

WORLD METEOROLOGICAL ORGANIZATION

COMMISSION FOR BASIC SYSTEMS

**CBS TASK TEAM ON THE REVISION OF THE MANUAL ON THE
GLOBAL DATA-PROCESSING AND FORECASTING SYSTEM
(GDPFS)**

GENEVA, SWITZERLAND, 17 – 19 DECEMBER 2013



FINAL REPORT



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EXECUTIVE SUMMARY

The meeting of the CBS Task Team on the Revision of the Manual on the Global Data-processing and Forecasting System (GDPFS) was held in Geneva, Switzerland, from 17 to 19 December 2013.

The meeting reviewed the draft new text for the revised Manual, which is available on the WMO website at:

http://www.wmo.int/pages/prog/www/DPFS/Meetings/TT-MANUAL_Geneva2013/documents/Revised-Manual-Dec2013.zip

A summary of the changes to the current version of the Manual is provided in Annex III.

Following the recommendation by CBS-15 (Jakarta, September 2012), the meeting develop a transition plan for the implementation of the new Manual (which will replace the current version), to manage the technical changes and the initial designation of the GDPFS centres as defined in the new Manual, including WMCs and RSMCs, for consideration by the next session of CBS. A roadmap for the introduction of the new *Manual on the GDPFS* is given in Annex IV.

GENERAL SUMMARY OF THE WORK OF THE SESSION

1. OPENING OF THE SESSION

1.1 The meeting of the CBS Task Team on the Revision of the Manual on the Global Data-processing and Forecasting System (GDPFS) was held in Geneva, Switzerland, from 17 to 19 December 2013, at 0930 hours on Tuesday, 17 December 2013, at the WMO Headquarters, in Geneva, Switzerland. Mr Strauss welcomed participants to the meeting, and invited Ms Haleh Kootval, the Chief of the Public Weather Services Division, to address the meeting, on behalf of Dr Xu Tang, the Director of the Weather and Disaster Risk Reduction Services Department.

1.2 Ms Haleh Kootval welcomed participants to the meeting, to Geneva in general and to the WMO in particular. Ms Kootval noted that the Global Data-Processing and Forecasting System (GDPFS), is now being expanded beyond the World Weather Watch (WWW) to encompass all systems operated by WMO Members (including those coordinated by other international organizations), and enables all WMO Members to make use of the advances in NWP by providing a framework for the sharing of data and products. She recalled that the *Manual on the GDPFS* (WMO-No. 485) is the single source of technical regulations for all operational data-processing and forecasting systems of WMO Members, including their designated meteorological centres. In particular, the *Manual on the GDPFS* describes the functioning of the GDPFS including the rules and regulations for WMO Members.

1.3 Ms Kootval noted that there has been much development and evolution in the GDPFS since 1992, which is when the current edition of the Manual was adopted. While many amendments to the Manual have been adopted by Members over the years, the Manual needed to be reviewed in its entirety, and updated. Ms Kootval also noted that following the request by the Commission for Basic Systems (CBS), at its fourteenth session (CBS-14, 2009), remarkable progress has been made with the revision of the Manual on the GDPFS, including the development of an outline for a new Manual, which was adopted by the sixteenth World Meteorological Congress (Cg-16, May 2011) in Resolution 6. CBS, at its fifteenth session (CBS-15, September 2012) noted that the new Manual introduces a number of changes to the current procedures, and therefore requested the OPAG on DPFS and the Secretariat to clearly indicate the comprehensive summary of changes of functions and procedures well in advance to ensure the smooth transition, and also recommended that a transition plan for the implementation of the new Manual (which will replace the current version most likely in 2015) be developed to manage the technical changes and the initial designation of the GDPFS centres as defined in the new Manual, including WMCs and RSMCs, for consideration by the next session of CBS.

1.4 Ms Kootval expressed gratitude to the meeting participants for their contributions to the work of the CBS Task Team on the Revision of the Manual on the GDPFS, which would continue to assist WMO to provide even better assistance to its Members in facing the challenges of improving forecasting and warning services. She concluded by wishing everyone a successful meeting and an enjoyable stay in Geneva.

