Information Sheet on Ramsar Wetlands

Categories approved by Recommendation 4.7 of the Conference of the Contracting Parties.

NOTE: It is important that you read the accompanying Explanatory Note and Guidelines document before completing this form.

1. Date this sheet was completed/updated: For office use only.
   11.11.98

2. Country: Italy

3. Name of wetland:
   Campotto and Bassarone Valley

4. Geographical coordinates:
   44° 35’ North; 11° 50’ East

5. Altitude: average 5 m a.s.l. (max. 15/min. 4)

6. Area: (in hectares) 1,363 ha

7. Overview: (general summary, in two or three sentences, of the wetland’s principal characteristics)
   Residual freshwater marsh of the Padana lowlands plain, with embankments built around the perimeter in order to serve as flood overflow area in the drainage system of the Bolognese lowlands and the river Reno. The valley is subdivided into two sections: Campotto and Bassarone. There are several expanses of Nymphaea alba, Phragmites australis and Typha latifolia. In the southern part there is a stretch of woodland dominated by Populus alba, Salix alba, Ulmus minor, Quercus robur and Alnus glutinosa.
   The southern part of the valley borders on the “Valle Santa” Ramsar wetland with which it forms a single environmental and management unit.

8. Wetland Type: (please circle the applicable codes for wetland types as listed in Annex I of the Explanatory Note and Guidelines document)
   marine-coastal: A - B - C - D - E - F - G - H - I - J - K
   inland: L - M - N - O - P - Q - R - Sp - Ss - Tp
   Ts - U - Va - Vt - W - Xf - Xp - Y - Zg - Zk
   man-made: 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9

   Please now rank these wetland types by listing them from the most to the least dominant:
   Tp, 6, Xp, Ts, 9, M

9. Ramsar Criteria: (please circle the applicable criteria; see point 12, next page.)
   1a - lb - lc - 1d / 2a - 2b - 2c - 2d / 3a - 3b - 3c / 4a - 4b
Please specify the most significant criterion applicable to the site:

10. Map of site included? Please tick yes or no  X

(Please refer to the Explanatory Note and Guidelines document for information regarding desirable map traits)

11. Name and address of the compiler of this form:
Massimiliano Costa – Regional Park of the Po Delta.
Giuliana Venturi – Emilia-Romagna Region.

Please provide additional information on each of the following categories by attaching extra pages (please limit extra pages to no more than 10):

12. Justification of the criteria selected under point 9, on previous page. (Please refer to Annex II in the Explanatory Note and Guidelines document)
Campotto and Bassarone Valley (together with the adjoining Ramsar area “Valle Santa”) form the largest regional expanse of fresh water valleys and the Traversante woods are a rare example of meso-hydric woodland for the Padana valley. The wetland represents an important secondary catchment area for the Reno river, which forms the northern border of the area, to which it is connected from a hydrological and ecological point of view. The wetland, which represents an important reservoir of biodiversity for the entire Reno basin, is host to a large number of rare fauna and flora species, with representative populations at a national level and single-location species at regional level which find suitable environments for nesting, feeding and resting during migration. There are more than 20,000 aquatic birds regularly present and in particular important populations of Podicipedidae, Phalacrocoracidae, Ciconiiformes, Anatidae, Sternomidae. There are four endemic species of fish in the marshes and the surrounding water courses.

13. General location: (include the nearest large town and its administrative region)
Campotto Valley is situated on the boundary of three provincial administrations (Bologna, Ferrara, Ravenna). It is approximately 45 km from Bologna, 40 km from Ravenna, 30 km from Ferrara (capital of the Province) and 3 km from Argenta (main Municipality and nearest town).

14. Physical features: (e.g. geology, geomorphology; origins - natural or artificial; hydrology; soil type; water quality; water depth; water permanence; fluctuation in water level; tidal variations; catchment area; downstream area; climate)
The area is a naturally occurring freshwater wetland which has been reshaped and surrounded by embankments in order to serve as a flood overflow area. The area is at the confluence of the Idice torrent with the Reno river and the territory has been strongly influenced by the land reclamation activities carried out during the first decades of the century. The waters flow into the valley, especially during flood periods, from the man-made channels on the left of the Idice torrent which gather the overflow waters from the Bolognese lowlands, to be then discharged into the Reno river when its levels have returned to normal. The soil is calcareous-clayey alluvium. Most of the marsh is permanently flooded with variations in water level during the year mainly due to the need to increase the level during the more rainy periods.

15. Hydrological values: (groundwater recharge, flood control, sediment trapping, shoreline stabilisation etc.)
The basin is mainly an overflow catchment area to protect the territory from flooding.
16. Ecological features: (main habitats and vegetation types)

*Nymphaea alba* dominates the marsh with *Nuphar luteum* and *Nymphoides peltata*, surrounded by beds of *Phragmites australis* and *Typha latifolia*. In the free waters there are vast beds of submerged hydrophytes (*Ceratophyllum demersum, Ranunculus trichophyllus*). The Traversante Copse (southern zone) is dominated by *Populus alba, Salix alba, Ulmus minor, Quercus robur* and, *Alnus glutinosa*, with a bushy undergrowth or with beds of *Carex elata*.

