

Using the combined knowledge bases of the UCGIS [GIS&T Body of Knowledge](#) and the European [EO4GEO Body of Knowledge](#), we identified 521 knowledge, skills, and abilities.

The first four characters in the first column act as keys to the Pre-GISP Exam Blueprint weights.

The last two columns characterize the most appropriate level for teaching the knowledge area. They may be used to create curriculum maps.

AM01-01	Analytical Methods	Analysis of surfaces
AM01-02	Analytical Methods	Analysis of surfaces
AM01-03	Analytical Methods	Analysis of surfaces
AM01-04	Analytical Methods	Analysis of surfaces
AM01-05	Analytical Methods	Analysis of surfaces
AM01-06	Analytical Methods	Analysis of surfaces
AM01-07	Analytical Methods	Analysis of surfaces
AM01-08	Analytical Methods	Analysis of surfaces
AM02-01	Analytical Methods	Basic analytical methods
AM02-02	Analytical Methods	Basic analytical methods
AM02-03	Analytical Methods	Basic analytical methods
AM02-04	Analytical Methods	Basic analytical methods
AM02-05	Analytical Methods	Basic analytical methods
AM02-06	Analytical Methods	Basic analytical methods
AM02-07	Analytical Methods	Basic analytical methods
AM02-08	Analytical Methods	Basic analytical methods
AM02-09	Analytical Methods	Basic analytical methods
AM03-01	Analytical Methods	Basic analytical operations
AM03-02	Analytical Methods	Basic analytical operations
AM03-03	Analytical Methods	Basic analytical operations
AM03-04	Analytical Methods	Basic analytical operations
AM03-05	Analytical Methods	Basic analytical operations
AM03-06	Analytical Methods	Basic analytical operations
AM03-07	Analytical Methods	Basic analytical operations
AM04-01	Analytical Methods	Data mining
AM04-02	Analytical Methods	Data mining
AM04-03	Analytical Methods	Data mining
AM05-01	Analytical Methods	Foundations of analytical methods
AM06-01	Analytical Methods	Generalization and aggregation
AM06-02	Analytical Methods	Generalization and aggregation
AM06-03	Analytical Methods	Generalization and aggregation
AM07-01	Analytical Methods	Geometric measures
AM07-02	Analytical Methods	Geometric measures
AM07-03	Analytical Methods	Geometric measures
AM07-04	Analytical Methods	Geometric measures

AM07-05	Analytical Methods	Geometric measures
AM07-06	Analytical Methods	Geometric measures
AM07-07	Analytical Methods	Geometric measures
AM08-01	Analytical Methods	Geostatistics
AM08-02	Analytical Methods	Geostatistics
AM08-03	Analytical Methods	Geostatistics
AM08-04	Analytical Methods	Geostatistics
AM09-01	Analytical Methods	Network analysis
AM09-02	Analytical Methods	Network analysis
AM09-03	Analytical Methods	Network analysis
AM09-04	Analytical Methods	Network analysis
AM09-05	Analytical Methods	Network analysis
AM09-06	Analytical Methods	Network analysis
AM09-07	Analytical Methods	Network analysis
AM10-01	Analytical Methods	Optimization and location-allocation modeling
AM10-02	Analytical Methods	Optimization and location-allocation modeling
AM10-03	Analytical Methods	Optimization and location-allocation modeling
AM10-04	Analytical Methods	Optimization and location-allocation modeling
AM11-01	Analytical Methods	Query operations and query languages
AM11-02	Analytical Methods	Query operations and query languages
AM11-03	Analytical Methods	Query operations and query languages
AM12-01	Analytical Methods	Representation transformation
AM12-02	Analytical Methods	Representation transformation
AM12-03	Analytical Methods	Representation transformation
AM12-04	Analytical Methods	Representation transformation
AM12-05	Analytical Methods	Representation transformation
AM12-06	Analytical Methods	Representation transformation
AM12-07	Analytical Methods	Representation transformation
AM13-01	Analytical Methods	Spatial regression and econometrics
AM13-02	Analytical Methods	Spatial regression and econometrics
AM13-03	Analytical Methods	Spatial regression and econometrics
AM13-04	Analytical Methods	Spatial regression and econometrics
AM14-01	Analytical Methods	Spatial statistics
AM14-02	Analytical Methods	Spatial statistics
AM14-03	Analytical Methods	Spatial statistics
AM14-04	Analytical Methods	Spatial statistics
AM14-05	Analytical Methods	Spatial statistics
AM14-06	Analytical Methods	Spatial statistics

