

# METADATA ESTONIA

|                               |            |
|-------------------------------|------------|
| <b>Title of working unit:</b> | <b>634</b> |
|-------------------------------|------------|

## A: GENERAL INFORMATION

|                     |                                |
|---------------------|--------------------------------|
| <b>Contractor:</b>  | Gisat s.r.o.                   |
| <b>Address:</b>     | Charkovska 7, Prague 10, 10100 |
| <b>Phone:</b>       | +(420-2) 71741935              |
| <b>Fax:</b>         | +(420-2) 71741936              |
| <b>Responsible:</b> | Tomas Soukup                   |
| <b>E-mail:</b>      | Tomas.soukup@gisat.cz          |

|                        |  |
|------------------------|--|
| <b>Contracted:</b>     | Estonian Environment Information Centre  |
| <b>Address:</b>        | Mustamäe tee 33, 10616, Tallinn, Estonia |
| <b>Phone:</b>          | +372 7 427 767, +372 6 737 577           |
| <b>Fax:</b>            | +372 6 564 071                           |
| <b>Project leader:</b> | Kiira Aaviksoo                           |
| <b>E-mail:</b>         | Kiira.Aaviksoo@ic.envir.ee               |

### 1. IMAGE1975 data used

| Landsat MSS provided or other scene(s) |       |     |              |                      |
|--|-------|-----|--------------|----------------------|
| Satellite & Sensor                     | Path- | Row | Date (m/d/y) | Remark (e.g. clouds) |
| Landsat MSS                            | 202   | 18  | 05/24/1976   | OK                   |

### 2. Topographic maps used (indicate in remark if digital)

| Scale       | Sheet id           | Title/Name        | Year of production | Year of last revision | Remark         |
|-------------|--------------------|-------------------|--------------------|-----------------------|----------------|
| 1:10000     | 634                | Cadastral data    | 1995               |                       | B/w digital    |
| 1 : 100 000 | C-59-24<br>C-59-25 | Estonian top. Map | 1972<br>1973       | 1971<br>1971-73       | B/w paper copy |
| 1 : 100 000 | O-35-14            | Estonian top. Map | 1981               | 1979                  | B/w digital    |
| 1 : 100 000 | O-35-15            | Estonian top. Map | 1982               | 1981                  | B/w digital    |
| 1 : 100 000 | O-35-16            | Estonian top. Map | 1982               | 1981                  | B/w digital    |
| 1 : 2 000   | 9 sheets           | Lagedi top. Maps  |                    | 1979                  |                |
| 1 : 2 000   | 11 sheets          | Jüri top. Maps    |                    | 1978                  |                |

### 3. Other ancillary data used (thematic data, satellite images, aerial photos, city maps, vegetation maps)

| Id       | Data source/type  | Title (if relevant)          | Date of production (m/d/y) | Scale (spatial detail) | Remark                  |
|----------|-------------------|------------------------------|----------------------------|------------------------|-------------------------|
| 14,15,16 | Agricultural maps | Eesti põllumajanduslik kaart | 1973                       | 1 : 50 000             | B/w paper copy, digital |
| 0544     |                   | CORONA data                  | 05/14/1974                 | ~15m                   | B/w digital             |

### 4. Photointerpreter(s)

| Name         | Affiliation | Phone          | E-mail                   | Interpretation |             |             |
|--------------|-------------|----------------|--------------------------|----------------|-------------|-------------|
|              |             |                |                          | start (m/d/y)  | End (m/d/y) | no. of days |
| Katre Daniel | EEIC        | +372 7 427 767 | Katre.daniel@ic.envir.ee | 05/14/2003     | 05/15/2003  | 2           |
|              |             |                |                          | 08/16/2003     | 08/18/2003  | 3           |

## B: DATA PREPARATION

### 1. Checking and systematic correction of IMAGE90 data (optional)

| Landsat TM or any other satellite scenes used (e.g. SPOT) |       |     |              |                                 |                                       |                         |                           |
|---|-------|-----|--------------|---------------------------------|---------------------------------------|-------------------------|---------------------------|
| Satellite & Sensor  | path- | row | Date (m/d/y) | Max. systematic geom. Error (m) | (optional) Checked & corrected (name) | (optional) Date (m/d/y) | (optional) Reference data |
| Landsat 5 TM  | 187   | 19  | 07/27/1994   | 25 - 50 m                       |                                       |                         |                           |

