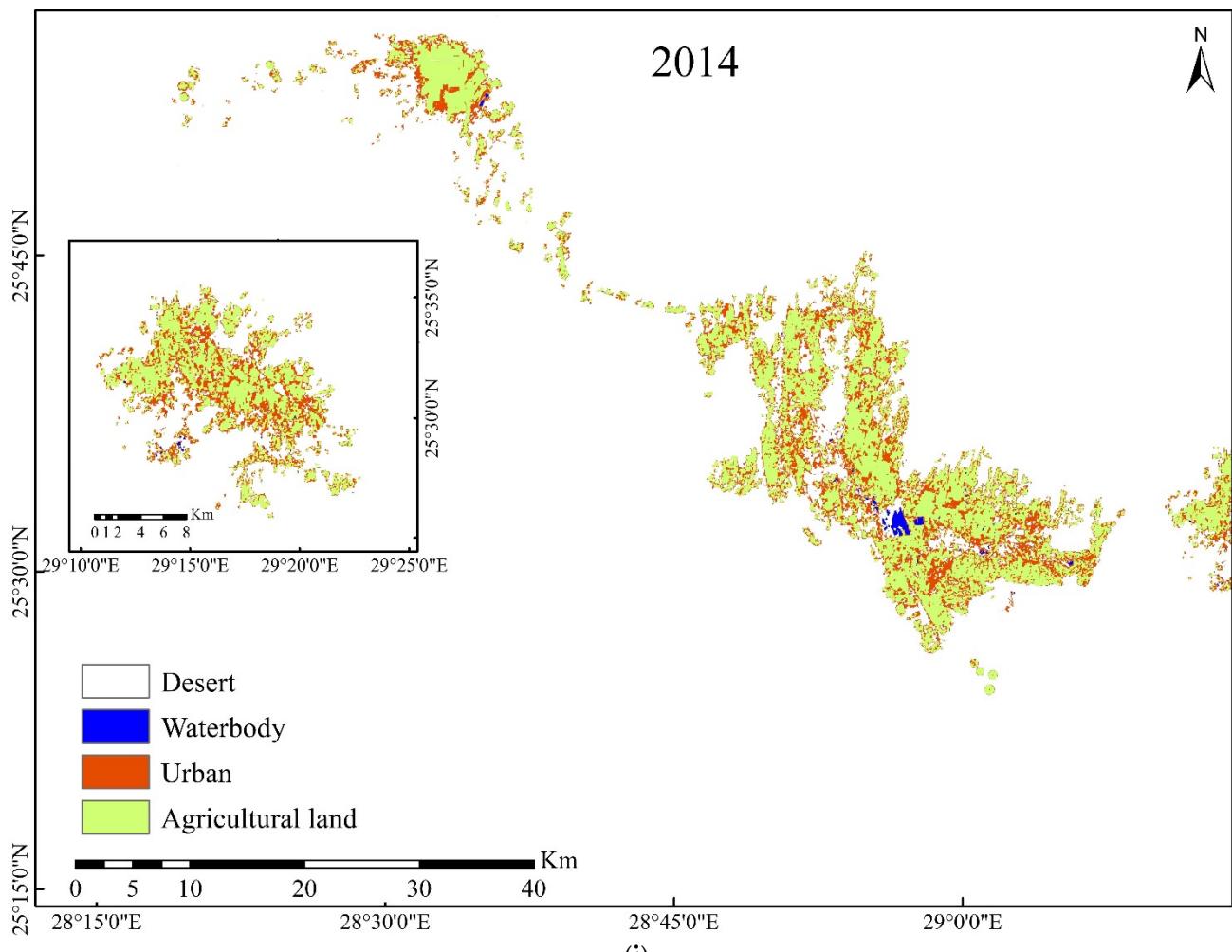
(a)

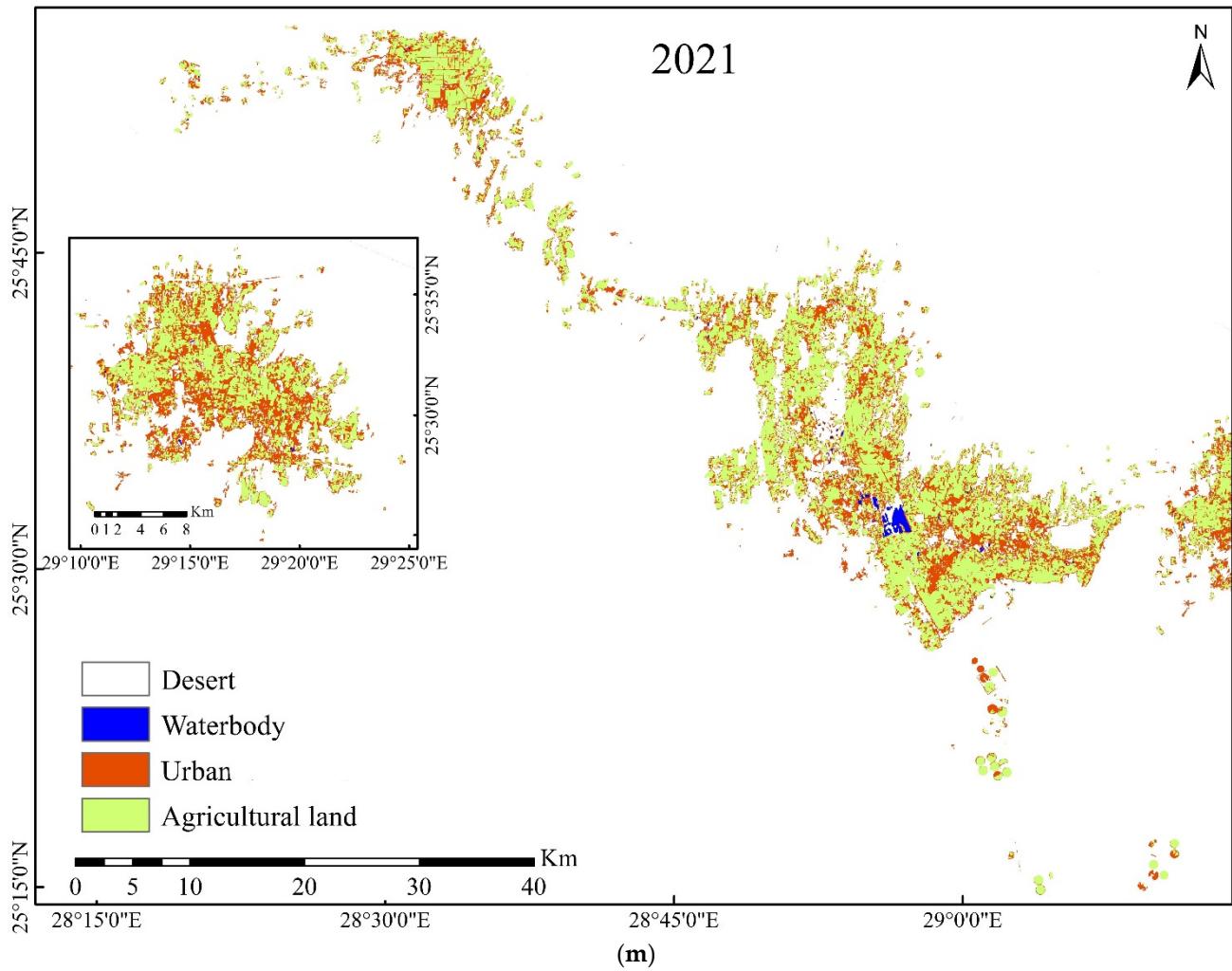