AM14-07	Analytical Methods	Spatial statistics
AM14-08	Analytical Methods	Spatial statistics
AM15-01	Analytical Methods	Analysis of errors and uncertainty
AM15-02	Analytical Methods	Analysis of errors and uncertainty
AM15-03	Analytical Methods	Analysis of errors and uncertainty
AM15-04	Analytical Methods	Analysis of errors and uncertainty
AM15-05	Analytical Methods	Analysis of errors and uncertainty
AM15-06	Analytical Methods	Analysis of errors and uncertainty
CV01-01	Cartography and Visualization	Data considerations
CV01-02	Cartography and Visualization	Data considerations
CV01-03	Cartography and Visualization	Data considerations
CV02-01	Cartography and Visualization	Design principles
CV02-02	Cartography and Visualization	Design principles
CV02-03	Cartography and Visualization	Design principles
CV02-04	Cartography and Visualization	Design principles
CV02-05	Cartography and Visualization	Design principles
CV02-06	Cartography and Visualization	Design principles
CV02-07	Cartography and Visualization	Design principles
CV02-08	Cartography and Visualization	Design principles
CV02-09	Cartography and Visualization	Design principles
CV02-10	Cartography and Visualization	Design principles
CV02-11	Cartography and Visualization	Design principles
CV02-12	Cartography and Visualization	Design principles
CV02-13	Cartography and Visualization	Design principles
CV02-14	Cartography and Visualization	Design principles
CV02-15	Cartography and Visualization	Design principles
CV03-01	Cartography and Visualization	Graphic representation techniques
CV03-02	Cartography and Visualization	Graphic representation techniques
CV03-03	Cartography and Visualization	Graphic representation techniques
CV03-04	Cartography and Visualization	Graphic representation techniques
CV03-05	Cartography and Visualization	Graphic representation techniques
CV03-06	Cartography and Visualization	Graphic representation techniques
CV03-07	Cartography and Visualization	Graphic representation techniques
CV03-08	Cartography and Visualization	Graphic representation techniques
CV03-09	Cartography and Visualization	Graphic representation techniques
CV03-10	Cartography and Visualization	Graphic representation techniques
CV04-01	Cartography and Visualization	History and trends
CV04-02	Cartography and Visualization	History and trends
CV04-03	Cartography and Visualization	History and trends
CV04-04	Cartography and Visualization	History and trends
CV05-01	Cartography and Visualization	Map production
CV05-02	Cartography and Visualization	Map production
CV05-03	Cartography and Visualization	Map production
CV06-01	Cartography and Visualization	Usability of maps

