

# SC-MMO Expert Team on Competencies and Capacity Development (ET-CCD 4)

Update to EC-Capacity Development Panel  
15 August 2022

This update is provided to share progress on outputs from priority areas for the ET-CCD workplan.

The expected deliverables of the ET-CCD are as follows:

1. Ice Forecasting Competency Framework
2. Global Marine Forecasting Competency Assessment Program
3. A marine forecasting resource collection
4. Progress on the Marine Services Course
5. WMO/IMO collaboration on weather training for mariners

## **Ice Forecasters competency framework**

Lead authors from outside ET-CCD, Mr. Keld Quistgaard(Denmark) and Mr.Scott Weese(Canada) drafted a new ice forecasting competency framework, based on initial work begun in 2019. The ET-CCD consulted on the development. The draft framework has been reviewed by the Expert Team and additional outside experts, including the International Ice Charting Working Group. The title was changed from "Sea Ice Forecasters" to more explicitly include not only sea ice as the target, but also bergy waters, interior lakes and rivers and their interactions with the land.The framework also merges the originally separate draft sea ice analyst and forecaster frameworks. Training and assessment content guidelines are provided in the newly revised publication WMO-No. [574](#),Sea Ice Information and Services, to assist in the implementation of the framework.

## **Global competency assessment programme**

This task is led by Task Team members, Dr. Renganaden Virasami, the Vice Chair of ET-CCD and Mr. Misaeli Funaki, the Secretariat. Mr. Funaki and Dr. Virasami reviewed the successful aviation competency assessment program website and WMO-No. 1205, Guide to Competency, and are using them to create adapted resources to directly support the Marine Forecasting competency assessment. In particular, they are adapting the aviation forecasting competency toolkit, because many aspects are applicable to marine services. They have decided to set up a collaborative space to promote discussions among Members planning to or having completed implementation of national marine weather forecasters competency assessment programs.

The assessment programme will be promoted through the WMO designated National Marine Services Focal Points (NMSFP) as well as regional associations. Letters from WMO will also go out to all Members. The toolkit is being prepared for availability by the end of 2022.

## **Resource collection**

The Chair of ET-CCD, Dr. Parrish and Ms. Nurhayati are leading this activity. This activity does not have an output that is expected for submission to SERCOM but will be ongoing work. The ET are looking for many types of resources that support the competency frameworks and not just training materials (including self-directed training resources, shareable protocols and public outreach materials). An invitation letter was drafted and the intention is to eventually circulate the invitation to Members. In the letter, Members are requested to look within their organizations for shareable information/materials either created by them or offered by other sources. One long-term goal would be to incorporate this collection into a larger WMO Global Campus collection.

## **WMO Marine Services Course**

The WMO Marine Services was designed to address marine service delivery competencies and issues, rather than marine forecasting, according to the priorities put forth by the Head, Marine Services Division. This includes user communication, understanding user needs for marine weather information, and providing more user-centered services. Participants conduct a marine service delivery context analysis for their national service during the course, based on the WMO Service Delivery Strategy and resources from WMO-No. 1129.

The course has already been successfully implemented for Spanish Speaking RA III & RA IV Members, English-speaking RA V Pacific Islands, and RA-IV English speaking Caribbean countries. For RA I, regional courses are being offered based on language, i.e., English-speaking, French-speaking and Arabic-speaking Members (non-RA I countries are also planned to be invited to the Arabic course).

So far, Phase I distance learning courses have been conducted for RA-III/IV (Spanish), RA-V Pacific Islands (English), RA-IV Caribbean region (English)

A Phase II, distance learning and face-to-face course is being prepared first for the Pacific Islands. The face-to-face portion will take place in the Cook Islands in September/October. Phase II is continuation of the 13-week online course. It will be customized to some degree for each region, based on gaps identified during Phase I and the regional context. Phase II is expected to address IBFWS, MHEWS, regional collaboration between services, the role/responsibility of METAREA, GDPFS and other forecasting aspects (including NWP, Coastal Inundation Forecasting and Satellite products).

## **WMO-IMO collaboration on weather training for mariners**

Mr. Ismael Delgado and Mr. Park, experts from IMO and members of the ET-CCD, have shared findings from the first WMO-IMO Symposium in 2019 that a communication gap existed between mariners and the weather community. To further understand and address this gap, the IMO model courses for mariners will be examined to potential updates to include the latest information on marine weather forecasting relevant for mariners. IMO model Courses assist course providers or developers in developing training. The Standards of Training, Certification, and Watch keeping (SWTC) Convention will be reviewed at IMO, so it is timely to prepare

updates the courses in the next 5-6 years, which have not been reviewed for some time.

An initial investigation is being conducted by looking at casualty reports generated by IMO to see how many accidents are caused or affected by weather events. The Secretariat will further work with IMO to understand the gaps identified and recommend options for revising the training mariners receive. At the same time, it is an opportunity to examine if the sharing of weather information with mariners can be improved.

### List of ET-CCD Members

Name	Member/Partner
<b>ET-CCD Members or Observers</b>	
Patrick Parrish (Chair)	Switzerland
RenganadenVirasami (Vice Chair)	Mauritius
Ismael Cobos Delgado	IMO
Jongchul Park	IMO
Teddy Allen	British Caribbean Territories
Kiryong Kang	Republic of Korea
NoerNurhayati	Indonesia
Jennifer Strahl	USA
<b>Secretariat</b>	
Sarah Grimes	WMO
Misaeli Funaki	
NaYeon Kim	
David Wyatt	