

Interactive comment on “Influence of Hydrometeorological Hazards and Sea Coast Morphodynamics onto Unique Coastal Vegetation Sites Development – *Cephalanthero rubrae* – Fagetum on Wolin Island (the Southern Baltic Sea)” by Jacek Tylkowski et al.

Jacek Tylkowski et al.

jatyl@amu.edu.pl

Received and published: 15 October 2020

All comments of the reviewer will be included in the article, e.g. : - title change: Influence of Hydrometeorological Hazards and Sea Coast Morphodynamics onto Development of the *Cephalanthero rubrae*-Fagetum (Wolin Island, the Southern Baltic Sea) - improving language terminology, e.g: stenothermal coastal - coastal thermophilous, phytocoenosis - plant community, site formation – habitat formation - comment line

C1

41 - It will be added that *Cephalanthera rubra* and *Epipactis atrorubens* are indicator species for *Cephalanthero rubrae*-Fagetum. Both species found in the 6 studied habitats - *Cephalanthera rubra* was the dominant one. Non-indicator species, e.g. *Cephalanthera damasonium* and *Epipactis helleborine*, have been found in habitats - in the method section, the source of the Latin names of plant species and phytosociological units (Jackowiak et al. 2007, Matuszkiewicz 2020). Jackowiak, J., Celka, Z., Chmiel, J., Latowski, K., Ązukowski, W.: Red list of vascular flora of Wielkopolska (Poland). Biodiversity Research and Conservation 5-8, 95-127, 2007. Matuszkiewicz, W.: Przewodnik do oznaczania zbiorowisk leśnych Polski [Guide to the determination of forest communities in Poland], PWN, Warszawa, 540, 2020) - habitat development (line 46-56) will only consider the formation of the present-day *Cephalanthero rubrae*-Fagetum habitat from the 18th century. The earlier context will not be described, as the former *Cephalanthero rubrae*-Fagetum habitats do not exist, they have been eroded - plant species in habitats will be listed alphabetically - line 77-80 will be transferred to line 35-39, with a detailed description of the naspa by Prusinkiewicz 1971 - replacing the uniform word to homogeneous word (line 88) - reordering in chapter 3 Results: 3.1. Hydrometeorological Conditions and Hazards. 3.2 Cliff Coast Morphodynamics Hazard 3.3 Reach and Floristic Composition of Cr-F - description of habitats: adding quantitative indicators (*Cephalanthera rubra* individuals recorded should be reported, population density indicator of *Cephalanthera rubra*, the number of species of vascular plants and orchids), writing the boundaries of habitat range (coordinates of the eastern and western boundaries of the habitat and its geometric center), a quantitative description of erosion rate in the last 35 years - linguistic inaccuracies will be corrected, e.g. the word movement in line 229 will be removed, - conclusions chapter: the term defragmented was used incorrectly instead of different places (line 272). Lines 275-282 quantitative changes of orchid species in the studied zone, reference to Piotrowska (1994). The sentence from line 278-279 (“Also, it has. . .”) will be deleted - it has no substantive significance. The sentence from lines 279-282 (“It past. . .”) has been moved to the discussion section. All terminological, linguistic and interpretation comments will be

C2

included in the final version of the article in accordance with the reviewer's comments.

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2020-160>, 2020.