CV06-02	Cartography and Visualization	Usability of maps
CV06-03	Cartography and Visualization	Usability of maps
CV06-04	Cartography and Visualization	Usability of maps
CV06-05	Cartography and Visualization	Usability of maps
CV06-06	Cartography and Visualization	Usability of maps
CV06-07	Cartography and Visualization	Usability of maps
CV06-08	Cartography and Visualization	Usability of maps
CV07-01	Cartography and Visualization	Map design techniques
CV07-02	Cartography and Visualization	Map design techniques
CV07-03	Cartography and Visualization	Map design techniques
CV07-04	Cartography and Visualization	Map design techniques
CV07-05	Cartography and Visualization	Map design techniques
CV07-06	Cartography and Visualization	Map design techniques
CV07-07	Cartography and Visualization	Map design techniques
CV07-08	Cartography and Visualization	Map design techniques
CV07-09	Cartography and Visualization	Map design techniques
CV07-10	Cartography and Visualization	Map design techniques
CF01-01	Conceptual Foundations	Cognitive and social foundations
CF01-02	Conceptual Foundations	Cognitive and social foundations
CF01-03	Conceptual Foundations	Cognitive and social foundations
CF01-04	Conceptual Foundations	Cognitive and social foundations
CF01-05	Conceptual Foundations	Cognitive and social foundations
CF01-06	Conceptual Foundations	Cognitive and social foundations
CF02-01	Conceptual Foundations	Cognitive, linguistic and social foundations
CF02-02	Conceptual Foundations	Cognitive, linguistic and social foundations
CF02-03	Conceptual Foundations	Cognitive, linguistic and social foundations
CF02-04	Conceptual Foundations	Cognitive, linguistic and social foundations
CF03-01	Conceptual Foundations	Elements of geographic information
CF03-02	Conceptual Foundations	Elements of geographic information
CF03-03	Conceptual Foundations	Elements of geographic information
CF03-04	Conceptual Foundations	Elements of geographic information
CF04-01	Conceptual Foundations	Fundamentals of Geographic Information
CF04-02	Conceptual Foundations	Fundamentals of Geographic Information
CF04-03	Conceptual Foundations	Fundamentals of Geographic Information
CF04-04	Conceptual Foundations	Fundamentals of Geographic Information
CF05-01	Conceptual Foundations	Imperfections in geographic information
CF05-02	Conceptual Foundations	Imperfections in geographic information
CF05-03	Conceptual Foundations	Imperfections in geographic information
CF06-01	Conceptual Foundations	Introduction to GIS&T
CF06-02	Conceptual Foundations	Introduction to GIS&T
CF07-01	Conceptual Foundations	Philosophical foundations
CF07-02	Conceptual Foundations	Philosophical foundations
CF07-03	Conceptual Foundations	Philosophical foundations

CF07-04	Conceptual Foundations	Philosophical foundations
CF07-05	Conceptual Foundations	Philosophical foundations
CF08-01	Conceptual Foundations	Relationships
CF08-02	Conceptual Foundations	Relationships
CF08-03	Conceptual Foundations	Relationships
CF08-04	Conceptual Foundations	Relationships
CF08-05	Conceptual Foundations	Relationships
CF08-06	Conceptual Foundations	Relationships
CF08-07	Conceptual Foundations	Relationships
CF08-08	Conceptual Foundations	Relationships
CF09-01	Conceptual Foundations	Georeferencing systems
CF09-02	Conceptual Foundations	Georeferencing systems
CF09-03	Conceptual Foundations	Georeferencing systems
CF09-04	Conceptual Foundations	Georeferencing systems
CF09-05	Conceptual Foundations	Georeferencing systems
CF09-06	Conceptual Foundations	Georeferencing systems
CF09-07	Conceptual Foundations	Georeferencing systems
DM01-01	Data Modeling, Storage and Exploitation	Foundations for Data Modelling Storage
DM01-02	Data Modeling, Storage and Exploitation	Foundations for Data Modelling Storage
DM01-03	Data Modeling, Storage and Exploitation	Foundations for Data Modelling Storage
DM01-04	Data Modeling, Storage and Exploitation	Foundations for Data Modelling Storage
DM01-05	Data Modeling, Storage and Exploitation	Foundations for Data Modelling Storage
DM01-06	Data Modeling, Storage and Exploitation	Foundations for Data Modelling Storage
DM01-07	Data Modeling, Storage and Exploitation	Foundations for Data Modelling Storage
DM01-08	Data Modeling, Storage and Exploitation	Foundations for Data Modelling Storage
DM01-09	Data Modeling, Storage and Exploitation	Foundations for Data Modelling Storage
DM01-10	Data Modeling, Storage and Exploitation	Foundations for Data Modelling Storage
DM01-11	Data Modeling, Storage and Exploitation	Foundations for Data Modelling Storage
DM01-12	Data Modeling, Storage and Exploitation	Foundations for Data Modelling Storage
DM01-13	Data Modeling, Storage and Exploitation	Foundations for Data Modelling Storage
DM01-14	Data Modeling, Storage and Exploitation	Foundations for Data Modelling Storage
DM01-15	Data Modeling, Storage and Exploitation	Foundations for Data Modelling Storage
DM01-16	Data Modeling, Storage and Exploitation	Foundations for Data Modelling Storage
DM01-17	Data Modeling, Storage and Exploitation	Foundations for Data Modelling Storage
DM02-01	Data Modeling, Storage and Exploitation	Foundations for Data Modelling Exploitation
DM02-02	Data Modeling, Storage and Exploitation	Foundations for Data Modelling Exploitation
DM02-03	Data Modeling, Storage and Exploitation	Foundations for Data Modelling Exploitation
DM03-01	Data Modeling, Storage and Exploitation	Standards for Spatial Data Modeling
DM03-02	Data Modeling, Storage and Exploitation	Standards for Spatial Data Modeling
DM03-03	Data Modeling, Storage and Exploitation	Standards for Spatial Data Modeling
DM03-04	Data Modeling, Storage and Exploitation	Standards for Spatial Data Modeling
DM03-05	Data Modeling, Storage and Exploitation	Standards for Spatial Data Modeling
DM03-06	Data Modeling, Storage and Exploitation	Standards for Spatial Data Modeling
DM03-07	Data Modeling, Storage and Exploitation	Standards for Spatial Data Modeling

