

## CLC2000 METADATA

<b>Title of working unit:</b>	<b><u>W.U. n°1 Emilia-Romagna</u></b>
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### GENERAL INFORMATION

Contractor	APAT
Address	Via V. Brancati, 48 00144 Roma
Phone	+39 06 5007 2074
Fax	+39 06 5007 2221
Responsible	Valter Sambucini
E-mail	sambucini@apat.it

Contracted	Bagnoli Marco
Address	Via N. Sauro, 60 50019 Sesto Fiorentino (FI)
Phone	+39 3333149836
Fax	+39 0554210676
Project leader	Bagnoli Marco
E-mail	ma.bagnoli@virgilio.it

### IMAGE2000 data used

Landsat ETM or other scene (s)				
Satellite & Sensor	Path	Row	Date (m/d/y)	Remark (e.g.clouds)
Landsat 7 ETM+	192	29	07/06/00	
Landsat 7 ETM+	191	29	08/16/00	
Landsat 7 ETM+	191	30	08/16/00	
Landsat 7 ETM+	193	29	08/01/01	

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

Scale	Sheet id	Title/Name	Year of production	Year of last revision	Remark

### 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	Orthophoto (colour)		??/spring-summer/99-00	1:40.000	
2	ISTAT land use map	Land use map	01/01/90	1:25.000	Only for urban area
3	Land use map	Emilia-Romagna Region Land use map	01/01/97 (aerial photos taken on 1994)	1:25.000	

4	Landsat 5 TM	191029	9/3/92	resolution:30m	
5	Landsat 5 TM	191030	8/16/91	resolution:30m	
6	Landsat 5 TM	192029	8/7/91	resolution:30m	
7	Landsat 5 TM	193029	9/12/90	resolution:30m	

### Photointerpreter (s)

Name	Affiliation	Phone	e-mail	interpretation		
				Start (m/d/y)	End (m/d/y)	No. of working days
Marco Bagnoli		+39 3333149836	ma.bagnoli @virgilio.it	04/01/03	01/26/04	150

## DATA PREPARATION

### Checking and systemic correction of clc90 data

Correction	Type of correction	Checked and corrected by	Date (m/d/y)		Remark
			Start	end	
Geometrical errors	Systematic correction	Stefano Bologna (NTT)	03/24/03	03/28/03	Rubber Sheeting with triangular affine on 1648 GCP
	Local correction	Marco Bagnoli	04/01/03	06/15/03	Not too many, but particularly in hills and mountains (Appennini) areas
Thematic errors	Logical coherence*	Marco Bagnoli	04/01/03	06/15/03	Many polygons (2312 out of 8566) <25ha have to be corrected
	Semantic accuracy ** And exhaustiveness***	Marco Bagnoli	04/01/03	06/15/03	Class 322 had a different meaning, 111 was interpreted in a different way

\*=compliance with internal rules of clc (100m, 25ha) according to Technical Guidelines ad Addendum

\*\*=interpretation according to CLC nomenclature

\*\*\*=details are appropriated

## Verification and acceptance on national level

Date (m/d/y)	Accepted by	Signature	Remark
03/01/2004	CHIRICI		

## INTERPRETATION OF CHANGE AND CREATION OF CLC2000

### 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.)
04/22/03	Stefano Bologna (NTT)	04/22/03	33 poligons < UMC
06/23/03	Stefano Bologna (NTT)	06/23/03	2 poligons with 0 code
02/01/04	Stefano Bologna (NTT)	02/01/04	Questionable change

### Field checking (if carried out)

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

### Border matching with neighbour working units or countries

Working unit/Country	Controlled and corrected by	Date (m/d/y)	Remark
W u 2, 3, 8, 9	Marco Bagnoli	03/14/04	
W u 4	Stefano Bologna (NTT)	03/24/04	

