

SPANISH RAMSAR GROUNDWATER RELATED WETLANDS ASSESSED

General flow types of wetlands considered in this work

Flow through: Wetland is connected to a shallow aquifer and the water-table slope induces groundwater discharge in the upstream part of the wetland and aquifer recharge in the downstream part of the wetland.

Recharge area: Wetland water elevation is higher than the aquifer water-table elevation (wetland may even be perched). Wetland water sources may be precipitation, overland flow, rivers, sea water or artificial supply, but the dominant outflow mechanism is infiltration by lateral or by downwards flow, producing aquifer recharge.

Discharge area, open: wetland receives groundwater discharge and the dominant natural mechanism of wetland evacuation is surface water outflow.

Discharge area, closed, saline: wetland receives groundwater discharge and the dominant natural mechanism of wetland evacuation is evapotranspiration. Wetland water and sediments are increasingly saline.

Discharge area, closed, non-saline: Wetland receives groundwater discharge and the dominant natural mechanism of wetland evacuation is evapotranspiration, but surface water outflow occurs from time to time, avoiding wetland salinization.

Crypto-wetland/hidden wetland: Water table is very shallow under and around the wetland, which does not stand water but has permanent/semipermanent characteristics phreatophytic vegetation masses. Examples: salt pans, salt and brackish.

General types of wetlands considered in this work. They result from the combination of one (or more) number and one (or more) letter.

1 Isolated wetland	A Fresh/brackish coastal lagoon/lake	H Flood plain pool/lake	O Dune slacks
2 Wetland complex	B Salt lake	I Deltaic lagoon/pool	P Springs
3 Isolated within wetland complex	C Salt pan	J Estuary	Q Seepage from shallow water table
	D Natural, concentrated spring or outflow	K Riparian forest	R Saline (artificial)
	E Fresh-water marsh	L Erosive depression	S Reservoir (artificial)
	F Brackish marsh	M Tectonic depression	T Other
	G Salt marsh	N Water course	