17. Noteworthy flora: (indicating, e.g., which species/communities are unique, rare, endangered or biogeographically important, etc.)

The following species threatened at a national level are present in the wetland (“Libro Rosso della Flora d’Italia”): *Hippuris vulgaris, Hottonia palustris, Leucojum aestivum, Oenanthe aquatica, Sagittaria sagittifolia, Salvinia natans, Senecio paludosus, Thelypteris palustris*. The following species, protected in the Emilia-Romagna region, are also present: *Leucojum aestivum, Nymphaea alba, Orchidaceae*.

18. Noteworthy fauna: (indicating, e.g., which species are unique, rare, endangered, abundant or biogeographically important; include count data, etc.)

Birds listed in Attachment 1 of the European Union Directive 79/409: the most important nesting colony in Italy of *Phalacrocorax carbo* ssp. *sinensis* (250 pairs), in addition to a heron breeding site with *Ardea ralloides* (20-70 pairs), *Nycticorax nycticorax* (10-240 pairs), *Egretta garzetta* (30-60 pairs), *Ardea purpurea* (70 pairs). Nesting of *Botaurus stellaris* (1-2 pairs), *Ixobrychus minutus, Aythya nyroca* (1-2 pairs), *Circus aeruginosus* (1-2 pairs), *Porzana parva, Porzana parzana, Chlidonias hybrida* (5-200 pairs). It is an important nesting site for *Podiceps auritus* (main Italian nucleus), for the migration of the Acrocefalini and autumnal roosting of *Hirundo rustica*, with more than 20,000 specimens. Summer habitat of the *Pandion haliaetus*.

Important populations of species contained in Attachments II and IV of the EU Dir.92/43: *Emys orbicularis, Chondrostoma genei* (endemic), *Barbus plebejus* (endemic), *Lycaena dispar, Zerynthia polyxena, Osmoderma eremita, Cerambix cerdo*. Presence of other endemic species of fish: *Rutilus erythrophthalmus, Padagobius martensii* and species of fish of economic importance: *Esox lucius*, which has entirely disappeared from several hydrographic catchment areas and is an indicator of good ecological conditions; *Tinca tinca*, a species in decline in Emilia-Romagna.

19. Social and cultural values: (e.g. fisheries production, forestry, religious importance, archaeological site etc.)

The area serves as an important water resource and enables regulation of the waters, which is essential for safeguarding the territory and defending it from floods. The type of management carried out has enhanced the characteristics of the area which are of great importance for nature conservation.

The location is well-known nationally for its important environmental and cultural links with the history of reclamation of the Padana plain. Scientific-cultural events are promoted by the Centre for historical-nature documentation which has its offices in the Argenta Valleys Museum (national and international congresses, educational and teaching activities, series of publications “Quaderni di Campotto”). Scientific research is also carried out by a centre for bird-ringing and the study of birds of national importance.

20. Land tenure/ownership of: (a) site (b) surrounding area
The owner of the area is the Rena Land Reclamation Consortium (Consorzio della Bonifica Renana), with offices at Via S. Stefano 56, Bologna, who is directly responsible for water and environmental management.