## FINAL TECHNICAL QUALITY CONTROL

### Control of topology, unnecessary boundaries, 25 ha limits, invalid codes and invalid changes

	Date (m/d/y)	Controlled by	Remark
CLC Changes	03/04/04	Stefano Bologna (NTT)	Questionable change
CLC90	03/04/04	Stefano Bologna (NTT)	Poligons < 25 ha, Questionable codes

### Verification and acceptance

	Date (m/d/y)	Name	Signature	Remark
National level	06/01/2004	CHIRICI		
CLC2000 technical team				

## SOFTWARE / HARDWARE

Work phase	Software used	Hardware used
Systematic geometric correction of image90	-	-

Systematic geometric correction of CLC90	Arcgis 8, TN ShArc 3	Pentium 4, 2,4 Ghz, 1 Gb RAM, Windows Xp
Topological and thematic correction of CLC90	ArcView 3.2 + extension "Edit tools 3.6"	Pentium 4, 2,5 Ghz, 1Gb RAM, 2 HD 60 Gb,
Interpretation of changes	ArcView 3.2 + extension "Edit tools 3.6"	Pentium 4, 2,5 Ghz, 1Gb RAM, 2 HD 60 Gb,
Creation of CLC2000	ArcView 3.2 + extension "Edit tools 3.6"	Pentium 4, 2,5 Ghz, 1Gb RAM, 2 HD 60 Gb,
Technical quality control	ArcView 3.2 + extension "Edit tools 3.6" and InterCheck 1.1	Pentium IV 2,4 Ghz, 1 Gb RAM, Windows Xp
Database integration (border matching)	ArcView 3.2 + extension "Edit tools 3.6"	Pentium 4, 2,5 Ghz, 1Gb RAM, 2 HD 60 Gb,

## CLC2000 METADATA

<b>Title of working unit:</b>	<b>W.U. n°2 Piemonte</b>
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### GENERAL INFORMATION

Contractor	APAT
Address	Via V. Brancati, 48 00144 Roma
Phone	+39 06 5007 2074
Fax	+39 06 5007 2221
Responsible	Valter Sambucini
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Contracted	Bertani Remo
Address	Via del Drago d'Oro, 5 – Firenze - Italy
Phone	+39 055 280738
Fax	+39 055 3217842
Project leader	Bertani Remo
E-mail	ale.remo@tin.it

### IMAGE2000 data used

Landsat ETM or other scene (s)				
Satellite & Sensor	Path	Row	Date (m/d/y)	Remark (e.g.clouds)
Landsat 7 ETM+	195	29	07/27/00	Localised high cloud coverage in alpine area
Landsat 7 ETM+	195	29	07/27/00	High cloud coverage in the mountains area
Landsat 7 ETM+	194	28	09/09/01	There is a displacement between this one and 195_29 L7 in mountains area
Landsat 7 ETM+	194	29	07/23/01	
Landsat 7 ETM+	195	28	08/15/01	

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

Scale	Sheet id	Title/Name	Year of production	Year of last revision	Remark

### 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	Orthophoto (colour)		??/spring-summer/99-00	1:40.000	
2	ISTAT land use map	Land use map	01/01/90	1:25.000	Only for urban area
3	Woodland map	IPLA Woodland map	01/01/81	1:100.000	
4	Landsat 5 TM	195029	06/25/91	Resolution 30 m	
5	Landsat 5 TM	194028	08/31/89	Resolution 30 m	

6	Landsat 5 TM	194029	07/04/91	Resolution 30 m	
7	Landsat 5 TM	195028	09/10/90	Resolution 30 m	

### Photointerpreter (s)

Name	Affiliation	Phone	e-mail	interpretation		
				Start (m/d/y)	End (m/d/y)	No. of working days
Bertani Remo		+39 055 280738	ale.remo@tin.it	04/01/03	02/15/04	130

