



## Workshop on Durability Design DTI, Nov. 18th, 2014

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### Marine field exposure site in Träslövsläge, SE

Träslövsläge data from: Dimitrios Boubitsas, Tang Luping, Peter Utgenannt:  
"Chloride Ingress in Concrete Exposed to Marine Environment – Field data up to  
20 years exposure", SBUF, Final draft rapport: 2014-02-14, 137p.



Marine exposure of approx.  
40 different concrete types  
starting in 1991.

## Marine field exposure site in Träslövsläge, SE

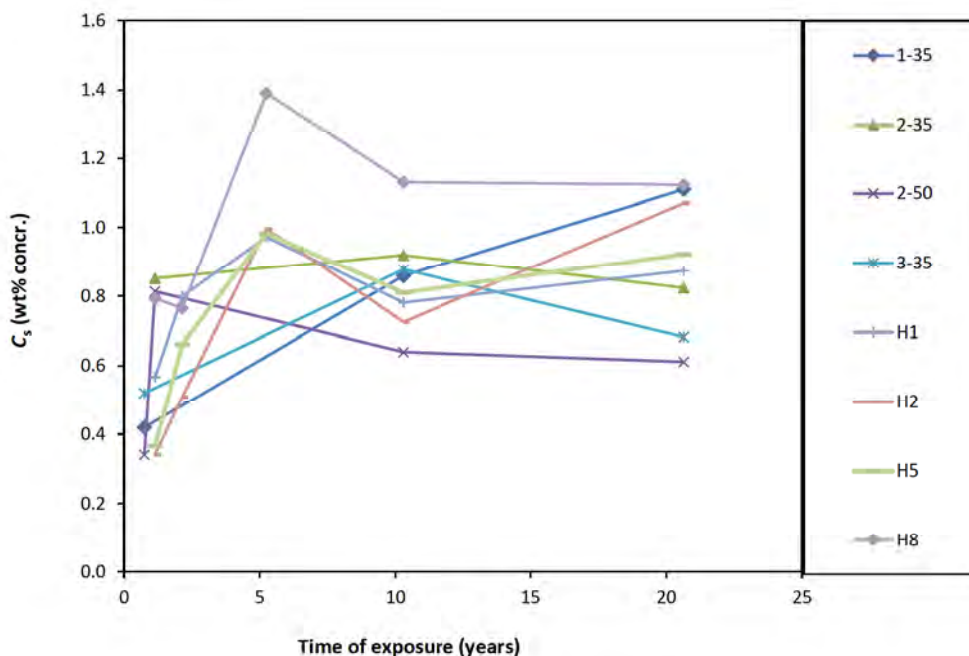
### Mix compositions of selected mixes

Mix No.	Binder type	Binder kg/m <sup>3</sup>	Water-binder ratio	Fine aggreg. 0-8 mm kg/m <sup>3</sup>	Coarse aggreg. 8-16 mm kg/m <sup>3</sup>	Sp2) % of binder	AEA3) % of binder	Air content %	28d compr. Strength MPa
1-35	100Anl	450	0.35	839	839	1	0.041	6.0	70
2-35	100Slite	450	0.35	801	868	1.7	0.038	5.7	60
2-50	100Slite	390	0.50	853	787	-	0.026	5.8	42
3-35	95Anl+5SF	450	0.35	801	868	1.2	0.08	5.8	72
H1	95Anl+5SF	500	0.30	836	942	2.3	-	0.8	112
H2	90Anl+10SF	500	0.30	820	963	2.1	-	1.1	117
H5	95Anl+5SF	551	0.25	806	946	3	-	1.3	125
H8	80Anl+20FA	616	0.30	680	865	2.8	-	3.0	98

