

Interactive comment on “Data for wetlandscapes and their changes around the world” by Navid Ghajarnia et al.

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Suggestions by Anonymous Referee #2: I recommend the Authors to add to the manuscript the table with basic information of wetlandscapes showed in Figure 1. Uniform black dots used for showing the presented individual objects on the map suggest that these objects are of similar size. However, based on the data presented in “Survey summary doc A_General site information” show that presented wetlandscapes are in differ total area and percentage of wetlands. This information added in table into manuscript could provide this basic information for readers. In my opinion, key information is also altitude (mean in case of small objects and mean, maximum and minimum in case of large ones) and salinity. Moreover, small technical correction in “Survey summary doc A_General site information – site info” are recommended: unify of font

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and some detail information, eg. in some cases there is information “326102 number of people for watershed”, however in the others “940 hab. (2002)”, “Total population of 2.9 million people implies an average population density of _ 78 people per km²”. It would be better to unify the way of presentation the population data, lakes data etc.

Response: Thanks for your feedback and suggestions. Based on your suggestion, we have now added Table 1 in section 3.1 of the revised manuscript. This table presents some selected fields of the “summary table sheet” in the “Survey summary doc A”, including site names, country, classification (wetlandscape or individual wetlands), climate zone, wetland type, and area of wetlands relative to total wetlandscape (catchment) area. The total wetlandscape (catchment) area is not added in Table 1 as this information is embedded as a graph in Figure 2. Specific salinity levels are not included either, as such data have not been provided for the different sites, and the focus of the current version of the Wetlandscape Change Information Database (WetCID) is on land use and hydroclimatic changes, rather than on water quality. However, the wetland type for each site, which is given in Table 1, clarifies if there are mainly freshwater, brackish water, or saline water wetlands at each site. Various water quality data are definitely interesting to consider and include in further developments of the database. Moreover, altitude is also useful information to add in future developed versions of WetCID database, even though it has not been collected and prepared at this stage. The fonts, size and general format cells of Survey summary doc A are revised based on your recommendations (see the attached file). Different information items regarding latitude, longitude, climate zones, temperature, evapotranspiration, runoff, precipitation, groundwater table, and population, are also harmonized as much as possible. However, please note that, although we have defined a general structure for different existing fields in the survey forms (to harmonize reported data), we tend to keep additional information provided by each site’s researchers, as this provides valuable local insights. Therefore, this may cause some minor inconsistencies in level of available data among different sites. The added Table 1 and its associated explanation in the revised manuscript are as follows: In the beginning of section 3.1,

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between lines 188-191: “Table 1 summarizes some general geographical, climate, and wetland type information provided by GWEN researchers in the survey information forms. Each site represents either an individual wetland or a wetlandscape (e.g., a catchment) including multiple wetlands. The country, main climate zone and wetland area relative to total wetlandscape (catchment) area are also given for each site in Table 1.”

Please also note the supplement to this comment:

<https://www.earth-syst-sci-data-discuss.net/essd-2019-207/essd-2019-207-AC2-supplement.zip>

Interactive comment on Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2019-207>, 2019.

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1 **Table 1.** General geographic, climate, and wetland type information for the 27 investigated wetlandscapes in WetCID. The data and information are based on
2 survey responses by researchers with active research (on various topics) at each wetlandscape site.

Site No.	Site name	Country	Classification	Climate zone	Wetland type	Area of wetlands relative to total catchment/wetlandscape area (%)
1	Tavvavouma	Sweden	Wetlandscape	Subarctic	Peat plateau/thermokarst lake complex	2.8
2	Forsmark	Sweden	Wetlandscape	Humid continental (cold summer)	Bogs, fens, marshes, (shallow lakes)	0.01
3	Vattholma	Sweden	Wetlandscape	Humid continental (cold summer)	Bog, Fen, Riparian	-
4	North Baltic WMD	Sweden	Wetlandscape	Humid continental (cold summer)	Multiple	100
5	Simpevarp	Sweden	Wetlandscape	Humid continental (cold summer)	Bogs, fens	0.01
6	South Baltic WMD	Sweden	Wetlandscape	Humid continental (cold summer)	Multiple	100
7	Upper Lough Erne	Ireland	Individual wetland	Cold (dry winter, cold summer)	Flood plain/shallow lakes	22
8	Selenga	Russia	Wetlandscape	Cold (dry winter, cold summer)	Marshes (Riverine, Palustrine)	0.13
9	Volga	Russia	Wetlandscape	Cold (dry winter, cold summer)	Marshes (Riverine, Palustrine)	1.0
10	Le Sueur	USA	Wetlandscape	Temperate	isolated, fluvial/riparian, lakes/ponds, marshes, forest/shrubs, constructed	100
11	Sacca Di Goro	Italy	Individual wetland	Cold-summer Mediterranean	Shallow saltwater coastal lagoon	4.2
12	Lake Urmia	Iran	Individual wetland	Continental	Lake	8.8
13	Anzali Mordab	Iran	Individual wetland	Caspian or Hyrcanian climate	Inland and Marine/Coastal wetland	4.0
14	Gialova Lagoon	Greece	Individual wetland	Hot-summer Mediterranean	Coastal wetland	13
15	Lower Mississippi River Delta Plain	USA	Wetlandscape	Humid Subtropical	Riverine, Marine, Estuarine, Lacustrine	3.5
16	Shadegan	Iran	Individual wetland	Warm desert	Palustrine, Estuarine, Marin	31
17	Zone Humide de Souss	Morocco	Individual wetland	Mediterranean semi-arid	marine and coastal	0.01
18	Geographically isolated wetlands	USA	Wetlandscape	Humid subtropical	Freshwater marshes and swamps	100
19	Everglades	USA	Individual wetland	Tropical to Subtropical	Freshwater wetland, coastal wetland	32
20	CGSM	Colombia	Individual wetland	Tropical	Estuarine	-
21	Mekong Delta	Vietnam	Wetlandscape	Tropical Monsoon	Marine	5.0
22	Panama Canal	Panama	Wetlandscape	Tropical/Central America	River Chagres, Lake	100
23	León-Atrato	Colombia	Wetlandscape	Tropical rainforest	Marshes and Swamps	17
24	Lagunas Plaza and Grande	Colombia	Wetlandscape	Extremely cold and very dry	Glacial Lake	4.4
25	Figuene, Cucumbá y Palacio	Colombia	Individual wetland	Cold and very dry	Natural shallow lake	1.7
26	Paramo Sumapaz	Colombia	Wetlandscape	Tropical	High altitude wetland	46
27	Pantanal	Brazil	Wetlandscape	Tropical savanna with dry-winter	Periodically inundated savanna	27

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Fig. 1. Table 1. General geographic, climate, and wetland type information for the 27 investigated wetlandscapes in WetCID