DM03-08	Data Modeling, Storage and Exploitation	Standards for Spatial Data Modeling
DM04-01	Data Modeling, Storage and Exploitation	Tessellation data models
DM04-02	Data Modeling, Storage and Exploitation	Tessellation data models
DM04-03	Data Modeling, Storage and Exploitation	Tessellation data models
DM04-04	Data Modeling, Storage and Exploitation	Tessellation data models
DM04-05	Data Modeling, Storage and Exploitation	Tessellation data models
DM04-06	Data Modeling, Storage and Exploitation	Tessellation data models
DM04-07	Data Modeling, Storage and Exploitation	Tessellation data models
DM04-08	Data Modeling, Storage and Exploitation	Tessellation data models
DM04-09	Data Modeling, Storage and Exploitation	Tessellation data models
DM05-01	Data Modeling, Storage and Exploitation	Vector data model, Feature based modelling, Applications
DM05-02	Data Modeling, Storage and Exploitation	Vector data model, Feature based modelling, Applications
DM05-03	Data Modeling, Storage and Exploitation	Vector data model, Feature based modelling, Applications
DM05-04	Data Modeling, Storage and Exploitation	Vector data model, Feature based modelling, Applications
DM05-05	Data Modeling, Storage and Exploitation	Vector data model, Feature based modelling, Applications
DM05-06	Data Modeling, Storage and Exploitation	Vector data model, Feature based modelling, Applications
DM05-07	Data Modeling, Storage and Exploitation	Vector data model, Feature based modelling, Applications
DS01-01	Design and Setup of Geographic Information Systems	Architectural design of a GIS system
DS01-02	Design and Setup of Geographic Information Systems	Architectural design of a GIS system
DS01-03	Design and Setup of Geographic Information Systems	Architectural design of a GIS system
DS01-04	Design and Setup of Geographic Information Systems	Architectural design of a GIS system
DS01-05	Design and Setup of Geographic Information Systems	Architectural design of a GIS system
DS01-06	Design and Setup of Geographic Information Systems	Architectural design of a GIS system
DS01-07	Design and Setup of Geographic Information Systems	Architectural design of a GIS system
DS01-08	Design and Setup of Geographic Information Systems	Architectural design of a GIS system
DS01-09	Design and Setup of Geographic Information Systems	Architectural design of a GIS system
DS02-01	Design and Setup of Geographic Information Systems	Database design
DS02-02	Design and Setup of Geographic Information Systems	Database design

