



# Review of IMMT format and MQC standards

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ETMC-II, 26<sup>th</sup>–27<sup>th</sup> March 2007

Since 1993 the Global Collecting Centres for marine climatological data have been responsible for the International Maritime Meteorological Tape (IMMT) and Minimum Quality Control Standards (MQCS) format and contents.

These have undergone a number of changes, most recently because of the VOS Climate project.

# Changes to create IMMT-4 (1)



There have been some minor changes to the IMMT format to ensure syntax is correct:

- The code for wind direction has been corrected to lower case (“dd”)
- The versions of IMMT and MQCS have been updated in line with these suggested changes



Description of elements have been updated:

- Element 40, source of observation, revised to specifically refer to electronic logbook software
- Quality control indicator, flags 6 & 7 have been updated to reveal their use by GCCs

## Changes to create IMMT-4 (2)



The reason for the change is mostly to tidy up the VOSClm elements and flags, whose set-up did not follow the same pattern as the standard VOS elements:



- Elements 91 and 92 – the sign has been separated from the value of the “departure of reference level from actual sea level”
- This has a knock on effect to subsequent VOSClm element numbers
- The QC indicator for the sign of the “departure of reference level from actual sea level” has been removed – no other signs of values had a flag

# Changes to create MQCS-VI



- Checks on the range of values for some indicators added (cloud height and visibility - element 9; version of FM-13 code – element 64; version of IMMT format – element 65)
- Increase in maximum height of deck cargo above summer maximum load line (element 90) to 35 metres
- Flags on VOSClm elements (and not signs of values) updated to take into account re-numbering of VOSClm elements



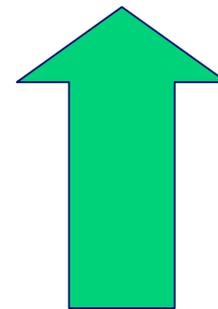
- All agree with recommendations presented?

- Any additions?



- How to take forward for implementation

- Present to SOT?
- Timescale for change?
- JCOMM acceptance?



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**Further discussion**