

Report of  
metrological audit  
of icebreaker  
Sankt Erik

*Dominik Pražák*

*Martin Vičar*

4<sup>th</sup> July, 2007



# Icebreaker Sankt Erik

launched: 1915, museum: since 1980



- Metrological audit focused on the manometers was performed by CMI employees on the 4<sup>th</sup> July, 2007.
- Various Bourdon gauges are utilized for the pressure measurements.



CM.HG.VAC. – KGM. SQ. CM. PRESS.



Meter Vatten  
*(the only swedish unit)*



Kg.pr.qcm. ~ Lbs



lb./sq.in.  $\sim$  kg/cm<sup>2</sup>



$\text{Kg.pr.cm.}^2$





KG. PR. □ CM.  
Kg.pr.□cm.



Kilo.pr.□Ctmr.



KGS. PER SQ. CM.



Kg/□Cm



kp/cm<sup>2</sup>



bar / MPa

# Summary I

There are utilized 5 distinct pressure units.

bar

MPa

Meter Vatten

CM.HG.

kg/cm<sup>2</sup> (kp/cm<sup>2</sup>)

It means to remember 10 (for some people 20)  
conversion factors.

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# Summary II

Moreover unit kilograms per square centimeter has 9 symbols (omitting  $\text{kp}/\text{cm}^2$ ).

$\text{kg}/\text{cm}^2$

KGM. SQ. CM. PRESS.

Kg.pr.qcm.

Kg.pr.cm.<sup>2</sup>

KG. PR. □ CM.

Kg.pr.□cm.

Kilo.pr.□Ctmr.

Kg/□Cm

KGS. PER SQ. CM.

# Conclusions

1. It is obvious why sailors were heavy drinkers.
2. No instrument has a valid calibration.
3. SP neglected metrological supervision in this case.