

**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: - - - ° | Photo number: |
| Protected area: - - - -    | LT: - - - -              | Geographic range: - - - - | Radius: - - - m      | - - / - -     |

**Directions and comments:**

**Data on Human Influence**

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

**Data on Physical Elements**

| <u>Land formation</u> | <u>Position on Slope:</u> | <u>Elevation source:</u>                                  | <u>Soil geology:</u> | <u>Soil type:</u> | <u>Soil color:</u> | <u>Moist regime I by season</u> |                          |            | <u>Drainage</u>      |
|-----------------------|---------------------------|---|----------------------|-------------------|--------------------|---------------------------------|--------------------------|------------|----------------------|
|                       |                           |   |                      |                   |                    | <u>Wet</u>                      | <u>Season desiccated</u> | <u>Dry</u> |                      |
| 1 mountain            | 1 top                     | 1 altimeter; 2 gps  | 1 igneous            | 1 clay            | 1 white            | 1                               | 1                        | 1          | 1 well drained       |
| 2 hill                | 2 upper slope             | 3 map   | 2 plutonic           | 2 lime            | 2 gray             | 2                               | 2                        | 2          | 2 moderately drained |
| 3 footridge/slope     | 3 mid slope               | Elevation: - - m  | 3 metamorphic        | 3 sand            | 3 brown            | 3                               | 3                        | 3          | 3 poorly drained     |
| 4 plateau             | 4 lower slope             | Slope angle: - - °  | 4 sedimentary        | 4 clayey-sandy    | 4 black            | 4                               | 4                        | 4          | 4 period. inund.     |
| 5 upland              | 5 base                    | Orientation: - - °  | 5 non-consolidated   | 5 clayey-limy     | 5 ochre            | 5                               | 5                        | 5          | 5 permanently inund. |
| 6 piedmont            |                           | pH: (1) acid, (2) acid-neutral, (3) neutral, (4) alkaline | 6 other              | 6 organic soil    | 6 red              |                                 |                          |            | 6 irrigated          |
| 7 plain               |                           |   |                      | 7 peat            | 7 other            |                                 |                          |            | 7 impounded          |
| 8 valley              |                           |   |                      | 8 other           |                    |                                 |                          |            |                      |
| 9 coastal plain       |                           |   |                      |                   |                    |                                 |                          |            |                      |
| 10 flood plain        |                           |   |                      |                   |                    |                                 |                          |            |                      |
| 11 lava flow          |                           |   |                      |                   |                    |                                 |                          |            |                      |
| 12 other              |                           |   |                      |                   |                    |                                 |                          |            |                      |

  

| <u>Aquatic formation</u> | <u>Water characteristics</u> | <u>Composition of the water bottom</u> | <u>Depth source:</u> (1) map (2) estimate (3) measurement |
|--------------------------|------------------------------|--|---|
| 1 marine system          | 1 fresh                      | 1 soft sediments                       | <u>Depth:</u> - - - m                                     |
| 2 estuary                | 2 brackish                   | 2 sand                                 | <u>Submerged shore slope:</u> - - °                       |
| 3 river                  | 3 saline                     | 3 rock debris                          | <u>Flow velocity:</u> - - - km/hr                         |
| 4 coastal lake           | 4 volcanic dissolvents       | 4 bedrock                              | <u>Duration inundation:</u> - - - days/year (400 = tidal) |
| 5 coastal canal          | 5 thermal                    | 5 coral                                | <u>Inundation season:</u> - - / - - (month / month)       |
| 6 inland lake            | 6 other                      | 6 other                                | <u>Estimated normal fluctuations:</u> - - - m             |