2. ORGANIZATION OF THE MEETING

2.1 Adoption of the agenda

2.1.1 The meeting adopted the provisional agenda without change, as provided in Annex I to this report.

2.2 Working arrangements

2.2.1 All working documents submitted for the meeting are referenced and hyperlinked in the Documentation Plan (INF. 1), which had been posted on the WMO web site at:

http://www.wmo.int/pages/prog/www/DPFS/Meetings/TT-MANUAL_Geneva2013/DocPlan_002.html

2.2.2 The meeting agreed its hours of work and other practical arrangements for the meeting. Participants briefly introduced themselves, to facilitate interactions throughout the meeting. The list of participants in the meeting is provided in Annex II to this report.

3. INTRODUCTION, INCLUDING THE OUTCOMES OF CBS-15 (2012) RELATED TO THE MANUAL ON THE GDPFS, AND STATUS OF THE REVISION OF THE MANUAL

3.1 The meeting recalled that the sixteenth session of the World Meteorological Congress (Cg-16, May 2011) adopted the revised outline for the *Manual on the GDPFS* (WMO-No. 485), and that significant progress has been made since then with the comprehensive revision of the *Manual*. The meeting also recalled that the fifteenth session of the Commission for Basic Systems (CBS-15) noted that the new Manual introduces a number of changes to the current procedures, and that the new Manual would most likely be in force by 2015. CBS-15 therefore requested the Secretariat to clearly indicate the comprehensive summary of changes of functions and procedures well in advance to ensure the smooth transition, and recommended that a transition plan for the implementation of the new Manual (which will replace the current version) be developed to manage the technical changes and the initial designation of the GDPFS centres as defined in the new Manual, including WMCs and RSMCs, for consideration by the next session of CBS. The meeting agreed to address these issues under agenda item 4 and 5, respectively.

4. REVIEW DRAFT TEXT FOR THE NEW MANUAL ON THE GDPFS

4.1 The meeting reviewed draft new text for the revised Manual, which is available on the WMO website at:

http://www.wmo.int/pages/prog/www/DPFS/Meetings/TT-MANUAL_Geneva2013/documents/Revised-Manual-Dec2013.zip

4.2 A summary of the changes to the current version of the Manual is provided in Annex III.

5. DEVELOPMENT OF THE TRANSITION PLAN FOR THE IMPLEMENTATION OF THE NEW MANUAL

5.1 Following the recommendation by CBS-15, the meeting develop a transition plan for the implementation of the new Manual (which will replace the current version), to manage the technical changes and the initial designation of the GDPFS centres as defined in the new Manual, including WMCs and RSMCs, for consideration by the next session of CBS. A roadmap for the introduction of the new *Manual on the GDPFS* is given in Annex IV.

6. ANY OTHER BUSINESS (AOB)

6.1 There were no other issues raised during the meeting.

7. CLOSURE OF THE MEETING

7.1 The meeting of the CBS Task Team on the Revision of the Manual on the Global Data-processing and Forecasting System (GDPFS) closed at 15:10 hours on Thursday, 19 December 2013.

AGENDA

- 1. OPENING OF THE MEETING**
- 2. ORGANIZATION OF THE MEETING**
 - 2.1 Adoption of the agenda
 - 2.2 Working arrangements
- 3. INTRODUCTION, INCLUDING THE OUTCOMES OF CBS-15 (2012) RELATED TO THE MANUAL ON THE GDPFS, AND STATUS OF THE REVISION OF THE MANUAL**
- 4. REVIEW DRAFT TEXT FOR THE NEW MANUAL ON THE GDPFS**
- 5. DEVELOPMENT OF THE TRANSITION PLAN FOR THE IMPLEMENTATION OF THE NEW MANUAL**
- 6. ANY OTHER BUSINESS (AOB)**
- 7. CLOSURE OF THE MEETING**

Annex II

LIST OF PARTICIPANTS

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Annex III**SUMMARY OF THE CHANGES TO THE CURRENT MANUAL**

The new Manual is changed from the current version of the Manual in several overall respects:

- The overall structure is revised as discussed below. This simplifies the structure as the old Manual had evolved over many updates.
- The *Manual* is designed so that it can be modified as frequently as necessary to keep it up-to-date. While Part I should be rather stable and seldom require updating, it is expected that the evolution of science, technique, and user requirements, will continue to induce developments requiring frequent changes to Part II and III.
- Volume 2 is discontinued – see below.
- A full list of the sections from the current version of the manual which have been included and excluded is provided in the Table at the end of this Annex.