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<th>21. Current land use: (a) site (b) surroundings/catchment</th>
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<td>a) flood overflow basin, nature conservation and observation, nature tourism</td>
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<td>b) “Valle Santa” Ramsar wetland; agriculture</td>
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<th>22. Factors (past, present or potential) adversely affecting the site's ecological character, including changes in land use and development projects: (a) at the site (b) around the site</th>
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<td>The waters coming from the intensely cultivated surrounding plains cause water pollution from pesticides and herbicides and increase in nutrients, with a subsequent eutrophication of the waters and “ageing” of the marsh beds. A Life-Nature project has recently been concluded which studied the problem of efficiency-loss of some water regulation structures, which had caused a decrease in the water circulation within the Valley and reduced the possibility of carrying out timely operations to create small water level variations of the overflow basin. These maintenance operations are extremely important for avoiding damage to habitats, nesting activities and for the survival of various species of fauna and flora, above all during extreme weather conditions (heavy rainfall or long dry periods). A particularly adverse impact has been caused by the considerable spread of introduced animal species: Myocastor coypus (damage to vegetation communities and disturbance to some nesting species), Pseudorasbora parva (competition with small autochthonous and also endemic Ciprinidi), Silurus glanis (direct predator of small-medium autoctonous and endemic Ciprinidi, with changing of natural fish cenosis), Procambarus clarkii.</td>
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<th>23. Conservation measures taken: (national category and legal status of protected areas - including any boundary changes which have been made; management practices; whether an officially approved management plan exists and whether it has been implemented)</th>
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<td>Ramsar wetland, established with Ministerial Decree dated 21.10.1978, published in the Gazzetta Ufficiale (official state journal) No. 360 dated 28.12.78. Subject to hydraulic limitations as a flood overflow area. Further limitations have been set in accordance with law 431/85. The entire Ramsar wetland is comprised within the Regional Park of the Po Delta (Campotto di Argenta Station) established with regional law No.27 of 2.7.88. The regulations of the Territorial Plan of the Station have been in force since 1991 and are followed by the Municipality of Argenta (under approval by the Region). The Plan foresees zone B and C Ramsar sites in which hunting is forbidden. Management of the area as a nature reserve for the past decade has been by collaboration among local agencies, the land owners and the Emilia-Romagna Region. Technical and financial collaboration during this period has permitted reforestation with autochthonous essences of more than 15 Ha which were previously used for cultivation of poplars for industrial purposes, maintenance of footpaths and the setting up of observation points (suitably screened to minimise the environmental impact). The management is also adopting integrated agriculture foreseen in EU regulation 2078, allocating 10 Ha for hedges and woods (D1). A twenty-year withdrawal is foreseen of about 50 Ha (F1) to be carried out in 1998/99 and 1999/2000. The recent Life-Nature project which was aimed at counteracting certain changes to the characteristic habitats of the wetland (which would have impoverished the biodiversity of the area), included activities to restore correct water circulation with consequent renewal and oxygenation of the water within the flood overflow area, studies and counts of damaging</td>
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species (*Myocatur coypus*, *Carassius auratus* and *Silurus glanis*), and monitoring activities regarding the main physical-chemical properties of the waters (which is planned to continue).

24. **Conservation measures proposed but not yet implemented:** (e.g. management plan in preparation; officially proposed as a protected area etc.)

The Territorial Plan of the Park gives the general plan for the area and defines the structural framework. The Plan indicates the general and sectorial objectives and the priorities, and specifies (by means of zoning, regulations, limitations, incentives and directives) the various uses to be made of the territory. The Plan also foresees conservation and re-naturalisation activities, partly underway and partly to be carried out in the next few years.

25. **Current scientific research and facilities:** (e.g. details of current projects; existence of field station etc.)

The site is regularly used for scientific research by university institutes, in particular by Bologna University with regard to the colonies of *Phalacrocorax carbo*, Ardeidae and *Chlidonias hybrida* (Prof. Paolo Boldreghini) and by the National Wildlife Institute, with centres for ringing, among others the Acrocefalini and *Hirundo rustica* (Dott. Fernando Spina).

Applied research has also been developed with the previously described Life-Nature project. The management consortium of the regional Park signed a protocol of understanding with the Regional Agency for Conservation and Environment (ARPA), in 1997, to carry out annual programmes of control and monitoring activities of the quality of the environment over the entire park, the first results of which have already been published.

26. **Current conservation education:** (e.g. visitors centre, hides, information booklet, facilities for school visits etc.)

The following facilities are present in the area: the “Argenta Valley Museum” (visitors’ centre of the regional Park - which received the European Council Museum Prize in 1992) and the “Land Reclamation Museum of the Argenta Valley” (situatated at the Saiarino water pump - to promote awareness of the past and present water management of the area).

A considerable amount of documentation has been produced (prepared by local agencies, the Region, the Park and nature associations) for educational and teaching purposes which illustrates the natural characteristics and the recreational, cultural and tourist opportunities offered by the area.

The activities of environmental education (guided tours and schools trips) are run by a co-operative which also manages the Argenta Valley Museum.

27. **Current recreation and tourism:** (state if wetland is used for recreation/tourism; indicate type and frequency/intensity)

The area is a recreational and cultural attraction for tourists and many educational activities are carried out.

28. **Jurisdiction:** (territorial e.g. state/region and functional e.g. Dept of Agriculture/Dept. of Environment etc.)

Region: Emilia-Romagna; Province: Ferrara; Municipality: Argenta.

29. **Management authority:** (name and address of local body directly responsible for managing the wetland)

Management of the site is carried out by the Rena Land Reclamation Consortium as owner and/or user of the area, in accordance with the regulations foreseen by the Territorial Plan of the Po Delta Park. In consideration of the particular cultural and natural importance of the area, the management is a result of collaboration among the Land Reclamation Consortium, the Municipality of Argenta and the regional Delta Po Park and is governed by a specific Convention.
30. Bibliographical references: (scientific/technical only)


- Costa M. & Gustin M., in print. “Breeding population of Whiskered Tern, Chlidonias hybridus, in Emilia-Romagna, Italy”.


- Piccoli F., 1976. “Flora e vegetazione delle casse di espansione di Campotto e Valle Santa (Ferrara)”. (Flora and vegetation in the flood overflow areas of Campotto and Santa Valley) Lavori della Società Italiana di Biogeografia, nuova serie, vol. IV.
