

## due to built-up and aquaculture

regions. **4** Conclusions

Biocapacity changes are not only related to mangrove area changes but also the change types. The uncertainties: Training samples (1985, 1996); Indices selected for classification; Tidal inundation; Different mangrove species and ages.

Mangroves area decreased from 1985 to 1996, while kept increasing after 1996 mainly due to the national conservation actions since 1990s Most mangrove gains came from aquaculture and mudflat, while losses were

Fig. 6 Mangrove gain and loss in terms of different land cover. For references and details, contact: Zheng Yuhan, Bw-601, 6-1, Komaba 4-chome, Meguro, Tokyo 153-8505 JAPAN (URL:http://wtlab.iis.u-tokyo.ac.jp/E-mail: yuhan@g.ecc.u-tokyo.ac.jp)