

METADATA LATVIA

Title of working unit:	422
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A: GENERAL INFORMATION

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Contracted:	Latvian Environment Agency
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Phone:	+371-7811492
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Project leader:	Mr. Harijs Baranovs
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1. IMAGE1975 data used

Landsat ETM or other scene(s)				
Satellite & Sensor	Path-	Row	Date (m/d/y)	Remark (e.g. clouds)
Landsat MSS	202	20	05/24/1976	
Landsat MSS	203	20	08/23/1976	

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

Scale	Sheet id	Title/Name	Year of production	Year of last revision	Remark
1:50000	4221	Kēmeri	2000	1995	Digital map
1:50000	4222	Jūrmala	2000	1995	Digital map
1:50000	4223	Engure	2000	1995	Digital map
1:10000	66 sheets			1970-1981	Digital mosaic

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
1	Aerial photos (plans)		1970-1980	1m resolution	Digital aerial photos as mosaic of corresponding 1:10000 topographic map sheets (aerial photos have interpretations remarks made by National Land Service experts)
2	City/town map	Rīga	1996	1:20000	Published by "Jana Seta"
3	City/town map	Jūrmala	1997	1:20000	Published by "Jana Seta"
4	City/town map	Tukums	1994	1:15000	Published by "Jana Seta"
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
Māra Plotniece				08/05/2003	08/12/2003	5

B: DATA PREPARATION**1. Checking and systematic correction of IMAGE90 data (optional)**

Landsat ETM 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 7 TM	187	20	07/27/1994	No systematic error, max. error < 50m			
Landsat 7 TM	188	20	05/15/1994	No systematic error, max. error < 50m			

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				
	Local correction	Irena Fatare	02/10/2003	02/12/2003	
Thematic errors	Logical coherence*	Irena Fatare	02/10/2003	03/07/2003	
	Semantic accuracy** and exhaustiveness***	Irena Fatare	02/10/2003	02/12/2003	

* = compliance with internal rules of CLC (100 m, 25 ha) according to Technical Guidelines 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
03/07/2003	Irena Fatare		

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.)
08/12/2003	Irena Fatare	08/14/2003	

2. Field checking (if carried out)

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

3. Border matching with neighbour working units or countries

working unit /Country	Controlled and corrected by	Date (m/d/y)	Remark
421	Irena Fatare	08/14/2003	
431	Irena Fatare	08/14/2003	

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	08/15/2003	Ilmārs Krampis	
CLC Changes	08/15/2003	Ilmārs Krampis	
CLC90	03/07/2003	Ilmārs Krampis	

2. Verification and acceptance

	Date (m/d/y)	Name	Signature	Remark
National level	08/15/2003	Harijs Baranovs		
Integration level	08/19/2003	Erika Orlitová	GISAT	Few cases discussed with LAE
	08/25/2003	Tomas Soukup	GISAT	OK

E: SOFTWARE / HARDWARE

Work phase	Software used	Hardware used
Systematic geometric correction of IMAGE90		
Systematic geometric correction of CLC90		
Topological and thematic corrections of CLC90	ArcView 8.2	PC Pentium 4, 1.8GHz, RAM 512MB, HDD 40GB, Monitor ViewSonic E70F 17"
Interpretation of changes	ArcView 8.2, ArcInfo 8.2	PC Pentium 4, 1.8GHz, RAM 512MB, HDD 40GB, Monitor ViewSonic E70F 17"
Creation of CLC1975	ArcView 8.2	PC Pentium 4, 1.8GHz, RAM 512MB, HDD 40GB, Monitor ViewSonic E70F 17"
Technical quality control	ArcInfo 8.2	PC Pentium 4, 1.8GHz, RAM 512MB, HDD 40GB, Monitor ViewSonic E70F 17"
Database integration (border matching)	ArcInfo 8.2	PC Pentium 4, 1.8GHz, RAM 512MB, HDD 40GB, Monitor ViewSonic E70F 17"