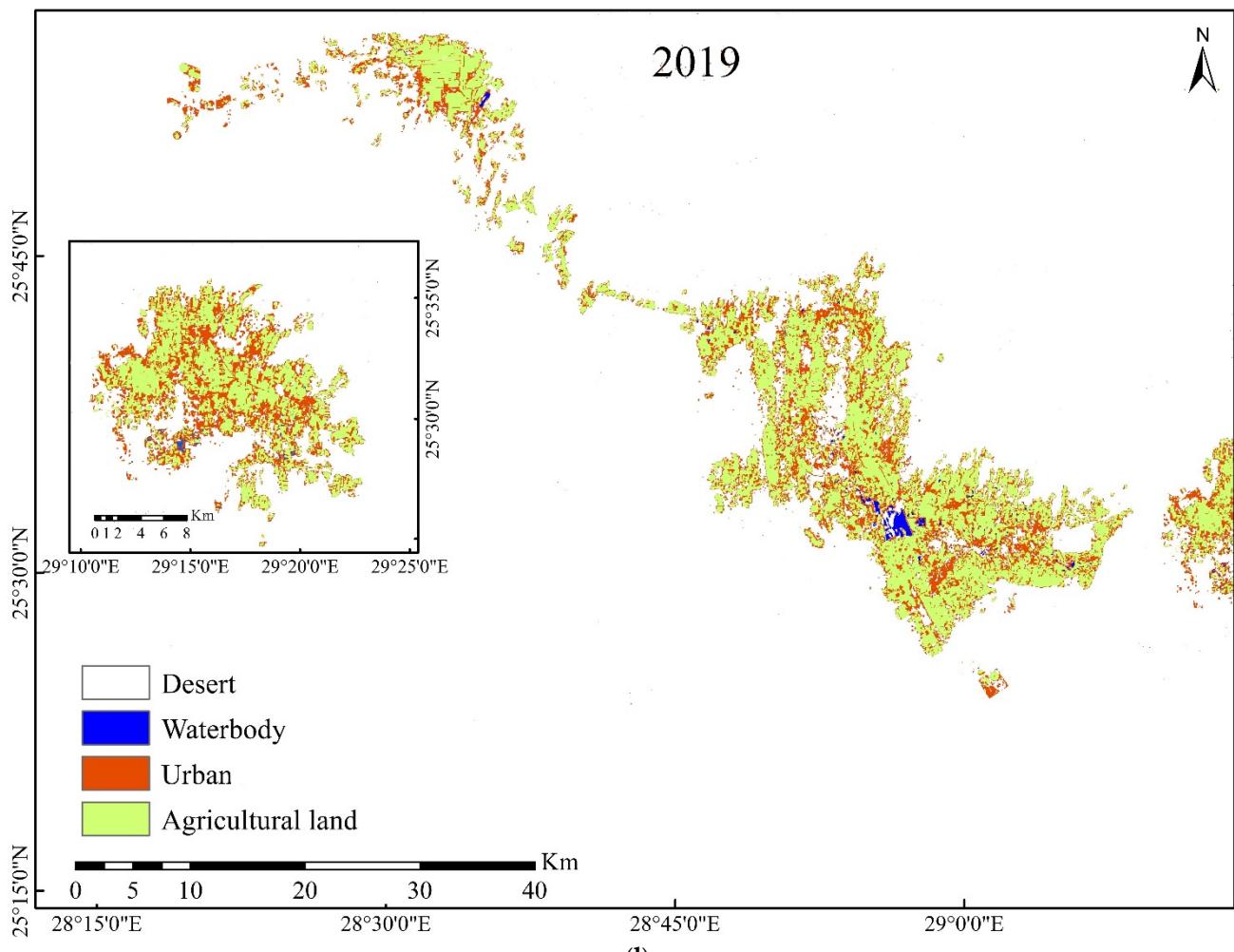












**Figure S1.** Land use and land cover classification maps of Dakhla Oasis from (a) 1986 to (m) 2021.