**Comments regarding physical elements:**

**Data on the Vegetation**

| <u>UNESCO physiognomy</u>                               | <u>Indicator life forms:</u> %, (0) absent, (1) rare, (2) common, (3) abundant | <u>Ecosystem dynamics:</u> years: |
|---|--|-----------------------------------|
| 1 IA1 Tropical ombrophilous forest                      | 17 IVE Mossy bog formations with dwarf-scrub                                   | 1 pristine                        |
| 2 IA2 Tropical or subtropical evergreen Seasonal forest | 18 VA Savanna and related grassland  | 2 ancient > 200                   |
| 3 IA3 Tropical or subtropical semi-deciduous forest     | 19 VB Steppe or related grassland  | 3 old secondary growth 41 - 200   |
| 4 IA4 Subtropical ombrophilous forest                   | 20 VC Pasture or related grassland   | 4 recent secondary growth 11 - 40 |
| 5 IA5 Mangrove forest                                   | 21 VD Sedge swamp or flush   | 5 dynamic 5 - 10                  |
| 6 IB Mainly deciduous forest                            | 22 VE Herbaceous and half-woody salt swamp                                     | 6 very dynamic 0 - 5              |
| 7 IC Extremely xeromorphic forest                       | 23 VF Forb vegetation  |                                   |
| 8 IIA Mainly evergreen woodland                         | 24 VIA Scarcely vegetated rock or scree  |                                   |
| 9 IIB Mainly deciduous woodland                         | 25 VIB Scarcely vegetated sand dune  |                                   |
| 10 IC Extremely xeromorphic woodland                    | 26 VIIA Floating meadow  |                                   |
| 11 IIIA Mainly evergreen scrub                          | 27 VIIB Reed-swamp   |                                   |
| 12 IIIB Mainly deciduous scrub                          |  |                                   |
| 13 IIIC Extremely xeromorphic scrub                     |  |                                   |
| 14 IIVA Mainly evergreen dwarf-scrub                    |  |                                   |
| 15 IIVB Mainly deciduous dwarf-scrub                    |  |                                   |
| 16 IIVC Extremely xeromorphic dwarf-scrub               |  |                                   |

  

| <u>Distribution</u> | <u>Texture</u> | <u>Arboreal Palms:</u> - - - % | <u>Vines:</u> (0) (1) (2) (3)              | <u>Herbal Leaf morphology</u> | <u>Aquatic Ecosystem</u>      |
|---------------------|----------------|--------------------------------|--|-------------------------------|-------------------------------|
| 1 random uniform    | 1 homogenous   | <u>Acaule Palms:</u> - - - %   | <u>Drapery Epiphytes:</u> (0) (1) (2) (3)  | 1 none                        | <u>Floating vegetation:</u> % |
| 2 ordered uniform   | 2 fine mazed   | <u>Tree Ferns:</u> - - - %     | <u>Sessile Epiphytes:</u> (0) (1) (2) (3)  | 2 broadleaf orthophilous      | <u>Submerged</u>              |
| 3 random clumped    | 3 medium mazed |                                | <u>Climbing epiphytes:</u> (0) (1) (2) (3) | 3 broadleaf sclerophilous     | <u>vegetation:</u> %          |
| 4 ordered clumped   | 4 coarse mazed |                                |  | 4 needleleaf                  |                               |
| 5 linear            | 5 very coarse  |                                |  | 5 palmate                     |                               |

  

| <u>Tree Stratum (&gt; 5m)</u>                    | <u>Shrub Stratum (1 - 5 m)</u>             | <u>Ground Stratum (&lt; 1m)</u> | <u>Herbal Periodicity</u> |
|--|--|---------------------------------|---------------------------|
| <u>Height:</u> - - - m                           | <u>Height min.:</u> - - <u>max.:</u> - - m | <u>Height:</u> - - - m          | 1 no periodicity          |
| <u>Densimeter:</u> (1) no (2) concave (3) convex | <u>Plant cover:</u> %                      | <u>plant cover:</u> %           | 2 ephemeral               |
| <u>Canopy cover:</u> %                           | <u>Herbaceous species:</u> %               | <u>Dwarf shrub cover:</u> %     | 3 annual                  |
| <u>Basal area cover:</u> - - trees               | <u>Shrub leaf morphology:</u>              | <u>Non-vascular cover:</u> %    | 4 cryptophytic            |
| <u>Leaf morphology:</u>                          | <u>Shrub leaf phenology</u>                | <u>Fallen wood:</u> %           | 5 perennial               |
| 1 none   | 1 evergreen > 80% e                        | <u>Organic matter:</u> %        |                           |
| 2 broadleaf orthophilous                         | 2 semi-evergreen 61-80% e                  | <u>Rock:</u> %                  |                           |
| 3 broadleaf sclerophilous                        | 3 mixed 41-60% e                           | <u>Mineral soil:</u> %          |                           |
| 4 needleleaf                                     | 4 semi-deciduous 61-80% d                  | <u>Water:</u> %                 |                           |
| 5 palmate  | 5 deciduous > 80% d                        |                                 |                           |
|  | <u>Periodicity (tall) herbs</u>            |                                 |                           |
|  | 1 no periodicity                           |                                 |                           |
|  | 2 ephemeral                                |                                 |                           |
|  | 3 annual                                   |                                 |                           |
|  | 4 cryptophytic                             |                                 |                           |
|  | 5 perennial                                |                                 |                           |