DS02-03	Design and Setup of Geographic Information Systems	Database design
DS02-04	Design and Setup of Geographic Information Systems	Database design
DS03-01	Design and Setup of Geographic Information Systems	Resource planning
DS03-02	Design and Setup of Geographic Information Systems	Resource planning
DS03-03	Design and Setup of Geographic Information Systems	Resource planning
DS03-04	Design and Setup of Geographic Information Systems	Resource planning
DS03-05	Design and Setup of Geographic Information Systems	Resource planning
DS03-06	Design and Setup of Geographic Information Systems	Resource planning
DS04-01	Design and Setup of Geographic Information Systems	System design
DS04-02	Design and Setup of Geographic Information Systems	System design
DS04-03	Design and Setup of Geographic Information Systems	System design
DS04-04	Design and Setup of Geographic Information Systems	System design
DS04-05	Design and Setup of Geographic Information Systems	System design
DS04-06	Design and Setup of Geographic Information Systems	System design
DS05-01	Design and Setup of Geographic Information Systems	Algorithm design
DS05-02	Design and Setup of Geographic Information Systems	Algorithm design
DS05-03	Design and Setup of Geographic Information Systems	Algorithm design
DS05-04	Design and Setup of Geographic Information Systems	Algorithm design
DS05-05	Design and Setup of Geographic Information Systems	Algorithm design
DS05-06	Design and Setup of Geographic Information Systems	Algorithm design
DS06-01	Design and Setup of Geographic Information Systems	Application development
DS06-02	Design and Setup of Geographic Information Systems	Application development
DS06-03	Design and Setup of Geographic Information Systems	Application development
DS06-04	Design and Setup of Geographic Information Systems	Application development

DS06-05	Design and Setup of Geographic Information Systems	Application development
DS07-01	Design and Setup of Geographic Information Systems	Programming languages and libraries
DS07-02	Design and Setup of Geographic Information Systems	Programming languages and libraries
DS07-03	Design and Setup of Geographic Information Systems	Programming languages and libraries
DS07-04	Design and Setup of Geographic Information Systems	Programming languages and libraries
DS07-05	Design and Setup of Geographic Information Systems	Programming languages and libraries
DS07-06	Design and Setup of Geographic Information Systems	Programming languages and libraries
GC01-01	Geocomputation	Artificial intelligence in GIS&T
GC01-02	Geocomputation	Artificial intelligence in GIS&T
GC01-03	Geocomputation	Artificial intelligence in GIS&T
GC01-04	Geocomputation	Artificial intelligence in GIS&T
GC01-05	Geocomputation	Artificial intelligence in GIS&T
GC01-06	Geocomputation	Artificial intelligence in GIS&T
GC01-07	Geocomputation	Artificial intelligence in GIS&T
GC01-08	Geocomputation	Artificial intelligence in GIS&T
GC01-09	Geocomputation	Artificial intelligence in GIS&T
GC01-10	Geocomputation	Artificial intelligence in GIS&T
GC02-01	Geocomputation	Geocomputation and complex systems
GC02-02	Geocomputation	Geocomputation and complex systems
GC02-03	Geocomputation	Geocomputation and complex systems
GC02-04	Geocomputation	Geocomputation and complex systems
GC03-01	Geocomputation	Open Science
GC03-02	Geocomputation	Open Science
GC03-03	Geocomputation	Open Science
GC04-01	Geocomputation	Spatial simulation modelling
GC04-02	Geocomputation	Spatial simulation modelling
GC04-03	Geocomputation	Spatial simulation modelling
GC04-04	Geocomputation	Spatial simulation modelling
GC04-05	Geocomputation	Spatial simulation modelling
GC04-06	Geocomputation	Spatial simulation modelling
GD01-01	Geospatial Data	Data Collection
GD01-02	Geospatial Data	Data Collection
GD01-03	Geospatial Data	Data Collection
GD01-04	Geospatial Data	Data Collection
GD01-05	Geospatial Data	Data Collection
GD01-06	Geospatial Data	Data Collection
GD01-07	Geospatial Data	Data Collection
GD01-08	Geospatial Data	Data Collection