## DATA PREPARATION

### Checking and systemic correction of clc90 data

Correction	Type of correction	Checked and corrected by	Date (m/d/y)		Remark
			Start	end	
Geometrical errors	Systematic correction	-	-	-	-
	Local correction	Bertani Remo	04/01/03	06/15/03	A lot of polygons has been corrected not only in alpine areas but also in hills one
Thematic errors	Logical coherence*	Bertani Remo	04/01/03	06/15/03	Many polygons (2502 out of 12455) <25ha have to be corrected
	Semantic accuracy ** And exhaustiveness***	Bertani Remo	04/01/03	06/15/03	Class 322 had a different meaning, 111 was interpreted in a different way

\*=compliance with internal rules of clc (100m, 25ha) according to Technical Guidelines ad Addendum

\*\*=interpretation according to CLC nomenclature

\*\*\*=details are appropriated

### Verification and acceptance on national level

Date (m/d/y)	Accepted by	Signature	Remark
03/05/2004	CHIRICI		

### INTERPRETATION OF CHANGE AND CREATION OF CLC2000

#### 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.)
04/23/03	Stefano Bologna (NTT)	04/23/03	Geometrical errors
06/30/03	Stefano Bologna (NTT)	06/30/03	18 poligons < UMC and Geometrical errors
02/08/04	Stefano Bologna (NTT)	02/08/04	Questionable change, and Geometrical errors

#### Field checking (if carried out)

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

#### Border matching with neighbour working units or countries

Working unit/Country	Controlled and corrected by	Date (m/d/y)	Remark
W u 1,3,9,11	Marco Bagnoli	03/14/04	

### FINAL TECHNICAL QUALITY CONTROL

#### Control of topology, unnecessary boundaries, 25 ha limits, invalid codes and invalid changes

	Date (m/d/y)	Controlled by	Remark
CLC Changes	03/09/04	Stefano Bologna (NTT)	Questionable change, Poligons < 5 ha
CLC90	03/09/04	Stefano Bologna (NTT)	Poligons < 25 ha, Questionable codes

#### Verification and acceptance

	Date (m/d/y)	Name	Signature	Remark
National level	06/02/2004	CHIRICI		
CLC2000 technical team				

## SOFTWARE / HARDWARE

Work phase	Software used	Hardware used
Systematic geometric correction of image90	-	-
Systematic geometric correction of CLC90	Arcgis 8, TN ShArc 3	Pentium 4, 2,4 Ghz, 1 Gb RAM, Windows Xp
Topological and thematic correction of CLC90	ArcView 3.2 + extension "Edit tools 3.6"	Pentium 3, 500 Mhz, 512 Mb RAM, 1 HD 12 Gb,
Interpretation of changes	ArcView 3.2 + extension "Edit tools 3.6"	Pentium 3, 500 Mhz, 512 Mb RAM, 1 HD 12 Gb,
Creation of CLC2000	ArcView 3.2 + extension "Edit tools 3.6"	Pentium 3, 500 Mhz, 512 Mb RAM, 1 HD 12 Gb,
Technical quality control	ArcView 3.2 + extension "Edit tools 3.6" and InterChek 1.1	Pentium IV 2,4 Ghz, 1 Gb RAM, Windows Xp
Database integration (border matching)	ArcView 3.2 + extension "Edit tools 3.6"	Pentium 3, 500 Mhz, 512 Mb RAM, 1 HD 12 Gb,



## CLC2000 METADATA

<b>Title of working unit:</b>	<b>W.U. n°3 Lombardia</b>
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### GENERAL INFORMATION

Contractor	APAT
Address	Via V. Brancati, 48 00144 Roma
Phone	+39 06 5007 2074
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Responsible	Valter Sambucini
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Contracted	Gian Paolo Cecconi
Address	Via R. Moretti, 47 00123 Roma
Phone	06.30.31.02.74
Fax	06.30.31.02.74
Project leader	Gian Paolo Cecconi
E-mail	gianpaolo.cecconi@tiscali.it