**Comments regarding the vegetation:**





**Ecosystems Monitoring Field Form III: Taxa (fauna)**

| TG | Family | Genus | Species | Certainty | Size | Pp | Lv | Egg | Str | Sphere   | Wp | Substrate | Ot | Od | Flg | Nr tot | Nr fm | Nr ml | Nr juv | Nr ru | Sh y | Vit | W | Code | LT | Longitude | Latitude |
|----|--------|-------|---------|-----------|------|----|----|-----|-----|----------|----|-----------|----|----|-----|--------|-------|-------|--------|-------|------|-----|---|------|----|-----------|----------|
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|    |        |       |         |           |      |    |    |     | //  | // // // |    |           |    |    |     |        |       |       |        |       |      |     |   |      | /  | / /       | / /      |
|    |        |       |         |           |      |    |    |     | //  | // // // |    |           |    |    |     |        |       |       |        |       |      |     |   |      | /  | / /       | / /      |
|    |        |       |         |           |      |    |    |     | //  | // // // |    |           |    |    |     |        |       |       |        |       |      |     |   |      | /  | / /       | / /      |
|    |        |       |         |           |      |    |    |     | //  | // // // |    |           |    |    |     |        |       |       |        |       |      |     |   |      | /  | / /       | / /      |
|    |        |       |         |           |      |    |    |     | //  | // // // |    |           |    |    |     |        |       |       |        |       |      |     |   |      | /  | / /       | / /      |
|    |        |       |         |           |      |    |    |     | //  | // // // |    |           |    |    |     |        |       |       |        |       |      |     |   |      | /  | / /       | / /      |
|    |        |       |         |           |      |    |    |     | //  | // // // |    |           |    |    |     |        |       |       |        |       |      |     |   |      | /  | / /       | / /      |
|    |        |       |         |           |      |    |    |     | //  | // // // |    |           |    |    |     |        |       |       |        |       |      |     |   |      | /  | / /       | / /      |
|    |        |       |         |           |      |    |    |     | //  | // // // |    |           |    |    |     |        |       |       |        |       |      |     |   |      | /  | / /       | / /      |
|    |        |       |         |           |      |    |    |     | //  | // // // |    |           |    |    |     |        |       |       |        |       |      |     |   |      | /  | / /       | / /      |
|    |        |       |         |           |      |    |    |     | //  | // // // |    |           |    |    |     |        |       |       |        |       |      |     |   |      | /  | / /       | / /      |
|    |        |       |         |           |      |    |    |     | //  | // // // |    |           |    |    |     |        |       |       |        |       |      |     |   |      | /  | / /       | / /      |
|    |        |       |         |           |      |    |    |     | //  | // // // |    |           |    |    |     |        |       |       |        |       |      |     |   |      | /  | / /       | / /      |
|    |        |       |         |           |      |    |    |     | //  | // // // |    |           |    |    |     |        |       |       |        |       |      |     |   |      | /  | / /       | / /      |
|    |        |       |         |           |      |    |    |     | //  | // // // |    |           |    |    |     |        |       |       |        |       |      |     |   |      | /  | / /       | / /      |
|    |        |       |         |           |      |    |    |     | //  | // // // |    |           |    |    |     |        |       |       |        |       |      |     |   |      | /  | / /       | / /      |
|    |        |       |         |           |      |    |    |     | //  | // // // |    |           |    |    |     |        |       |       |        |       |      |     |   |      | /  | / /       | / /      |
|    |        |       |         |           |      |    |    |     | //  | // // // |    |           |    |    |     |        |       |       |        |       |      |     |   |      | /  | / /       | / /      |
|    |        |       |         |           |      |    |    |     | //  | // // // |    |           |    |    |     |        |       |       |        |       |      |     |   |      | /  | / /       | / /      |
|    |        |       |         |           |      |    |    |     | //  | // // // |    |           |    |    |     |        |       |       |        |       |      |     |   |      | /  | / /       | / /      |
|    |        |       |         |           |      |    |    |     | //  | // // // |    |           |    |    |     |        |       |       |        |       |      |     |   |      | /  | / /       | / /      |
|    |        |       |         |           |      |    |    |     | //  | // // // |    |           |    |    |     |        |       |       |        |       |      |     |   |      | /  | / /       | / /      |
|    |        |       |         |           |      |    |    |     | //  | // // // |    |           |    |    |     |        |       |       |        |       |      |     |   |      |    |           |          |