GD01-09	Geospatial Data	Data Collection
GD01-10	Geospatial Data	Data Collection
GD01-11	Geospatial Data	Data Collection
GD02-01	Geospatial Data	Data Quality, Metadata and Data Infrastructure
GD02-02	Geospatial Data	Data Quality, Metadata and Data Infrastructure
GD03-01	Geospatial Data	Geolocating Data to Earth
GD03-02	Geospatial Data	Geolocating Data to Earth
GD03-03	Geospatial Data	Geolocating Data to Earth
GD03-04	Geospatial Data	Geolocating Data to Earth
GD04-01	Geospatial Data	Transaction management of geospatial data
GD04-02	Geospatial Data	Transaction management of geospatial data
GD04-03	Geospatial Data	Transaction management of geospatial data
GD04-04	Geospatial Data	Transaction management of geospatial data
GS01-01	GI and Society	Critical approach
GS01-02	GI and Society	Critical approach
GS01-03	GI and Society	Critical approach
GS01-04	GI and Society	Critical approach
GS01-05	GI and Society	Critical approach
GS01-06	GI and Society	Critical approach
GS02-01	GI and Society	Economic aspects
GS02-02	GI and Society	Economic aspects
GS02-03	GI and Society	Economic aspects
GS04-01	GI and Society	Ethical aspects
GS04-02	GI and Society	Ethical aspects
GS05-01	GI and Society	Geospatial citizenship
GS05-02	GI and Society	Geospatial citizenship
GS05-03	GI and Society	Geospatial citizenship
GS06-01	GI and Society	Legal aspects
GS06-02	GI and Society	Legal aspects
GS06-03	GI and Society	Legal aspects
GS06-04	GI and Society	Legal aspects
GS06-05	GI and Society	Legal aspects
GS06-06	GI and Society	Legal aspects
GS07-01	GI and Society	Use of geospatial information
GS07-02	GI and Society	Use of geospatial information
GS07-03	GI and Society	Use of geospatial information
GS07-04	GI and Society	Use of geospatial information
IP01-01	Image processing and analysis	Data assimilation
IP01-02	Image processing and analysis	Data assimilation
IP01-03	Image processing and analysis	Data assimilation
IP02-01	Image processing and analysis	Image data quality
IP02-02	Image processing and analysis	Image data quality
IP02-03	Image processing and analysis	Image data quality
IP03-01	Image processing and analysis	Image pre-processing
IP03-02	Image processing and analysis	Image pre-processing

