

METADATA LITHUANIA

Title of working unit:	311
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A: GENERAL INFORMATION

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

Contracted:	Institute of Ecology
Address:	Akademijos 2, 2600 Vilnius, Lithuania
Phone:	+370 5 2729251
Fax:	+370 5 2729257
Project leader:	Gedas Vaitkus
E-mail:	Gedas.vaitkus@ekoi.lt

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	204	21	07/07/1975	Good image, used as the main one for detection of changes
Landsat MSS	204	21	19/05/1974	Good image, used as additional source of info

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

Scale	Sheet id	Title/Name	Year of production	Year of last revision	Remark
1 : 50 000		Agricultural land use maps of Kretinga	1970		Digital – scanned and georeferenced. Good details on agricultural land use poor details on urban features
1 : 25 000		Military topomaps	1965 - 1980		Digital – high level of detail, but some misleading features included

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
	Landsat MSS	204/21	07/07/1975	50m	RGB 231 (vegetation)
	Landsat MSS	204/21	19/05/1974	50m	RGB 231 (vegetation)
0448		CORONA data	07/06/1975	~15m	B/w digital

4. Photointerpreter(s)

Name	Affiliation	Phone	E-mail	Interpretation		
				start (m/d/y)	End (m/d/y)	no. of days
Gedas Vaitkus	Institute of Ecology	+370 5 2729251	gedas@ekoi.lt	08/04/2003	08/29/2003	10
Daiva Vaitkuvienė	Institute of Ecology	+370 5 2729251	daiva @ekoi.lt	09/01/2003	09/12/2003	10

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	188	21	08/06/1995	X err.=4.2 Y err.=4.4 Total Error=6.1	Gedas Vaitkus	03/17/2003	IMAGE 2000

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	Gedas Vaitkus	06/30/2003	07/18/2003	Slight displacement in the middle of map-sheet
	Local correction	Gedas Vaitkus	06/30/2003	07/18/2003	Errors > 100 m were corrected
Thematic errors	Logical coherence*	Gedas Vaitkus	06/30/2003	07/18/2003	Many small polygons were removed
	Semantic accuracy** and exhaustiveness***	Gedas Vaitkus	06/30/2003	07/18/2003	242, 243 and 324 revised; some boundaries of 311, 312 and 313 re-interpreted based on multispectral satellite data

* = 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
08/08/2003	Rimas Kaulakys		Some new 243 and 324 polygons rejected after re-interpretation

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.)
08/08/2003	Gedas Vaitkus	08/10/2003	Some questionable changes revised within classes 211-231-242-243. Some changes within classes 243-324-311-313 revised around Palanga town.

2. Field checking (if carried out)

Date (m/d/y)	Itinerary (main settlements crossed on the working unit)	Problems checked and main conclusions
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3. Border matching with neighbour working units

Working unit /Country	Controlled and corrected by	Date (m/d/y)	Remark
213 (CZ only)	Gedas Vaitkus	08/28/2003	Thematic and geometric integrity verified. Map border topology corrected with ArcEdit 8.3

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
	09/10/2003	Tomas Soukup	Some code errors (typing errors) and invalid (questionable) changes detected
	09/12/2003	Daiva Vaitkuvienė	Coding errors corrected, questionable changes revised
	09/13/2003	Gedas Vaitkus	Seamless database created. Topology, geometry and polygon size verified, errors corrected

2. Verification and acceptance

	Date (m/d/y)	Name	Signature	Remark
National level	09/15/2003	Gedas Vaitkus		
Integration level	09/16/2003	Erika Orlitová	GISAT	Few cases discussed with EEIC
	09/25/2003	Tomas Soukup	GISAT	OK

E: SOFTWARE / HARDWARE

Work phase	Software used	Hardware used
Systematic geometric correction of IMAGE90	ERDAS Imagine 8.6	PC
Systematic geometric correction of CLC90	ArcEdit 8.3	PC
Topological and thematic corrections of CLC90	ArcEdit 8.3	PC
Interpretation of changes	InterChange (ArcView 3.1)	PC
Creation of CLC2000	ArcEdit 8.3	PC
Technical quality control	ArcEdit 8.3	PC
Database integration (border matching)	ArcEdit 8.3	PC