Structure

The description of the Functions of the GDPFS is replaced with a “framework for the sharing of data related to operational meteorology, hydrology and climatology”. This is more focused on activities, outputs and benefits compared to the old Manual which was more focused on general functions.

The new Manual is organized under a new structure of three Parts as follows:

- Part I, Outline of the WMO GDPFS, presents the overall purpose of the GDPFS, its organization and the general characteristics of the various activities to be performed. It makes a distinction between general purpose activities and specialized activities: general purpose activities are those which encompass essential data processing required for a wide range of end-usage, e.g. global NWP or seasonal and climate numerical prediction, while specialized activities are those for which data processing is tailored for a specific type of application or user community, e.g. marine, environmental emergency, etc.
- Part II, Specification of GDPFS activities, gives detailed information on the various activities: mandatory functions including production, verification and documentation, and additional recommended functions and products. It also specifies overall requirements applicable to all types of activities, regarding dissemination, verification, training etc.
- Part III, GDPFS implementation, presents the status of implementation of the GDPFS from the user’s point of view: table of performed activities with indication of the participating centres, as well as from the producer’s point of view: table of GDPFS centres with indication of the performed activities.

Quality Management

The functions and activities of a WMC are unchanged. The new Manual takes into account the evolving structure of the GDPFS, including the rapid growth in capabilities of GDPFS Centres over recent years, and facilitates the designation of additional centres.

The new Manual introduces principles of Quality Management as requested by CBS-14:

“6.3.55 The Commission noted that Volume I of the Manual on the GDPFS does not provide guidelines for reviewing the status of RSMCs with activity specialization. However, RSMCs with activity specialization in Atmospheric Transport Modelling and Global Producing Centres for Long range Forecasts have established procedures for monitoring, and providing information on, ongoing compliance. The Commission requested the OPAG on DPFS to consider generalization of these principles to RSMCs with other types of activity specialization.”

In line with quality management requirements, the bodies in charge of managing the information contained in the *Manual* are explicitly specified for every type of GDPFS activity. This is done in Part II.2, through Tables labelled “Responsibility” (cf. example hereafter), where:

- the three lines under “Changes to activity specification” indicate the team(s) and bodies in charge of preparing specification updates, approving them, and deciding to update the *Manual* accordingly;
- the two lines under “Centres designation” indicate the bodies responsible for approving the designation of a GDPFS centre for the activity under consideration and for deciding accordingly;
- the two lines under “Compliance” indicate the team(s) and bodies in charge of ensuring that the designated GDPFS centres remain compliant with the activity specification.

RESPONSIBILITY			
CHANGES TO ACTIVITY SPECIFICATION			
To be proposed by:	CBS/ET-OFPS		
To be approved by:	CBS		
To be decided by:	EC / Congress		
CENTRES DESIGNATION			
To be approved by:	CBS		
To be decided by:	EC / Congress		
COMPLIANCE			
To be monitored by:	CBS/ET-OFPS		
To be reported to:	CBS/ICT-DPFS	CBS	

Designation of Centres

The new Manual introduces clear definitions of the functions of WMCs and of several types of RSMCs, and describes a process for regular compliance assessment of RSMC and WMC status.

RSMC definition: insert the words “and/or”: Regional and/or Specialized Meteorological Centre. This is inserted to cover the roles of centres which provide global coverage (eg. Global NWP, Global EPS, Global Ocean forecasting and Global Climate prediction) but which are not designated as WMCs.

The term RSMC is used as a general term for a designated centre. There have always been a number of different types of RSMC, but the list is expanded to include several more types of specialization. A number of types of centre with other names including RCC (Regional Climate Centre), GPC (Global Producing Centre for Long-Range Forecasts), VAAC (Volcanic Ash Advisory Centre) and LC (Lead Centre) are also types of RSMC. Such centres may be referred to using both the specific names (RCC, GPC, VAAC, LC) and/or the general term RSMC.