IP03-03	Image processing and analysis	Image pre-processing
IP03-04	Image processing and analysis	Image pre-processing
IP03-05	Image processing and analysis	Image pre-processing
IP03-06	Image processing and analysis	Image pre-processing
IP03-07	Image processing and analysis	Image pre-processing
IP04-01	Image processing and analysis	Image processing (value) chain
IP05-01	Image processing and analysis	Image understanding
IP05-02	Image processing and analysis	Image understanding
IP05-03	Image processing and analysis	Image understanding
IP05-04	Image processing and analysis	Image understanding
IP05-05	Image processing and analysis	Image understanding
IP05-06	Image processing and analysis	Image understanding
IP05-07	Image processing and analysis	Image understanding
IP05-08	Image processing and analysis	Image understanding
IP05-09	Image processing and analysis	Image understanding
IP05-10	Image processing and analysis	Image understanding
IP05-11	Image processing and analysis	Image understanding
IP05-12	Image processing and analysis	Image understanding
IP06-01	Image processing and analysis	Infrastructure
IP06-02	Image processing and analysis	Infrastructure
IP06-03	Image processing and analysis	Infrastructure
OI01-01	Organizational and Institutional Aspects	Geospatial data sharing
OI01-02	Organizational and Institutional Aspects	Geospatial data sharing
OI01-03	Organizational and Institutional Aspects	Geospatial data sharing
OI01-04	Organizational and Institutional Aspects	Geospatial data sharing
OI02-01	Organizational and Institutional Aspects	GIS and T workforce themes
OI02-02	Organizational and Institutional Aspects	GIS and T workforce themes
OI02-03	Organizational and Institutional Aspects	GIS and T workforce themes
OI02-04	Organizational and Institutional Aspects	GIS and T workforce themes
OI02-05	Organizational and Institutional Aspects	GIS and T workforce themes
OI03-01	Organizational and Institutional Aspects	Organizational structures, procedures and management
OI03-02	Organizational and Institutional Aspects	Organizational structures, procedures and management
OI03-03	Organizational and Institutional Aspects	Organizational structures, procedures and management
OI03-04	Organizational and Institutional Aspects	Organizational structures, procedures and management
OI03-05	Organizational and Institutional Aspects	Organizational structures, procedures and management
OI03-06	Organizational and Institutional Aspects	Organizational structures, procedures and management
OI03-07	Organizational and Institutional Aspects	Organizational structures, procedures and management
OI03-08	Organizational and Institutional Aspects	Organizational structures, procedures and management
OI03-09	Organizational and Institutional Aspects	Organizational structures, procedures and management
OI03-10	Organizational and Institutional Aspects	Organizational structures, procedures and management
OI03-11	Organizational and Institutional Aspects	Organizational structures, procedures and management
OI03-12	Organizational and Institutional Aspects	Organizational structures, procedures and management
OI04-01	Organizational and Institutional Aspects	Organizations in the GIS and T domain
OI04-02	Organizational and Institutional Aspects	Organizations in the GIS and T domain
OI04-03	Organizational and Institutional Aspects	Organizations in the GIS and T domain

OI04-04	Organizational and Institutional Aspects	Organizations in the GIS and T domain
OI05-01	Organizational and Institutional Aspects	Spatial Data Infrastructures
OI05-02	Organizational and Institutional Aspects	Spatial Data Infrastructures
OI05-03	Organizational and Institutional Aspects	Spatial Data Infrastructures
OI05-04	Organizational and Institutional Aspects	Spatial Data Infrastructures
OI05-05	Organizational and Institutional Aspects	Spatial Data Infrastructures
OI05-06	Organizational and Institutional Aspects	Spatial Data Infrastructures
OI05-07	Organizational and Institutional Aspects	Spatial Data Infrastructures
PP01-01	Physical principles	Basics of microwave remote sensing
PP01-02	Physical principles	Basics of microwave remote sensing
PP01-03	Physical principles	Basics of microwave remote sensing
PP01-04	Physical principles	Basics of microwave remote sensing
PP01-05	Physical principles	Basics of microwave remote sensing
PP01-06	Physical principles	Basics of microwave remote sensing
PP02-01	Physical principles	Basics of Optical Remote Sensing
PP02-02	Physical principles	Basics of Optical Remote Sensing
PP02-03	Physical principles	Basics of Optical Remote Sensing
PP02-04	Physical principles	Basics of Optical Remote Sensing
PP02-05	Physical principles	Basics of Optical Remote Sensing
PP02-06	Physical principles	Basics of Optical Remote Sensing
PP02-07	Physical principles	Basics of Optical Remote Sensing
PP02-08	Physical principles	Basics of Optical Remote Sensing
PS01-01	Platforms, sensors and digital imagery	Databases of satellite and airborne sensors and mission
PS01-02	Platforms, sensors and digital imagery	Remote sensing data and imagery
PS01-03	Platforms, sensors and digital imagery	Remote sensing data and imagery
PS01-04	Platforms, sensors and digital imagery	Remote sensing data and imagery
PS01-05	Platforms, sensors and digital imagery	Remote sensing data and imagery
PS01-06	Platforms, sensors and digital imagery	Remote sensing data and imagery
PS01-07	Platforms, sensors and digital imagery	Remote sensing data and imagery
PS01-08	Platforms, sensors and digital imagery	Remote sensing data and imagery
PS02-01	Platforms, sensors and digital imagery	Types of remote sensing platforms and systems
PS02-02	Platforms, sensors and digital imagery	Types of remote sensing platforms and systems
PS02-03	Platforms, sensors and digital imagery	Types of remote sensing platforms and systems
PS02-04	Platforms, sensors and digital imagery	Types of remote sensing platforms and systems
PS02-05	Platforms, sensors and digital imagery	Types of remote sensing platforms and systems
PS02-06	Platforms, sensors and digital imagery	Types of remote sensing platforms and systems
PS03-01	Platforms, sensors and digital imagery	Types of remote sensing sensors
PS03-02	Platforms, sensors and digital imagery	Types of remote sensing sensors
PS03-03	Platforms, sensors and digital imagery	Types of remote sensing sensors
PS03-04	Platforms, sensors and digital imagery	Types of remote sensing sensors
PS03-05	Platforms, sensors and digital imagery	Types of remote sensing sensors
PS03-06	Platforms, sensors and digital imagery	Types of remote sensing sensors
PS03-07	Platforms, sensors and digital imagery	Types of remote sensing sensors
PS03-08	Platforms, sensors and digital imagery	Types of remote sensing sensors
PS03-09	Platforms, sensors and digital imagery	Types of remote sensing sensors