### 2. Checking and systematic correction of CLC90 data

| Corrections        | Type of correction    | Checked and Corrected by | Date (m/d/y) |            | Remarks |
|--------------------|-----------------------|--------------------------|--------------|------------|---------|
|                    |                       |                          | Start        | end        |         |
| Geometrical errors | Systematic correction | Tiina Dislis             | 04/25/2003   | 04/25/2003 |         |
|                    | Local correction      | Tiina Dislis             | 04/25/2003   | 04/25/2003 |         |

|                 |  |                               |                          |                          |                            |
|-----------------|--|-------------------------------|--------------------------|--------------------------|----------------------------|
| Thematic errors | Logical coherence*                           | Katre Daniel,<br>Tiina Dislis | 06/13/2003<br>07/18/2003 | 06/14/2003<br>07/20/2003 |                            |
|                 | Semantic accuracy**<br>and exhaustiveness*** | Kiira Aaviksoo                | 06/19/2003<br>07/18/2003 | 06/19/2003<br>07/20/2003 | Instead of 321-324 and 243 |

\* = respectation of internal rules of CLC (100 m, 25 ha) according to Tech.Guide and Addendum

\*\* = interpretation according to CLC nomenclature;

\*\*\* = details are appropriate

### 3. Verification and acceptance on national level

| Date (m/d/y)             | Accepted by                    | Signature | Remark  |
|--------------------------|--------------------------------|-----------|---|
| 07/20/2003<br>07/23/2003 | Tiina Dislis<br>Kiira Aaviksoo |           | Corrections made using cadastral maps in natural grasslands |

## C: INTERPRETATION OF CHANGES AND CREATION OF CLC1975

### 1. Photo-interpretation and internal quality control

| Date of submission (m/d/y) | Control made by | Date of control (m/d/y)  | Remark (errors, corrections, etc.)   |
|----------------------------|-----------------|--------------------------|--|
| 05/14/2003<br>08/16/2003   | Katre Daniel    | 07/07/2003<br>08/18/2003 | <ul style="list-style-type: none"> <li>- Change 12 to 112: Construction of new town district instead of old airfield</li> <li>- Changes 13 to 121: Industrial areas being under construction</li> <li>- Changes 13 and 32 to 512: Construction of artificial waterbody</li> <li>- Change 13 to 312: A new artificial waterbody was under construction. A part of construction area overgrown or afforested later.</li> <li>- Changes 33 to 324 or 312/313: Set aside extraction area with very little vegetation has recultivated and afforested</li> <li>- Changes 32 to 112 and 23 to 112: A capital of Estonia has widened</li> <li>- Change 52 to 123: Port area has widened</li> <li>- Change 41 to 324: Abandoned peat excavation</li> </ul> |

### 2. Field checking (if carried out) - no

| Date (m/d/y) | Itinerary (main settlements crossed on the working unit) | Problems checked and main conclusions |
|--------------|--|---------------------------------------|
| -            |  |                                       |

### 3. Border matching with neighbour working units

| Working unit /Country | Controlled and corrected by | Date (m/d/y) | Remark |
|-----------------------|-----------------------------|--------------|--------|
| 633,732,643           | Tiina Dislis                | 08/02/2003   |        |

## D: FINAL TECHNICAL QUALITY CONTROL

### 1. Control of topology, unnecessary boundaries, 25 ha limit, invalid codes and invalid changes

|             | Date (m/d/y) | Controlled by | Remark   |
|-------------|--------------|---------------|--|
| CLC1975     | 08/27/2003   | Tiina Dislis  | A few polygons < 20 and 5 ha were generalised  |
| CLC Changes | 08/27/2003   | Tiina Dislis  | A few polygons < 5 ha were generalised         |
| CLC90       | 08/28/2003   | Tiina Dislis  | A few polygons < 20 and 25 ha were generalised |

### 2. Verification and acceptance

|                   | Date (m/d/y) | Name           | Signature | Remark                                  |
|-------------------|--------------|----------------|-----------|---|
| National level    | 08/29/2003   | Kiira Aaviksoo |           | Changes next to towns (Tallinn, Maardu) |
| Integration level | 09/05/2003   | Erika Orlitová | GISAT     | Few cases (11, 12) discussed with EEIC  |
|                   | 09/22/2003   | Tomas Soukup   | GISAT     | Few cases discussed with EEIC           |

## E: SOFTWARE / HARDWARE

| Work phase                                    | Software used               | Hardware used |
|---|-----------------------------|---------------|
| Sy9stematic geometric correction of IMAGE90   | -                           | -             |
| Systematic geometric correction of CLC90      | -                           | -             |
| Topological and thematic corrections of CLC90 | ArcInfo 7.2.1., ArcView 3.2 | PC            |
| Interpretation of changes                     | ArcView 3.2                 | PC            |

|  |                |    |
|--|----------------|----|
| Creation of CLC1975                    | ArcView 3.2    | PC |
| Technical quality control              | ArcInfo 7.2.1. | PC |
| Database integration (border matching) | ArcInfo 7.2.1. | PC |