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Hariyadi S., Muflih A., Mashar A., Widigdo B., Wardiatno Y., 2017 Spatial distribution of some heavy metals in the sediments of Tangerang coastal waters, Banten Province, Indonesia. *AES Bioflux* 9(2):120-134.

Gonzales B. J., Sariego R. S., Montano B. S., 2017 Social benefits and impacts of mangrove resource utilization in Rio Tuba, Bataraza, Palawan, Philippines. *AES Bioflux* 9(2):135-147.

Chandra H., Simbolon D., Wiryawan B., Iskandar B. H., Taurusman A. A., 2017 Development of coastal water monitoring technology in Wakatobi regency, Indonesia. *AES Bioflux* 9(2):148-157.

Moldoveanu M., Sarbu D., Galie A. C., Bojan V., Mezdriou I., 2017 Assessment of river water quality using an integrated hydro-morphological, physico-chemical and biological approach. *AES Bioflux* 9(2):158-172.