Definitions of RSMCs:

- RSMC with geographical specialization is discontinued. Replaced with several new RSMC designations with appropriate required activities and compliance assessment processes:
 - RSMC for Severe Weather Forecasting (SWFDP-like)
 - RSMC for Limited Area NWP
 - RSMC for Global NWP
 - RSMC for Global EPS
 - RSMC for Limited Area EPS

The definition of a geographical Region (for example, the area of responsibility of an RSMC performing limited area modelling) is not specified in a general way in the Manual, so the decision is

made on a case-by-case basis and depends on the context and requirements for regional support. Information on the areas covered by specific centres is provided in Part III of the Manual.

The concept of RSMC for Regional Severe Weather Forecasting originates from the model of the SWFDP Regional Centre. The SWFDP provides a framework for the development of a Regional Centre providing severe weather support to NMHSs in a region. In the final phase of the SWFDP the project transitions from demonstration phase to sustainable operations, and at this stage the regional centre could be designated as RSMC for Regional Severe Weather Forecasting. Outside of established SWFDP projects, a Centre which has consistently demonstrated, over a sustained period, all the required capabilities for Regional Severe Weather Forecasting in collaboration with associated NMCs may be designated as an RSMC with the specialization of Regional Severe Weather Forecasting.

The new Manual requires members of WMO to support an NMC and defines the minimum functions of an NMC.

Scope

The new Manual extends the scope of the GDPFS beyond the WWW (World Weather Watch) to encompass other real-time activities as requested by EC-65:

“The Council reinforced that, similarly to the WIGOS and WIS, the GDPFS is an all-encompassing system, including data-processing and forecasting systems coordinated by CBS, jointly with other technical commissions and/or WMO Programmes, as well as with other international organizations. It agreed that the GDPFS is the basis for the operational production of accurate, reliable and timely weather, climate, water and related environmental forecasts and products, and would therefore satisfy, in a cost-effective and sustainable manner, the evolving data-processing and forecasting requirements of WMO Members. Noting that the evolution of the GDPFS goes beyond the data-processing and forecasting systems of the WWW, the Council requested the Secretary-General to develop an amendment for consideration by EC-66 to reflect these aspects in the WMO Technical Regulations (WMO-No. 49).”

The additional activities are:

- Numerical ocean wave (in collaboration with JCOMM)
- Storm surge prediction (in collaboration with JCOMM)
- Numerical ocean prediction (in collaboration with JCOMM)
- Volcanic ash advisory services for aviation (in collaboration with CAeM and ICAO)
- Response to marine environmental emergencies (in collaboration with JCOMM)
- Activities related to Hydrology and Agriculture (in collaboration with CHy and CAgM respectively)
- Activities related to polar regions (on request from EC-PORS)
- Provision of meteorological assistance to humanitarian Agencies

Volume 2

Volume 2 of the current version of the Manual, which covered Regional Aspects, is discontinued and the relevant sections are incorporated in the new Manual, following the request by Cg-16:

“Resolution 6 (Cg-16): REVISED MANUAL ON THE GLOBAL DATA-PROCESSING AND FORECASTING SYSTEM (WMO-No. 485) THE CONGRESS, (...)

Decides further:

That Volume II of the Manual (Regional Aspects), which has no regulatory status for Members, should be reviewed and the relevant parts, including the Regional Climate Centre (RCC) network composition, as well as a list of products and the possibility of

designating one or more Regional Specialized Meteorological Centres (RSMCs) for polar regions, should be incorporated into the revised Manual. ”

REVIEW OF THE EXISTING CONTENT OF THE MANUAL ON THE GDPFS

Volume / Part / Section / Paragraph	Not kept	Kept	Reviewed/changed	Comments
Introduction			X	Changed following the new outline of the Manual
Volume I – GLOBAL ASPECTS				
Part I – ORGANIZATION AND FUNCTIONS OF THE GDPFS				
1. Purpose of the Global Data-processing and Forecasting System (GDPFS)			X	Changed following the new outline of the Manual
2. Functions of the GDPFS			X	Reviewed and redistributed within the new structure of the Manual
3. Organization of the GDPFS	X (1 st para)	X (2 nd para)		To remove: “The GDPFS shall be organized...”. To keep: “The GDPFS shall also support...”
4. Functions of GDPFS centres			X	To remove sections: 4.1.1, 4.1.2.1, 4.1.2.3, 4.1.2.4, 4.1.2.5, 4.1.2.6, and 4.1.3.1. RSMC with Geographical Specialization will become simply an RSMC – the geographical aspect will arise through the products and guidance delivered (e.g. RSMC Pretoria in the SWFDP) To include the following in “Section 4.1.2 RSMC:” “RSMCs will carry out activities from one or more of the following lists: 4.1.2.1 General Purpose Activities” (This covers the operational NWP as described in the proposed new outline) Section “4.1.2.2 Centres with activity specialization” – the list should be synchronized with the list included in the proposed new outline Section “4.1.3 NMCs” – this should be retained and reviewed. It needs to include mention of connection to the GTS/WIS
Appendix I-1 Location of WMCs and RSMCs with geographical specialization and RSMCs with activity specialization	X			To be replaced by part 3 of the proposed new structure of the Manual
Appendix I-2 Procedures for broadening the functions of existing RSMCs and for designation of new RSMCs	X			To be replaced by part 2, section 3 of the proposed new structure of the Manual. To add the possibility of creating a new centres.
Appendix I-3 Regional and global arrangements for the provision of transport			X	To be reviewed and redistributed within the proposed new structure of the Manual. To merge Appendices I-3 and I-6.

Volume / Part / Section / Paragraph	Not kept	Kept	Reviewed/changed	Comments
model products for environmental emergency response				To keep only mandatory aspects; guidance aspects should be in the Guide on ERA (available at: http://www.wmo.int/pages/prog/www/DPFSERA/td778.html)
Appendix I-4 Definitions of meteorological forecasting ranges			X	
Appendix I-5 Arrangements for the provision of meteorological assistance to United Nations humanitarian missions			X	To be reviewed based on the input from the CBS Task Team on the Provision of Meteorological Assistance to Humanitarian Agencies
Appendix I-6 Regional and global arrangements for atmospheric backtracking			X	To be reviewed and redistributed within the proposed new structure of the Manual. To merge Appendices I-3 and I-6. To keep only mandatory aspects; guidance aspects should be in the Guide on ERA (available at: http://www.wmo.int/pages/prog/www/DPFSERA/td778.html)
Attachment I.1 Guidelines to review the status of RSMCs with geographical specialization	X			
Attachment I.2 Procedures for the elaboration of observational data requirements	X			This is defined in the Manual on GOS (WMO No 544) Part II, Requirements for Observational Data, which describes the Rolling Review of Requirements process.
Part II – DATA-PROCESSING AND FORECASTING ASPECTS				
1. Functions of WMCs, RSMCs and NMCs			X	
1.1 GDPFS products and services			X	To replace with tables of minimum products
1.1.1 Real-time products and services for middle latitudes and subtropical areas			X	To replace with the list of minimum products
1.1.2 Real-time products and services for tropical areas			X	To review
1.1.3 Non-real-time products and services			X	
1.2 Functions of Members responsible for GDPFS centres			X	
1.2.1 Interpretation at NMCs			X	
1.2.2 Accessibility of products	X			To refer to the Manual on WIS
1.2.3 Data management	X			To refer to the Manual on WIS
1.3 WMC responsibilities	X			
1.3.1 Output products	X			
1.3.2 Use of products	X			

Volume / Part / Section / Paragraph	Not kept	Kept	Reviewed/changed	Comments
1.4 RSMC responsibilities			X	To modify in light of the proposed new RSMC structure
1.4.1 Output products			X	
1.4.2 Binary/character conversion capabilities for transmission			X	
1.4.3 Constraints for adjacent centres			X	
1.5 Members' responsibilities		X		
1.5.1 NMC functions			X	
1.5.2 Checking of collected information	X			Definitions to be sent to METEOTERM. Rest of the text to the Manual on WIS
1.5.3 The functions of an NMC should also include the following non-real-time activities			X	To modify in light of the new structure of the Manual
2. Quality control of observational data and their reception at GDPFS centres in real- and non-real time	X			To refer to the WIGOS standards or the Manual on GOS. Need to check that there is also mention of the error bar around the measurement as this is important for quantifying the uncertainty within the NWP analysis. This information could be included in a Guide, but it is not relevant for a Manual
2.1 Quality control of observational data	X			
2.1.1 Definitions	X			
2.1.2 Responsibility for real-time quality control	X			
2.1.3 Minimum standards	X			
2.2 Requirements for observational data	X			
2.3 Times of receipt of observational data	X			
3. Analysis and forecasting practices	X			This information could be included in a Guide, but it is not relevant for a Manual
3.1 Reference surfaces for upper-air analysis	X			
3.2 Preparation of upper-air charts	X			
3.3 Short-range weather forecasting	X			
4. Practices for pictorial representation of information on meteorological charts and diagrams	X			This information may be in the Manual on Codes. Anyway, this information should not be included in the Manual, but it could be in a Guide
4.1 Scales and projections of meteorological charts	X			
4.2 Symbols used on meteorological charts	X			
4.3 Construction of aerological diagrams	X			

Volume / Part / Section / Paragraph	Not kept	Kept	Reviewed/changed	Comments
4.4 Preparation of charts and diagrams for facsimile transmission	X			
4.4.1 Preparation of charts	X			
4.4.2 Standardization of maps for facsimile transmission	X			
4.4.3 Colours and features	X			
4.4.4 Legend	X			
4.4.5 Plotted data	X			
4.4.6 Analysed data	X			
5. Exchange of products between centres	X			To refer to Manual on WIS
5.1 Times of availability of products	X			
5.2 Programmes of output products	X			
5.3 Transmission priorities for GDPFS products	X			
5.3.1 Transmission priorities for global model products from WMCs and RSMCs	X			
5.3.2 Transmission priorities for regional model products from RSMCs	X			
5.3.3 Transmission priorities after transmission outages on the MTN and its branches	X			
5.3.4 Transmission priorities for global model products from WMCs and RSMCs after outages	X			
5.3.5 Transmission priorities for regional model products from RSMCs after outages	X			
5.3.6 Priority of observational data over processed data	X			
5.3.7 Transmission of products in binary, alphanumeric and pictorial form	X			
5.3.8 Plan for monitoring the operation of the World Weather Watch	X			
5.3.9 Procedures and formats for the exchange of monitoring results	X			

Volume / Part / Section / Paragraph	Not kept	Kept	Reviewed/changed	Comments
5.3.10 Standards in the provision of international services by Regional Specialized Meteorological Centres (RSMCs) for atmospheric transport modelling in radiological environmental emergency response	X			
5.3.11 Standards in the provision of international services by Regional Specialized Meteorological Centres (RSMCs) for atmospheric transport modelling in backtracking	X			
5.4 Responsibilities of Members for providing information on their real-time data-processing activities	X			
Appendix II-1 Minimum standards for quality control of data for use in the GDPFS (both real-time and non-real-time)			X	To refer to WIGOS documentation (specific sections); introduced or referred to a Lead Centre
Appendix II-2 Observational data requirements for GDPFS centres for global and regional exchange	X			This is included in the RRR process, including the SoG which is a gap analysis
Appendix II-3 Times of receipt of observational data	X			This is obsolete – it is included in the Manual on WIS (GISCs specifications)
Appendix II-4 Graphical representation of data, analyses and forecasts		X		
Appendix II-5 Times of availability of products with high operational priority	X			Obsolete. This should be in the Manual on WIS
Appendix II-6 Overall list of output products required for international exchange from GDPFS centres			X	To be reviewed and redistributed within the proposed new structure of the Manual.
Appendix II-7 Users' interpretation guide for atmospheric transport model products provided by RSMCs		X		To keep up-to-date (ongoing review)
Appendix II-8 Designated Global Producing Centres for Long-range Forecasts and designation criteria		X		To be redistributed within the proposed new structure of the Manual.
Appendix II-9 Products provided by		X		To be redistributed within the proposed new structure of the

Volume / Part / Section / Paragraph	Not kept	Kept	Reviewed/changed	Comments
RSMCS with activity specialization in atmospheric transport modelling (backtracking for CTBT verification support)				Manual.
Attachment II.1 List of global model output products whose preparation should be given highest priority by WMCs and RSMCs	X			
Attachment II.2 List of regional model output products whose preparation should be given highest priority by RSMCs	X			
Attachment II.3 Transmission priorities for global model products from WMCs and RSMCs	X			
Attachment II.4 Transmission priorities for regional model products from RSMCs	X			
Attachment II.5 Transmission priorities after outages	X			
Attachment II.6 Minimum product list for transmission in binary, alphanumerical and pictorial form	X			
Attachment II.7 Plan for monitoring the operation of the World Weather Watch			X	To refer to WIGOS and WIS as appropriate. To review it within the proposed new structure of the Manual
Attachment II.8 Standardized verification system (SVS) for long-range forecasts (LRF)	X			To associate it with the Lead Centre SVS LRF
Attachment II.9 Procedures and formats for the exchange of monitoring results			X	To associate it with the Lead Centre
Part III – DATA MANAGEMENT ASPECTS				
1. Storage of data	X			To refer to the Manual on WIS
2. Collection, archiving and retrieval of data in the GDPFS	X			
2.1 Data to be stored for non-real-time uses	X			
2.2 National arrangements for storage of	X			

Volume / Part / Section / Paragraph	Not kept	Kept	Reviewed/changed	Comments
climatological data				
2.3 Collection of data to be stored	X			
3. Non-real-time quality control	X			
3.1 Quality control of data to be stored	X			
4. Classification and cataloguing of stored data	X			
4.1 Catalogue of stored data	X			
5. Media and formats for the exchange of stored data	X			
5.1 Media for exchange	X			
5.2 Formats	X			
5.3 Responsibilities of Members for the exchange of non-real-time data	X			
Attachment III.1 Data to be stored at WMCs	X			
Attachment III.2 Data to be stored at RSMCs	X			
Attachment III.3 Minimum standards for non-real-time quality control	X			
Attachment III.4 Guidelines for storage and retrieval of satellite data	X			
Volume II – REGIONAL ASPECTS				
Region I (Africa)	X			Relevant parts to be included in the new Manual. A separate Volume to be discontinued
Region II (Asia)	X			
Region III (South America)	X			
Region IV (North and Central America)	X			
Region V (South-West Pacific)	X			
Region VI (Europe)	X			
The Antarctic	X			

ROADMAP FOR THE INTRODUCTION OF THE NEW *MANUAL ON THE GDPFS*

Near-final version of the new *Manual on the GDPFS* by January 2014

- Distribute to ETs and relevant TCs (CAeM, JCOMM, CCI, ...) for comments and any proposed updates – deadline end Feb 2014
 - WIGOS/WIS to review relevant parts by end February 2014
- Additional contributions from CHy, CAgM and other Technical Commissions by end March 2014
- Final editing by Ken Mylne, Yuki Honda, Peter Kreft and WMO Secretariat by end April 2014
 - Post on web for comments – announce to ET chairs
- Translation to 4 languages for CBS-Ext(14) (by beginning of May) (including docs on key changes and transitional arrangements)

Consolidated text (4 languages) provided to Members around 45 days ahead of CBS (mid July 2014)

- Document detailing the key changes from the current version of the Manual
 - Recall request from CBS (CBS-14 para 6.3.54) to OPAG(DPFS) to review the area of responsibility of RSMCs with Regional Specialization
 - Notes replacement of RSMC with regional specialization with one or more of:
 - RSMC for Regional Severe Weather Forecasting (SWFDP-like)
 - RSMC for Limited Area NWP
 - RSMC for Global NWP
 - RSMC for Global EPS
 - RSMC for Limited Area EPS
- Document on transitional arrangements
 - Transition Period: Cg-17(2015) to Cg-18(2019)
 - Existing WMCs and RSMCs will retain their status until Cg-18 (2019).
 - To retain status after Cg-18, they need to demonstrate compliance by Cg-18.
 - Regular compliance assessment as described in the revised Manual starts after Cg-17
 - New centres will be recognized as formal WMCs or RSMCs (before Cg-18) as soon as they reach the compliance which is reviewed by CBS and receive the approval from EC.
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CBS Ext-14 (9-12 September 2014) – presentation by Ken Mylne and WMO Secretariat – for endorsement

- May need side meeting to make changes in session

Letter to all existing Centres to request them to confirm the mapping of their activities onto the new designations

- Recall request from CBS (CBS-14 para 6.3.54) to OPAG(DPFS) to review the area of responsibility of RSMCs with Regional Specialization
- Provide guidance for RSMCs with Regional Specialization for transition to new designations – reference to CBS final draft

Milestone Cg-17 (2015) – for approval

- Letter to PRs and RAs inviting nominations for new DPFS centres
- Approval of Centres as appropriate by EC
- Assessment of compliance of centres with new Manual by CBS session before Cg-18

End Congress-18 (2019)