TA04-17	Thematic and application domains	User community of GI services and applications
TA04-18	Thematic and application domains	User community of GI services and applications
TA04-19	Thematic and application domains	User community of GI services and applications
TA04-20	Thematic and application domains	User community of GI services and applications
TA04-21	Thematic and application domains	User community of GI services and applications
TA04-22	Thematic and application domains	User community of GI services and applications
TA04-23	Thematic and application domains	User community of GI services and applications
TA04-24	Thematic and application domains	User community of GI services and applications
TA04-25	Thematic and application domains	User community of GI services and applications
TA04-26	Thematic and application domains	User community of GI services and applications
TA04-27	Thematic and application domains	User community of GI services and applications
TA04-28	Thematic and application domains	User community of GI services and applications
TA04-29	Thematic and application domains	User community of GI services and applications
TA04-30	Thematic and application domains	User community of GI services and applications
TA04-31	Thematic and application domains	User community of GI services and applications
TA04-32	Thematic and application domains	User community of GI services and applications
TA04-33	Thematic and application domains	User community of GI services and applications
TA04-34	Thematic and application domains	User community of GI services and applications
TA04-35	Thematic and application domains	User community of GI services and applications
WB01-01	Web-based GI	Application development via Data Integration
WB01-02	Web-based GI	Application development via Data Integration
WB01-03	Web-based GI	Application development via Data Integration
WB01-04	Web-based GI	Application development via Web services composition
WB01-05	Web-based GI	Application development via Web services composition
WB01-06	Web-based GI	Application development via Web services composition
WB01-07	Web-based GI	Application development via Web services composition
WB02-01	Web-based GI	Resource Definition
WB02-02	Web-based GI	Resource Definition
WB02-03	Web-based GI	Resource Definition
WB03-01	Web-based GI	Resource Discovery
WB03-02	Web-based GI	Resource Discovery
WB03-03	Web-based GI	Resource Discovery
WB04-01	Web-based GI	Resource Publishing
WB04-02	Web-based GI	Resource Publishing
WB04-03	Web-based GI	Resource Publishing
WB04-04	Web-based GI	Resource Publishing
WB04-05	Web-based GI	Resource Publishing
WB04-06	Web-based GI	Resource Publishing
WB05-01	Web-based GI	Web Application development elements
WB05-02	Web-based GI	Web Application development elements
WB05-03	Web-based GI	Web Application development elements
WB05-04	Web-based GI	Web Application development elements
WB05-05	Web-based GI	Web Application development elements
WB06-01	Web-based GI	Web services
WB06-02	Web-based GI	Web services

WB06-03 Web-based GI  
WB06-04 Web-based GI

Web services  
Web services