

ECOSYSTEMS AND PROTECTED AREA MONITORING FIELD FORM I: FULL ECOSYSTEM DATA FORM

Tracking data				
Site Code*: ___ / ___ / ___ / ___ / ___	Quadrant and O: 1- ___ - ___ - ___ - ___	UTM Zone: ___	Length: ___ m	Top map nr.:
Initials observer*: ___	Latitude (N): ___ - ___ - ___ - ___	UTM X: ___ - ___ - ___ - ___	Width: ___ m	Munic.:
Organization code: ___	Date*: 200 ___ - ___ - ___	UTM Y: ___ - ___ - ___ - ___	Orientation: ___ °	Photo number:
Protected area: ___	LT: ___ - ___ - ___ - ___	Geographic range: ___	Radius: ___ m	___ / ___

Directions and comments:

Data on Human Influence

Type of land administration	Perturbation land ecosystem	Perturbation aquatic ecosystem	Perturbation cause
1 Man and Biosphere Reserve 2 World Heritage Site 3 ecological or nature reserve 4 national park 5 national forest 6 fauna reserve 7 recreation area	8 communal land 9 private reserve 10 private land 11 non-defined national land 12 other	0 natural 1 modified natural class 1 2 modified natural class 2 3 modified natural class 3 4 agricultural systems 5 urban environment 6 other	0 natural 1 modified natural class 1 2 modified natural class 2 3 modified natural class 3 4 man-made water system 5 aquaculture 6 other
			1 fire 2 wind 3 insects 4 disease 5 logging 6 grazing
			7 drought 8 flooding 9 recreation pressure 10 pollution 11 other

Data on Physical Elements

Land formation	Position on Slope:	Elevation source:	Soil geology:	Soil type:	Soil color:	Moist regime I by season			Drainage		
1 mountain 2 hill 3 footridge/slope 4 plateau 5 upland 6 piedmont 7 valley 8 coastal plain 9 flood plain 10 dune 11 lava flow 12 other	1 top 2 upper slope 3 mid slope 4 lower slope 5 base	1 altimeter; 2 gps 3 map Elevation: ___ m Slope angle: ___ ° Orientation: ___ ° pH: (1) acid, (2) acid-neutral, (3) neutral, (4) alkaline	1 igneous 2 plutonic 3 metamorphic 4 sedimentary 5 non-consolidated 6 other	1 clay 2 lime 3 sand 4 clayey-sandy 5 clayey-limy 6 organic soil 7 peat 8 other	1 white 2 gray 3 brown 4 black 5 ochre 6 red 7 other	Wet 1 2 3 4 5	Season desiccated dry moist wet saturated	Dry 1 2 3 4 5	1 well drained 2 moderately drained 3 poorly drained 4 period. inund. 5 permanently inund. 6 irrigated 7 impounded		
Aquatic formation		Water characteristics		Composition of the water bottom		Depth source: (1) map (2) estimate (3) measurement					
1 marine system 2 estuary 3 river 4 coastal lake 5 coastal canal 6 inland lake		7 volcanic lake 8 karstic lake 9 reservoir 10 dredged system 11 swamp / marsh 12 other		1 fresh 2 brackish 3 saline 4 volcanic solvents 5 thermal 6 other		1 soft sediments 2 sand 3 rock debris 4 bedrock 5 coral 6 other		Depth: ___ m Submerged shore slope: ___ ° Flow velocity: ___ km/hr Duration inundation: ___ days/year (400 = tidal) Inundation season: ___ / ___ (month / month) Estimated normal fluctuations: ___ m			

Comments regarding physical elements:

Data on the Vegetation

UNESCO physiognomy	Indicator life forms: %	Ecosystem dynamics:	years:
1 IA1 Tropical ombrophilous forest 2 IA2 Tropical or subtropical evergreen Seasonal forest 3 IA3 Tropical or subtropical semi-deciduous forest 4 IA4 Subtropical ombrophilous forest 5 IA5 Mangrove forest 6 IB Mainly deciduous forest 7 IC Extremely xeromorphous forest	8 IIA Mainly evergreen woodland 9 IIB Mainly deciduous woodland 10 IIC Extremely xeromorphous woodland 11 IIIA Mainly evergreen scrub 12 IIIB Mainly deciduous scrub 13 IIIC Extremely xeromorphous scrub 14 IVA Mainly evergreen dwarf-scrub 15 IVB Mainly deciduous dwarf-scrub 16 IVC Extremely xeromorphous dwarf-scrub	17 IVE Mossy bog formations with dwarf-scrub 18 VA Savanna and related grassland 19 VB Steppe or related grassland 20 VC Pasture or related grassland 21 VD Sedge swamp or flush 22 VE Herbaceous and half-woody salt swamp 23 VF Forb vegetation 24 VIA Scarcely vegetated rock or scree 25 VIB Scarcely vegetated sand dune 26 VIIA Floating meadow 27 VIIB Reed-swamp	28 VIIC Rooted floating community 29 VIID Rooted underwater community 30 VIIE Free-floating (non-rooted) fresh water community 31 VIIE Open water
Distribution		Classification system:	
1 random uniform 2 ordered uniform 3 random clumped 4 ordered clumped 5 linear		Detailed ecosystem -class:	
Texture		Ecosystem dynamics:	
1 homogenous 2 fine mazed 3 medium mazed 4 coarse mazed 5 very coarse		1 pristine 2 ancient 3 old secondary growth 4 recent secondary growth 5 dynamic 6 very dynamic	
Indicator life forms: %		years:	
Arboreal Palms: ___ % Acaule Palms: ___ % Tree Ferns: ___ %		Vines: (0) (1) (2) (3) Drapery Epiphytes: (0) (1) (2) (3) Sessile Epiphytes: (0) (1) (2) (3) Climbing epiphytes: (0) (1) (2) (3)	
Tree Stratum (> 5m)		Ground Stratum (< 1m)	
Height: ___ m Densimeter: (1) no (2) concave (3) convex Canopy cover: ___ % Basal area cover: ___ trees		Height: ___ m plant cover: ___ % Dwarf shrub cover: ___ % Non-vascular cover: ___ % Fallen wood: ___ % Organic matter: ___ % Rock: ___ % Mineral soil: ___ % Water: ___ %	
Leaf morphology:		Herbal Leaf morphology	
1 none 2 broadleaf orthophilous 3 broadleaf sclerophilous 4 needleleaf 5 palmate		6 cactus/thorn 7 bamboo 8 graminoid 9 forb 10 mixed bl/nl	
Canopy leaf phenology:		Herbal Periodicity	
1 evergreen > 80% evergreen 2 semi-evergreen 61-80% evergreen 3 mixed 41-60% evergreen 4 semi-deciduous 61-80% deciduous 5 deciduous > 80% deciduous		1 no periodicity 2 ephemeral 3 annual 4 cryptophytic 5 perennial	

Tree Stratum (> 5m)	Shrub Stratum (1 - 5 m)	Ground Stratum (< 1m)	Aquatic Ecosystem
Height: ___ m Densimeter: (1) no (2) concave (3) convex Canopy cover: ___ % Basal area cover: ___ trees	Height min.: ___ max.: ___ m Plant cover: ___ % Herbaceous species: ___ % Shrub leaf morphology: Shrub leaf morphology 1 evergreen > 80% e 2 semi-evergreen 61-80% e 3 mixed 41-60% e 4 semi-deciduous 61-80% d 5 deciduous > 80% d	Height: ___ m plant cover: ___ % Dwarf shrub cover: ___ % Non-vascular cover: ___ % Fallen wood: ___ % Organic matter: ___ % Rock: ___ % Mineral soil: ___ % Water: ___ %	Floating vegetation: ___ % Submerged vegetation: ___ %
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