### IMAGE2000 data used

Landsat ETM or other scene (s)				
Satellite & Sensor	Path	Row	Date (m/d/y)	Remark (e.g. clouds)
Landsat 7 ETM+	192	029	11/20/2002	clouds
Landsat 7 ETM+	193	028	11/20/2002	snow
Landsat 7 ETM+	193	029	11/19/2002	

### Topographic maps used (indicate in remare if digital)

Scale	Sheet id	Title/Name	Year of production	Year of last revision	Remark

### Other ancillary data used (thematicdata, satellite images, aerial photos, city maps, vegetation maps)

Id	Data source/type	Title (if relevated)	Date of production (m/d/y)	Scale (spatial detail)	remark
1	aerial photos	Lombardia.ecw	2000	1:10.000	
2	Thematic data	Carta ambientale della pianura	2000	1:25.000	

## Photointerpreter (s)

Name	Affiliation	Phone	e-mail	interpretation		
				Start (m/d/y)	End (m/d/y)	No. of days
Gian Paolo Cecconi		06.30.31.02.74	gianpaolo.cecconi@tiscali.it	03/10/03	06/16/03	56
Iliana Bolanos		06.93.59.00.93	ilianabol@hotmail.com	03/15/03	06/16/03	51
Katia Liberati		06.72.67.29.54	katia_l@hotmail.com	03/15/03	06/16/03	51

## DATA PREPARATION

### Checking and systemic correction of clc90 data

Correction	Type of correction	Checked and corrected by	Date (m/d/y)		Remark
			Start	end	
Geometrical errors	Systematic correction	-	-	-	-
	Local correction	Gian Paolo Cecconi, Iliana Bolanos, Katia Liberati	03/25/03	06/06/03	
Thematic errors	Logical coherence*	Gian Paolo Cecconi, Iliana Bolanos, Katia Liberati	03/31/03	06/16/03	
	Semantic scuracy** and axhaustiveness***	Gian Paolo Cecconi, Iliana Bolanos, Katia Liberati	03/31/03	06/16/03	

\*=compliance with internal rules of clc (100m, 25ha) according to Technical Guidelines ad Addendum

\*\*=interpretation according to CLC nomenclature

\*\*\*=details are appropriate

## Verification and acceptance on national level

Date (m/d/y)	Accepted by	Signature	Remark
03/04/2004	CHIRICI		

## INTERPRETATION OF CHANGE AND CREATION OF CLC2000

### 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.)
30/04/2003	A. Lamonaca (NTT)	30/04/2003	Geometric errors 20 polygons < UMC invalid codes
06/15/2003	A. Lamonaca (NTT)	06/22/2003	Geometric errors and digitalization near Po river. 182 polygons < UMC
06/10/2003	A. Montaghi	11/23/2003	Questionable codes and geometric errors

### Field checking (if carried out)

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

### Border matching with neighbour working units or countries

Working unit/Country	Controlled and corrected by	Date (m/d/y)	Remark
WU 1, 2, 8, 11	Marco Bagnoli	03/14/2004	

## FINAL TECHNICAL QUALITY CONTROL

### Control of topology, unnecessary boundaries, 25 ha limits, invalid codes and invalid changes

	Date (m/d/y)	Controlled by	remark
CLC Changes	03/03/2004	A. Montaghi	Questionable change
CLC90	03/03/2004	A. Montaghi	Polygons < 25 ha, Questionable codes

### Verification and acceptance

	Date (m/d/y)	Name	Signature	Remark
National level	<b>06/05/2004</b>	<b>CHIRICI</b>		
CLC2000 technical team				

## SOFTWARE / HARDWARE

Work phase	Software used	Hardware used
Systematic geometric correction of image90	-	-
Systematic geometric	-	-

