CENTRAL AMERICA ECOSYSTEMS 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: _ _ _ º	Photo number:
Protected area:	LT: _ _ - _ _	Geographic range:	Radius: _ _ _ m	_ _ / _ _

Directions and comments:

Data on Human Influence

Type of land administration
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

Perturbation land ecosystem
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

Perturbation aquatic ecosystem
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

Perturbation cause
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
1 mountain
2 hill
3 footridge/slope
4 plateau
5 upland
6 piedmont plain
7 valley
8 coastal plain
9 flood plain
10 dune
11 lava flow
12 other

Position on Slope:
1 top
2 upper slope
3 mid slope
4 lower slope
5 base

Elevation source:
1 altimeter; 2 gps
3 map
Elevation: _ _ _ m
Slope angle: _ _ º
Orientation: _ _ _ º
pH: (1) acid, (2) acid-neutral, (3) neutral, (4) alkaline

Soil geology:
1 igneous
2 plutonic
3 metamorphic
4 sedimentary
5 non-consolidated
6 other

Soil type:
1 clay
2 lime
3 sand
4 clayey-sandy
5 clayey-limy
6 organic soil
7 peat
8 other

Soil color:
1 white
2 gray
3 brown
4 black
5 ochre
6 red
7 other

Moist regime I by season

Wet	Season	Dry
1	desiccated	1
2	dry	2
3	moist	3
4	wet	4
5	saturated	5

Drainage
1 well drained
2 moderately drained
3 poorly drained
4 period. inund.
5 permanently inund.
6 irrigated
7 impounded

Aquatic formation
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

Water characteristics
1 fresh
2 brackish
3 saline
4 volcanic dissolvents
5 thermal
6 other

Composition of the water bottom
1 soft sediments
2 sand
3 rock debris
4 bedrock
5 coral
6 other

Depth source: (1) map (2) estimate(3) measurement
Depth: _ _ . _ _ m
Submerged shore slope: _ _ º
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
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 xeromorphic forest
8 IIA Mainly evergreen woodland
9 IIB Mainly deciduous woodland
10 IIC Extremely xeromorphic woodland
11 IIIA Mainly evergreen scrub
12 IIIB Mainly deciduous scrub
13 IIIC Extremely xeromorphic scrub
14 IVA Mainly evergreen dwarf-scrub
15 IVB Mainly deciduous dwarf-scrub
16 IVC Extremely xeromorphic 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 VIII Open water

Classification system:
Detailed ecosystem -class:

Distribution
1 random uniform
2 ordered uniform
3 random clumped
4 ordered clumped
5 linear

Texture
1 homogenous
2 fine mazed
3 medium mazed
4 coarse mazed
5 very coarse

Indicator life forms: %, (0) absent, (1) rare, (2) common, (3) abundant

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)

Ecosystem dynamics: years:
1 pristine
2 ancient > 200
3 old secondary growth 41 – 200
4 recent secondary growth 11 – 40
5 dynamic 5 – 10
6 very dynamic 0 – 5

Tree Stratum (> 5m)

Height: _ _ m
Densiometer: (1) no (2) concave (3) convex
Canopy cover: %
Basal area cover: _ _ trees

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:
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

Shrub Stratum (1 – 5 m)

Height min.: _ . _ max.: _ . _ m
Plant cover: %
Herbaceous species: %
Shrub leaf morphology:

Shrub leaf phenology
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

Periodicity (tall) herbs
1 no periodicity
2 ephemeral
3 annual
4 cryptophytic
5 perennial

Ground Stratum(< 1m)

Height: _ . _ _ m
plant cover: %
Dwarf shrub cover: %
Non-vascular cover: %
Fallen wood: %
Organic matter: %
Rock: %
Mineral soil: %
Water: %

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

Herbal Periodicity
1 no periodicity
2 ephemeral
3 annual
4 cryptophytic
5 perennial

Aquatic Ecosystem

Floating vegetation: %
Submerged vegetation: %

Comments regarding the vegetation: