# Report on Centre Identification Process

## Background

The ET-CAC took over the role of the ET-GDDP in auditing the candidate WIS Centres. There was a lot of pressure to complete some of the audit, in particular for GISCs before the next EC.

The WMO organized a web base collaborative project management tool (Trello) that greatly helped the team in organizing and tracking the progress of the audits.

## Status

Of the fifteen GICS identified in the WIS Centre Data Base, ten have been successfully audited by ET-GDDP/TT-CAC and endorsed by CBS. Two GISCs have been successfully audited by ET-GDDP/TT-CAC but await CBS approval and three GISCs are still to be audited.

If the 122 DCPCs in the WIS centres Database, fifty-four DCPCs have been successfully reviewed by ET-GDDP/TT-CAC and endorsed by CBS. Eleven DCPCs have submitted to TT-CAC but have still to be certified by TT-CAC. Four DCPCs have been certified by TT-CAC but have not yet been endorsed by CBS

Fifty-one DCPCs have still to submit to TT-CAC

The table below shows the current status of the Audit. The table excludes those DCPCs internal to NMHS also operating a GISC that will be reporting to the TT-CAC on the compliance of internal DCPCs separately to their own GISC certification process:

| **Name** | **Status** | **Date** | **Auditor(s)** |
| --- | --- | --- | --- |
| GISC Melbourne | Done | June 2012 | Matteo Dell’Acqua and Lothar Wolf |
| GISC Moscow | Done | Mars 2013 | Lothar Wolf & Sunghoi Huh |
| GISC Washington | Done | April 2013 | Kevin Adler & Sunghoi Huh |
| GISC Brasilia | Done | April 2013 | Lothar Wolf & Kevin Adler |
| GISC Jeddah | Done | May 2013 | Lothar Wolf & Kevin Adler |
| GISC Tehran | Finalizing | May 2013 | Li Xiang & Markus Heene |
| GISC New Delhi | In progress |  | Lothar Wolf & Markus Heene |
| GISC Pretoria | Planned |  | Kevin Adler & Weiqing Qu |
| GISC Casablanca | Planned |  | Kevin Adler & Sunghoi Huh |
| DCPC RCC Serbia | Done | ? | ? |
| DCPC RTH Norrkoping | Done | ? | ? |
| DCPC RTH Rome | Done | May 2013 | Kevin Adler |
| DCPC RSMC Canada | In progress |  | Weiqing Qu |
| DCPC BAS Cambridge | In progress |  | ? |
| DCPC MEDARE Spain | In progress |  | Kevin Adler |
| DCPC RTH Tashkent | To do |  |  |
| DCPC COMET USA | To do |  |  |
| DCPC NCAR | To do |  |  |
| DCPC GAWSIS Switzerland | To do |  |  |
| DCPC Baltrad Sweden | To do |  |  |
| DCPC RSMC Dakar | To do |  |  |
| DCPC Aviation Centre Dakar | To do |  |  |
| DCPC RTH Dakar | To do |  |  |
| DCPC IODE Ocean Data Portal | To do |  |  |
| DCPC NILU Norway | To do |  |  |
| DCPC AGRHYMET Niamey | To do |  |  |
| DCPC RTH Niamey | To do |  |  |
| DCPC RTH Wellington | To do |  |  |
| DCPC Satellite Centre De Bilt | To do |  |  |
| DCPC RCC De Bilt | To do |  |  |
| DCPC RTH Nairobi | To do |  |  |
| DCPC RSMC Nairobi | To do |  |  |
| DCPC GDACs & JRC | To do |  |  |

The auditors provided an impressive amount of efforts to audit most of the GISCs and some DCPCs. There are many other sites to be audited, and this will be discussed by the ET-CAC when establishing its future work

## Lessons learnt

The lessons learnt during the auditing period are:

* The rate of auditing was hardly sustainable. This is mainly due to the fact that candidates set themselves deadlines linked to the WMO calendar. This needs to be addressed and will have to be discussed by the ET-CAC when establishing its future work.
* In general, candidates did not know what to expect from the audit. A standard letter was drafted (see Annex)
* Some of candidates did not have the level of readiness the expected by the auditors, which generated a lot of extra work for the latter. This is mainly due to the previous point.
* Several candidates were “endorsed with qualifications”. We do not have a formal procedure to check if the candidates are going to implement the auditors’ recommendations.

# Annex : Letter for audit preparation

Dear colleagues,

please find described below the points that will be addressed during the audit, in line with the WIS requirements applicable for GISCs:

1. Management Commitments
2. Infrastructure
3. Operations
4. Human resources
5. Documentation and procedure management
6. User support
7. Monitoring
8. WIS technical compliance (Test Cases, this will include ad-hoc testing of some - from the auditors selected - functionality)
9. Site visit

Furthermore there will be some interviews to management, engineers and also WIS operators.

You will need to allow two full days for those points to be captured.

You will need to provide evidence on compliance and fulfilment of all WIS requirements that are applicable to GISCs. (They can be found on WMO website on WIS (service specification)). This means essentially to reiterate through the WIS centre questionnaire and the answers that you had provided there and to provide real-life evidence on each of those points.

As you can note from above points a-i the technical functionality and compliance is mostly validated remotely before the audit in much the way a GISC user would experience. Therefore the assessment of the technical implementation is only a minor part of the onsite audit and not the main focus.

The evidence to be provided on technical elements can be ad-hoc demonstrations and written technical documentation and test reports. A test certificate is not considered to be sufficient as evidence.

The same applies regarding the necessity of providing evidence of commitment relating to the organisational requirements (e.g.: area of responsibility, call desk, staffing, training, etc.).

The third part is about the technical infrastructure...again evidence is to be provided that this meets the GISC requirements which can be done during the site visit.

It is acknowledge GISC candidate is only expected to have reached pre-operational status during the audit but there needs to be clear evidence that fully operational status will be reached very soon thereafter.

Will you please draft an agenda for the two audit days, based on the information above. When doing so, please consider that during the audit the auditors will need some time to discuss confidentially between themselves to prepare the report. This could be accommodated for instance 1.5 hours after lunch of the first day.

The auditors will give you a full audit debrief at the end of the second day including the provisional audit result. For this debrief please allow 1.5 hours in the agenda.

Finally, the meeting room for the audit needs to provide internet access as the auditors will need to access remotely your GISC portal but also other GISC portals from their machines.

Best regards,

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Center** | **Type** | **Organization** | **Ctry** | **Primary**  **GISC** | **Secondary**  **GISC** | **Congress** | **Region** |
| AGRHYMET | DCPC | Direction de la Météorologie Nationale | NER | Casablanca |  |  | 1 |
| Arctic Data Centre | DCPC | Finnish Meteorological Institute | FIN | WE-VGISC Offenbach |  | 01/06/2011 | 6 |
| IPS | DCPC | Ionospheric Prediction Service  Prediction Service | AUS | Melbourne |  | 01/06/2011 | 5 |
| NCC | DCPC | National Climate Centre | AUS | Melbourne |  | 01/06/2011 | 5 |
| RSMC-Geographical (Darwin) | DCPC | Buerau of Meteorology | AUS | Melbourne |  | 01/06/2011 | 5 |
| GDC (Solar Radiation) (St. Petersburg) | DCPC | Russian Federal Service for Hydrometeorology and Environmental Monitoring | RUS | Moscow |  | 01/06/2011 | 6 |
| GOSIC | DCPC | National Oceanic and Atmospheric Administration | USA | Washington |  | 01/06/2011 | 4 |
| JATWC | DCPC | Joint Australian Tsunami   Warning Centre | AUS | Melbourne |  | 01/06/2011 | 5 |
| RTH | DCPC | Bureau of Meteorology | AUS | Melbourne |  | 01/06/2011 | 5 |
| RTH | DCPC | Instituto Nacional de Meteorologia | BRA | Brasilia |  | 01/06/2011 | 3 |
| RSMC-Activity-ATM | DCPC | Meteorological Service of Canada | CAN | Washington |  | 01/06/2011 | 4 |
| RTH | DCPC | China Meteorological Administration | CHN | Beijing |  | 01/06/2011 | 2 |
| NSMC | DCPC | China Meteorological Administration | CHN | Beijing |  | 01/06/2011 | 2 |
| RCC (Beijing NCC, - RA II) | DCPC | China Meteorological Administration | CHN | Beijing |  | 01/06/2011 | 2 |
| RSMC-Geographical (NMC) | DCPC | China Meteorological Administration | CHN | Beijing |  | 01/06/2011 | 2 |
| RSMC-Activity-ATM (NMC) | DCPC | China Meteorological Administration | CHN | Beijing |  | 01/06/2011 | 2 |
| NCAR | DCPC | National Center for Atmospheric Research | USA | Washington |  | 01/06/2011 | 4 |
| RTH | DCPC | Czech Hydrometeorological Institute | CZE | WE-VGISC Offenbach |  | 01/06/2011 | 6 |
| RMSC-Geographical / NESDIS | DCPC | National Oceanic and Atmospheric Administration | USA | Washington |  | 01/06/2011 | 4 |
| NGDC | DCPC | National Oceanic and Atmospheric Administration | USA | Washington |  | 01/06/2011 | 4 |
| NODC | DCPC | National Oceanic and Atmospheric Administration | USA | Washington |  | 01/06/2011 | 4 |
| GCC | DCPC | Deutscher Wetterdienst | DEU | WE-VGISC Offenbach |  | 01/06/2011 | 6 |
| GPCC | DCPC | Deutscher Wetterdienst | DEU | WE-VGISC Offenbach |  | 01/06/2011 | 6 |
| Aviation Centre | DCPC | Direction de la Météorologie Nationale | SEN | Casablanca |  |  | 1 |
| GRDC | DCPC | Bundesanstalt für Gewässerkunde (BFG) | DEU | WE-VGISC Offenbach |  | 01/06/2011 | 6 |
| GRUAN-LC | DCPC | Deutscher Wetterdienst | DEU | WE-VGISC Offenbach |  | 01/06/2011 | 6 |
| RCC (AE De Bilt, Lead RA VI on Climate Data) | DCPC | Royal Netherlands Meteorological Institute | NLD | WE-VGISC Exeter |  | 01/06/2011 | 6 |
| RCC (Moscow, Lead RA II, Lead RA VI LRF) | DCPC | Russian Federal Service for Hydrometeorology and Environmental Monitoring | RUS | Moscow |  | 01/06/2011 | 6 |
| RCC (Offenbach, Lead RA VI ) | DCPC | Deutscher Wetterdienst | DEU | WE-VGISC Offenbach |  | 01/06/2011 | 6 |
| RDMEC (Drought) | DCPC | Presidency of Meteorology and Environment | SAU | Jeddah |  |  | 2 |
| RSMC-Geographical | DCPC | Deutscher Wetterdienst | DEU | WE-VGISC Offenbach |  | 01/06/2011 | 6 |
| RIC | DCPC | Kenya Meteorological Department | KEN | WE-VGISC Offenbach |  |  | 1 |
| RNODC and GDC (Obninsk) | DCPC | Russian Federal Service for Hydrometeorology and Environmental Monitoring | RUS | Moscow |  | 01/06/2011 | 6 |
| WDCC | DCPC | Deutsches Klimarechenzentrum DKRZ | DEU | WE-VGISC Offenbach |  | 01/06/2011 | 6 |
| WDC-RSAT | DCPC | German Aerospace Center (DLR) | DEU | WE-VGISC Offenbach |  | 01/06/2011 | 6 |
| WRMC | DCPC | Alfred Wegener Institute | DEU | WE-VGISC Offenbach |  | 01/06/2011 | 6 |
| RSMC-Geographical | DCPC | Kenya Meteorological Department | KEN | WE-VGISC Offenbach |  |  | 1 |
| RSMC-Geographical | DCPC | New Zealand National Meteorological Service | NZL | Melbourne |  |  | 5 |
| RSMC-Geographical | DCPC | Direction de la Météorologie Nationale | SEN | Casablanca |  |  | 1 |
| RTH | DCPC | Deutscher Wetterdienst | DEU | WE-VGISC Offenbach |  | 01/06/2011 | 6 |
| RSMC-Medium-Range-Forecasting (ECMWF) | DCPC | European Centre for Medium Range Forecasting (ECMWF) | ECM | WE-VGISC?? |  | 01/06/2011 | 6 |
| MEDARE | DCPC | Centre for Climate Change, University Rovira i Virgili | ESP | WE-VGISC Toulouse | WE-VGISC Exeter |  | 6 |
| Satellite Centre (EUMETSAT) | DCPC | EUMETSAT | EUM | WE-VGISC Offenbach |  | 01/06/2011 | 6 |
| GPC/LRF | DCPC | Météo-France | FRA | WE-VGISC Toulouse |  | 01/06/2011 | 6 |
| RSMC-Activity-ATM | DCPC | National Oceanic and Atmospheric Administration | USA | Washington |  | 01/06/2011 | 4 |
| RSMC-Activity-ATM (Obninsk) | DCPC | Russian Federal Service for Hydrometeorology and Environmental Monitoring | RUS | Moscow |  | 01/06/2011 | 6 |
| RSMC-Geographical (Jeddah) | DCPC | Presidency of Meteorology and Environment | SAU | Jeddah |  |  | 2 |
| RSMC-Geographical (Moscow) | DCPC | Russian Federal Service for Hydrometeorology and Environmental Monitoring | RUS | Moscow |  | 01/06/2011 | 6 |
| RCC (Toulouse, Lead RA VI on LRF) | DCPC | Météo-France | FRA | WE-VGISC Toulouse |  | 01/06/2011 | 6 |
| GPC/LC-LRFMME | DCPC | National Oceanic and Atmospheric Administration | USA | Washington |  | 01/06/2011 | 4 |
| Regional NWP support | DCPC | Météo-France | FRA | WE-VGISC Toulouse |  | 01/06/2011 | 6 |
| RSMC-Activity-TC (Honolulu) | DCPC | National Oceanic and Atmospheric Administration | USA | Washington |  |  | 5 |
| RSMC-Activity-ATM | DCPC | Météo-France | FRA | WE-VGISC Toulouse |  | 01/06/2011 | 6 |
| RSMC-Activity-TC (Miami) | DCPC | National Oceanic and Atmospheric Administration | USA | Washington |  |  | 4 |
| RTH | DCPC | National Institute of Meteorology and Hydrology | BGR | WE-VGISC Offenbach |  | 01/06/2011 | 6 |
| RTH | DCPC | The Egyptian Meteorological Authority | EGY | Casablanca |  |  | 1 |
| RTH | DCPC | Kenya Meteorological Department | KEN | WE-VGISC Offenbach |  |  | 1 |
| RTH | DCPC | New Zealand National Meteorological Service | NZL | Melbourne |  |  | 5 |
| RTH | DCPC | Direction de la Météorologie Nationale | SEN | Casablanca |  |  | 1 |
| RSMC-Activity-TC (La Reunion) | DCPC | Météo-France (La Réunion) | FRA | Casablanca |  | 01/06/2011 | 1 |
| RTH | DCPC | Thai Meteorological Department | THA | Tokyo |  |  | 2 |
| RTH | DCPC | Uzhydromet | UZB | Seoul |  |  | 2 |
| RTH | DCPC | Direction de la Météorologie Nationale | NER | Casablanca |  |  | 1 |
| RTH / RSMC-Geographical | DCPC | Office National de la Météorologie | DZA | Casablanca |  |  | 1 |
| RTH/RSMC-Geographical (Khabarovsk) | DCPC | Russian Federal Service for Hydrometeorology and Environmental Monitoring | RUS | Moscow |  | 01/06/2011 | 2 |
| RTH/RSMC-Geographical (Novosibirsk) | DCPC | Russian Federal Service for Hydrometeorology and Environmental Monitoring | RUS | Moscow |  | 01/06/2011 | 2 |
| VAAC | DCPC | Météo-France | FRA | WE-VGISC Toulouse |  | 01/06/2011 | 6 |
| RTH | DCPC | Météo-France | FRA | WE-VGISC Toulouse |  | 01/06/2011 | 6 |
| Satellite Centre | DCPC | Royal Netherlands Meteorological Institute | NLD | WE-VGISC Exeter |  | 01/06/2011 | 6 |
| Marine Observations Centre | DCPC | Met Office | GBR | WE-VGISC Exeter |  | 01/06/2011 | 6 |
| Specialised Ocean/Wave Centre | DCPC | Met Office | GBR | WE-VGISC Exeter |  | 01/06/2011 | 6 |
| WAFC | DCPC | National Oceanic and Atmospheric Administration | USA | Washington |  | 01/06/2011 | 4 |
| RSMC-Geographical | DCPC | Met Office | GBR | WE-VGISC Exeter |  | 01/06/2011 | 6 |
| RSMC-Activity-ATM | DCPC | Met Office | GBR | WE-VGISC Exeter |  | 01/06/2011 | 6 |
| WDC (ICE) (St. Petersburg) | DCPC | Russian Federal Service for Hydrometeorology and Environmental Monitoring | RUS | Moscow |  | 01/06/2011 | 6 |
| GPC/LRF | DCPC | Met Office | GBR | WE-VGISC Exeter |  | 01/06/2011 | 6 |
| RTH | DCPC | Met Office | GBR | WE-VGISC Exeter |  | 01/06/2011 | 6 |
| WAFC | DCPC | Met Office | GBR | WE-VGISC Exeter |  | 01/06/2011 | 6 |
| VAAC | DCPC | Met Office | GBR | WE-VGISC Exeter |  | 01/06/2011 | 6 |
| Regional Ozone Centre | DCPC | The Egyptian Meteorological Authority | EGY | Casablanca |  |  | 1 |
| RIC | DCPC | The Egyptian Meteorological Authority | EGY | Casablanca |  |  | 1 |
| RRC | DCPC | The Egyptian Meteorological Authority | EGY | Casablanca |  |  | 1 |
| RSMC-Geographical | DCPC | The Egyptian Meteorological Authority | EGY | Casablanca |  |  | 1 |
| RTC | DCPC | The Egyptian Meteorological Authority | EGY | Casablanca |  |  | 1 |
| RSMC-Activity-TC | DCPC | Fiji Meteorological Service | FJI | Melbourne |  |  | 5 |
| RTH | DCPC | Servicio Meteorológico Nacional | ARG | Brasilia |  |  | 3 |
| RSMC-Geographical | DCPC | Servicio Meteorológico Nacional | ARG | Brasilia |  |  | 3 |
| VAAC | DCPC | Servicio Meteorológico Nacional | ARG | Brasilia |  |  | 3 |
| RIC | DCPC | Servicio Meteorológico Nacional | ARG | Brasilia |  |  | 3 |
| Regional Ozone Centre | DCPC | Servicio Meteorológico Nacional | ARG | Brasilia |  |  | 3 |
| WWIS | DCPC | Hong Kong Observatory | HKG | Beijing | Tokyo | 01/06/2011 | 2 |
| Marine Meteorological Centre | DCPC | Meteorological and Hydrological Service | HRV | WE-VGISC Offenbach |  | 01/06/2011 | 6 |
| RSMC-Marine Meteorology | DCPC | Servizio Meteorologico | ITA | WE-VGISC Offenbach |  | 01/06/2011 | 6 |
| RTH | DCPC | Servizio Meteorologico | ITA | WE-VGISC Offenbach |  | 01/06/2011 | 6 |
| NILU | DCPC | Norwegian Meteorological Institute | NOR | WE-VGISC Offenbach |  | 01/06/2011 | 6 |
| Radar Data Centre (ODC) | DCPC | Météo-France | FRA | WE-VGISC Toulouse |  |  | 6 |
| GPC/LRF | DCPC | Japan Meteorological Agency | JPN | Tokyo |  | 01/06/2011 | 2 |
| RSMC-Geographical | DCPC | Japan Meteorological Agency | JPN | Tokyo |  | 01/06/2011 | 2 |
| RSMC-Activity-ATM | DCPC | Japan Meteorological Agency | JPN | Tokyo |  | 01/06/2011 | 2 |
| RSMC-Activity-TC | DCPC | Japan Meteorological Agency | JPN | Tokyo |  | 01/06/2011 | 2 |
| Satellite Centre | DCPC | Japan Meteorological Agency | JPN | Tokyo |  | 01/06/2011 | 2 |
| RTH | DCPC | India Meteorological Department | IND | New Delhi |  | 01/06/2011 | 2 |
| RTH | DCPC | Islamic Republic of Iran Meteorological Organization | IRN | Tehran |  | 01/06/2011 | 2 |
| RCC (Tokyo NCC, RA II) | DCPC | Japan Meteorological Agency | JPN | Tokyo |  | 01/06/2011 | 2 |
| WDC-GHG | DCPC | Japan Meteorological Agency | JPN | Tokyo |  | 01/06/2011 | 2 |
| RTH | DCPC | Presidency of Meteorology and Environment | SAU | Jeddah |  | 01/06/2011 | 2 |
| RTH | DCPC | South African Weather Service | ZAF | Pretoria |  | 01/06/2011 | 1 |
| RTH | DCPC | Japan Meteorological Agency | JPN | Tokyo |  | 01/06/2011 | 2 |
| RSMC-Activity-TC | DCPC | India Meteorological Department | IND | New Delhi |  | 01/06/2011 | 2 |
| NMSC | DCPC | Korea Meteorological Administration | KOR | Seoul |  | 01/06/2011 | 2 |
| GPC / LC-LRFMME | DCPC | Korea Meteorological Administration | KOR | Seoul |  | 01/06/2011 | 2 |
| WAMIS | DCPC | Korea Meteorological Administration | KOR | Seoul |  | 01/06/2011 | 2 |
| RTH (Moscow) | DCPC | Russian Federal Service for Hydrometeorology and Environmental Monitoring | RUS | Moscow |  | 01/06/2011 | 6 |
| RCC (Belgrade, RA VI Network Member) | DCPC | Republic Hydrometeorological Service of Serbia | SRB | WE-VGISC Offenbach |  | 01/06/2011 | 6 |
| Nordic Radar | DCPC | Norwegian Meteorological Arctic Data Centre | SWE | WE-VGISC Offenbach |  | 01/06/2011 | 6 |
| RTH | DCPC | Swedish Meteorological and Hydrological Institute | SWE | WE-VGISC Offenbach |  | 01/06/2011 | 6 |
| RTH | DCPC | National Oceanic and Atmospheric Administration | USA | Washington |  | 01/06/2011 | 4 |
| GCOS Lead Centre for Antarctica (BAS) | DCPC | Met Office | GBR | WE-VGISC Exeter |  |  | 6 |
| COMET | DCPC | UCAR - University Corporation for Atmospheric Research | USA | Washington |  |  | 4 |
| Marine Meteorological Centre (MMC) | DCPC | Qatar Meteorology Department | QAT | Jeddah | Tokyo |  | 2 |
| RCC | DCPC | Direction de la Météorologie Nationale | ACM | Casablanca |  |  | 1 |
| RTH | DCPC | Central Institute for Meteorology and Geodynamics | AUT | WE-VGISC Offenbach |  |  | 6 |