<b>correction of CLC90</b>		
<b>Topological and thematic correction of CLC90</b>	<b>TNShare 3.3.2 ArcView 3.2</b>	<b>CPU: Athlon – XP 1800+ Pentium IV</b>
<b>Interpretation of changes</b>	<b>ArcView 3.2</b>	<b>CPU: Athlon – XP 1800+ Pentium IV</b>
<b>Creation of CLC2000</b>	<b>ArcView 3.2</b>	<b>CPU: Athlon – XP 1800+ Pentium IV</b>
<b>Technical quality control</b>	<b>Arc View 3.2 + ext. EditTools 3.6, InterCheck 1.1</b>	<b>Pentium IV 2.4 Gh, RAM 1 Gb, Win2000</b>
<b>Database integration (border matching)</b>	<b>ArcView 3.2, ArcInfo</b>	<b>CPU: Athlon – XP 1800+ Pentium IV</b>

## **CLC2000 METADATA**

<b>Title of working unit:</b>	<b>W.U. n°4 Marche, Puglia</b>
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### **GENERAL INFORMATION**

Contractor	APAT
Address	Via V. Brancati, 48 00144 Roma
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Responsible	Valter Sambucini
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Contracted	Comandini Fulvio
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Phone	0678390042
Fax	067886172
Project leader	Comandini Fulvio
E-mail	fcomandi@agros.it

### IMAGE2000 data used

Landsat ETM or other scene (s)				
Satellite & Sensor	Path	Row	Date (m/d/y)	Remark (e.g.clouds)
Landsat 7 ETM+	190	030	03/28/2002	
Landsat 7 ETM+	191	030	03/26/2002	
Landsat 7 ETM+	188	031	10/29/2002	
Landsat 7 ETM+	188	032	09/24/2002	
Landsat 7 ETM+	187	032	07/10/2003	

### Topographic maps used (indicate in remare if digital)

Scale	Sheet id	Title/Name	Year of production	Year of last revision	Remark

### Other ancillary data used (thematicdata, satellite images, aerial photos, city maps, vegetation maps)

Id	Data source/type	Title (if relevated)	Date of production (m/d/y)	Scale (spatial detail)	remark
1	aerial photos	Marche.ecw	2000	1:10.000	
2	aerial photos	Puglia.ecw	2000	1:10.000	

### Photointerpreter (s)

Name	Affiliation	Phone	e-mail	interpretation		
				Start (m/d/y)	End (m/d/y)	No. of days
Fulvio Comandini		3485254660	fcomandi@agros.it	03/12/03	06/16/03	52
Sofia Mariano		3284743068	s.mariano@tiscali.it	03/15/03	06/16/03	50
Raffaele Sellitto		3482484244	raffaele_sellitto@katamail.com	03/13/03	06/16/03	49

### DATA PREPARATION

#### Checking and systemic correction of clc90 data

Correction	Type of correction	Checked and corrected by	Date (m/d/y)		remark
			Start	end	
Geometrical errors	Systematic correction	-	-	-	-
	Local correction	Fulvio Comandini	03/20/03	06/06/03	
Thematic errors	Logical coherence*	Raffaele Sellitto	03/24/03	06/16/03	
	Semantic accuracy ** and exhaustiveness***	Fulvio Comandini Sofia Mariano	03/24/03	06/16/03	

\*=compliance with internal rules of clc (100m, 25ha) according to Technical Guidelines ad Addendum

\*\*=interpretation according to CLC nomenclature

\*\*\*=details are appropriate

#### Verification and acceptance on national level

Date (m/d/y)	Accepted by	Signature	Remark
06/20/2004	CHIRICI		

### INTERPRETATION OF CHANGE AND CREATION OF CLC2000

#### 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.)
04/30/2003	A. Lamonaca (NTT)	04/30/2003	Geometric errors, 27 polygons < UMC, invalid codes (Marche). Geometric errors, 57

			polygons < UMC, 12 change < UMC, invalid codes (Puglia)
06/15/2003	A. Lamonaca (NTT)	06/23/2003	Geometric errors and questionable codes
10/08/2003	A. Montaghi	11/25/2003	Geometric errors and questionable codes

#### Field checking (if carried out)

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

#### Border matching with neighbour working units or countries

Working unit/Country	Controlled and corrected by	Date (m/d/y)	Remark
WU 5, 7, 12	Franco Monti	03/14/2004	
WU 1, 9, 11	Stefano Bologna (NTT)	03/24/2004	

## FINAL TECHNICAL QUALITY CONTROL

### Control of topology, unnecessary boundaries, 25 ha limits, invalid codes and invalid changes

	Date (m/d/y)	Controlled by	remark
CLC Changes	03/04/2004	A. Montaghi	Questionable change
CLC90	03/04/2004	A. Montaghi	Polygons < 25 ha, Questionable codes

### Verification and acceptance

	Date (m/d/y)	Name	Signature	Remark
National level	<b>07/01/2004</b>	<b>CHIRICI</b>		
CLC2000 technical team				

## SOFTWARE / HARDWARE

Work phase	Software used	Hardware used
Systematic geometric correction of image90	-	-
Systematic geometric correction of CLC90	-	-
Topological and thematic correction of CLC90	<b>TNSharC 3.3.2</b> <b>ArcView 3.2</b>	
Interpretation of changes	<b>ArcView 3.2</b>	
Creation of CLC2000	<b>ArcView 3.2</b>	
Technical quality control	<b>Arc View 3.2 + ext. EditTools</b>	<b>Pentium IV 2.4 Gh, RAM 1</b>

	<b>3.6, InterCheck 1.1</b>	<b>Gb, Win2000</b>
Database integration (border matching)	<b>ArcView 3.2, ArcInfo</b>	



## CLC2000 METADATA

<b>Title of working unit:</b>	<b>W.U. n°5 Lazio, Molise</b>
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### GENERAL INFORMATION

Contractor	APAT
Address	Via V. Brancati, 48 00144 Roma
Phone	+39 06 5007 2074
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Responsible	Valter Sambucini
E-mail	sambucini@apat.it

Contracted	FRANCO MONTI
Address	Via dei Cessati spiriti 12 Roma
Phone	067824527
Fax	067886172
Project leader	
E-mail	fmonti@agros.it

### IMAGE2000 data used

Landsat ETM or other scene (s)				
Satellite & Sensor	Path	Row	Date (m/d/y)	Remark (e.g.clouds)
Landsat 7 ETM+	191	030	03/26/2002	
Landsat 7 ETM+	191	031	09/25/2002	
Landsat 7 ETM+	190	031	07/23/2002	
Landsat 7 ETM+	189	031	07/17/2002	

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

Scale	Sheet id	Title/Name	Year of production	Year of last revision	Remark

### 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	Lazio.ecw	2000	1:10.000	
2	Aerial photos	Molise.ecw	2000	1:10.000	

### Photointerpreter (s)

Name	Affiliation	Phone	e-mail	interpretation

				Start (m/d/y)	End (m/d/y)	No. of days
Franco Monti		067824527	fmont@agros.it	03/10/03	06/12/03	50
Andrea Civenzini				03/10/03	06/12/03	55

## DATA PREPARATION

### Checking and systemic correction of clc90 data

Correction	Type of correction	Checked and corrected by	Date (m/d/y)		remark
			Start	end	
Geometrical errors	Systematic correction	A. Lamonaca (NTT)	03/15/2003	03/20/2003	Systemic correction of Lazio and Molise (algorithm: affine on triangles)
	Local correction	F. Monti-A. Civenzini	03/10/03	05/23/03	
Thematic errors	Logical coherence*	F. Monti-A. Civenzini	03/10/03	05/30/03	
	Semantic scuracy** and axhaustiveness***	F. Monti-A. Civenzini	03/10/03	06/10/03	

\*=compliance with internal rules of clc (100m, 25ha) according to Technical Guidelines ad Addendum