## Selected results from Träslövsläge

Calculated surface chloride concentrations versus exposure time

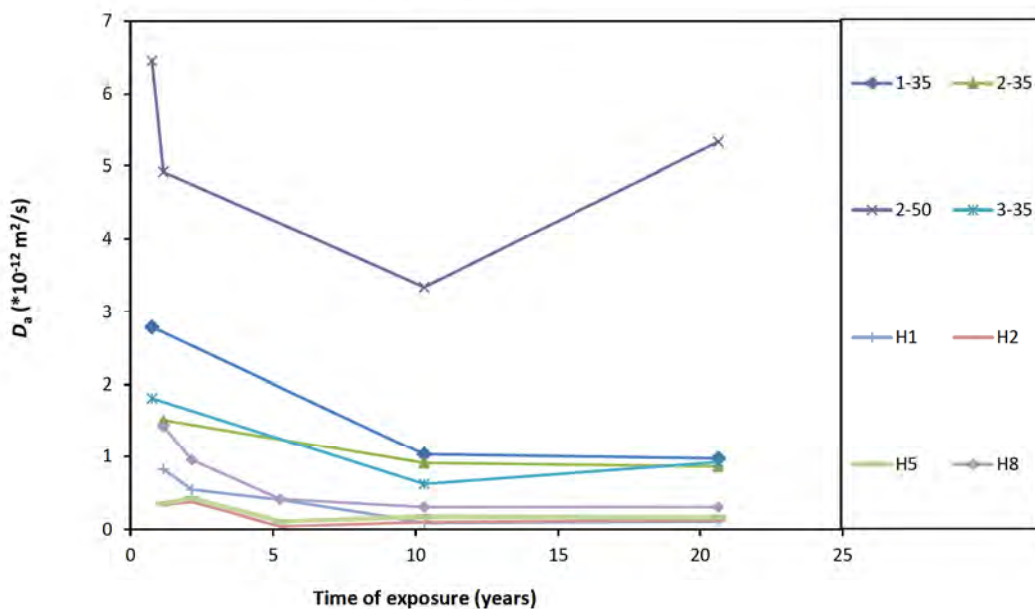
### Submerged zone



## Selected results from Träslövsläge

Achieved diffusion coefficients versus exposure time

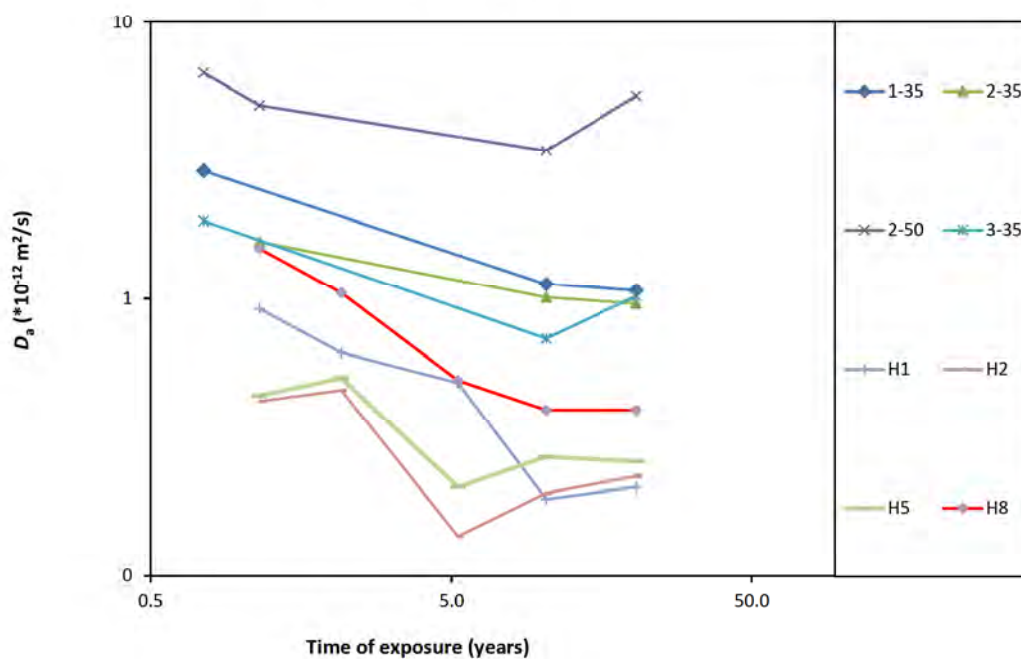
### Submerged zone



## Selected results from Träslövsläge

Achieved diffusion coefficients versus exposure time (Log-Log scale)

### Submerged zone



# Selected results from Träslövsläge

Achieved diffusion coefficients versus exposure time (Log-Log scale)

## Submerged zone