**CENTRAL AMERICA ECOSYSTEMS MONITORING FIELD FORM IV: WATER DATA**

**Tracking data**

|   |  |  |                          |              |
|---|--|--|--------------------------|--------------|
| Site code*:<br>_ / _ / _ / _ / _ / _    | Quadrant and W*: 1-<br>_ - - - - - - - - | UTM Zone: _ -                          | Date*:<br>200_ - - - -   | Top map nr.: |
| Initials observer*:<br>_ - - - -        | Latitude (N)*:<br>_ - - - - - - - -      | UTM X: _ - - - - - - - -               | LT:<br>_ - - - - - - - - |              |
| Organization code:<br>_ - - - - - - - - |  | UTM Y: _ - - - - - - - -               |                          |              |
| Protected area:                         |  | Geographic range:<br>_ - - - - - - - - |                          |              |

| <b>Parameter</b>        | <b>Sample series 1</b> | <b>Sample series 2</b> | <b>Sample series 3</b> | <b>Sample series 4</b> | <b>Sample series 5</b> |
|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| <b>Flow velocity</b>    |                        |                        |                        |                        |                        |
| <b>Transparency</b>     |                        |                        |                        |                        |                        |
| <b>pH</b>               |                        |                        |                        |                        |                        |
| <b>Conductivity</b>     |                        |                        |                        |                        |                        |
| <b>Suspended matter</b> |                        |                        |                        |                        |                        |
| <b>Organic matter</b>   |                        |                        |                        |                        |                        |
| <b>Bacteria</b>         |                        |                        |                        |                        |                        |
| <b>Na</b>               |                        |                        |                        |                        |                        |
| <b>K</b>                |                        |                        |                        |                        |                        |
| <b>Ca</b>               |                        |                        |                        |                        |                        |
| <b>Mg</b>               |                        |                        |                        |                        |                        |
| <b>Cl</b>               |                        |                        |                        |                        |                        |
| <b>HCO3</b>             |                        |                        |                        |                        |                        |
| <b>NKJ</b>              |                        |                        |                        |                        |                        |
| <b>NH4</b>              |                        |                        |                        |                        |                        |
| <b>P-Total</b>          |                        |                        |                        |                        |                        |
| <b>PO4</b>              |                        |                        |                        |                        |                        |
| <b>SO4</b>              |                        |                        |                        |                        |                        |
| <b>NO2</b>              |                        |                        |                        |                        |                        |
| <b>NO3</b>              |                        |                        |                        |                        |                        |
| <b>BOD5</b>             |                        |                        |                        |                        |                        |
| <b>COD</b>              |                        |                        |                        |                        |                        |
| <b>Mineral oils</b>     |                        |                        |                        |                        |                        |
| <b>As</b>               |                        |                        |                        |                        |                        |
| <b>Cu</b>               |                        |                        |                        |                        |                        |
| <b>Mn</b>               |                        |                        |                        |                        |                        |
| <b>Ni</b>               |                        |                        |                        |                        |                        |
| <b>Pb</b>               |                        |                        |                        |                        |                        |
| <b>Fe</b>               |                        |                        |                        |                        |                        |
| <b>Cr</b>               |                        |                        |                        |                        |                        |
| <b>Cd</b>               |                        |                        |                        |                        |                        |
| <b>Co</b>               |                        |                        |                        |                        |                        |
| <b>Hg</b>               |                        |                        |                        |                        |                        |
| <b>Ur</b>               |                        |                        |                        |                        |                        |
| <b>PCB</b>              |                        |                        |                        |                        |                        |
| <b>PAC</b>              |                        |                        |                        |                        |                        |
| <b>DDT</b>              |                        |                        |                        |                        |                        |
| <b>Dieldrin</b>         |                        |                        |                        |                        |                        |
| <b>Lindane</b>          |                        |                        |                        |                        |                        |

**Remarks:**