\*\*=interpretation according to CLC nomenclature

\*\*\*=details are appropriate

### Verification and acceptance on national level

Date (m/d/y)	Accepted by	Signature	Remark
03/25/2004	CHIRICI		

## INTERPRETATION OF CHANGE AND CREATION OF CLC2000

### 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.)
04/28/2003	A. Lamonaca (NTT)	04/28/2003	Geometric errors, 36 polygons < UMC, 18 change < UMC, invalid code (Molise). Geometric errors, 88

			polygons < UMC, 8 change < UMC, invalid code (Lazio).
06/15/2003	A. Lamonaca (NTT)	06/24/2003	Geometric errors and digitalization. 1 polygon < UMC and invalid code (Lazio)
10/01/2003	A. Montaghi	10/22/2003	Questionable codes and geometric errors

#### Field checking (if carried out)

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

#### Border matching with neighbour working units or countries

Working unit/Country	Controlled and corrected by	Date (m/d/y)	Remark
Wu 12, 4, 11, 9	BOLOGNA	05/02/2004	

## FINAL TECHNICAL QUALITY CONTROL

### Control of topology, unnecessary boundaries, 25 ha limits, invalid codes and invalid changes

	Date (m/d/y)	Controlled by	remark
CLC Changes	03/01/2004	A. Lamonaca (NTT)	Questionable changes
CLC90	03/01/2004	A. Lamonaca (NTT)	Polygons < 25 ha, Questionable codes

### Verification and acceptance

	Date (m/d/y)	Name	Signature	Remark
National level	<b>06/015/2004</b>	<b>CHIRICI</b>		
CLC2000 technical team				

## SOFTWARE / HARDWARE

Work phase	Software used	Hardware used
Systematic geometric correction of image90	-	-
Systematic geometric correction of CLC90	<b>TN-ShArc 4.0</b>	<b>P4 1700, 512 Mb RAM, Win2000</b>
Topological and thematic correction of CLC90	<b>TNShare 3.3.2 Arc View 3.2</b>	<b>CPU: Athlon-XP 1800 Pentium III 600</b>

Interpretation of changes	<b>Arc View 3.2</b>	<b>CPU: Athlon-XP 1800 Pentium III 600</b>
Creation of CLC2000	<b>Arc View 3.2</b>	<b>CPU: Athlon-XP 1800 Pentium III 600</b>
Technical quality control	<b>Arc View 3.2 + ext. EditTools 3.6, InterCheck 1.1</b>	<b>Pentium IV 2.4 Gh, RAM 1 Gb, Win2000</b>
Database integration (border matching)	<b>Arc View 3.2</b>	<b>CPU: Athlon-XP 1800 Pentium III 600</b>

## CLC2000 METADATA

<b>Title of working unit:</b>	<u>W.U. n°6 Sardegna</u>
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### GENERAL INFORMATION

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Project leader	Morgante Leonardo
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### IMAGE2000 data used

Landsat ETM or other scene (s)				
Satellite & Sensor	Path	Row	Date (m/d/y)	Remark (e.g.clouds)
Landsat 7 ETM+	193	32	06/27/00	
Landsat 7 ETM+	193	33	06/27/00	
Landsat 7 ETM+	192	32	06/20/00	
Landsat 7 ETM+	192	33	07/23/01	
Landsat 7 ETM+	191	31	08/01/01	

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

Scale	Sheet id	Title/Name	Year of production	Year of last revision	Remark

### 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	Orthophoto (colour)		??/spring-summer/99-00	1:40.000	
2	ISTAT land use map	Land use map	01/01/90	1:25.000	Only for urban area
3	Landsat 5 TM	193032	05/12/92	Resolution 30 m	
4	Landsat 5 TM	193033	05/12/92	Resolution 30 m	
5	Landsat 5 TM	192032	04/19/92	Resolution 30 m	
6	Landsat 5 TM	192033	04/19/92	Resolution 30 m	