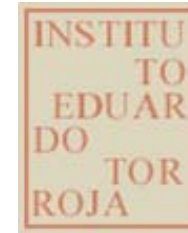


GEOMETRICAL VARIATION OF CORROSION PARAMETERS IN A BEAM AND A PILLAR OF REINFORCED CONCRETE CONTAINING CL-



B. Sanz. UPM-CISDEM
C. Andrade. IETCC-CISDEM

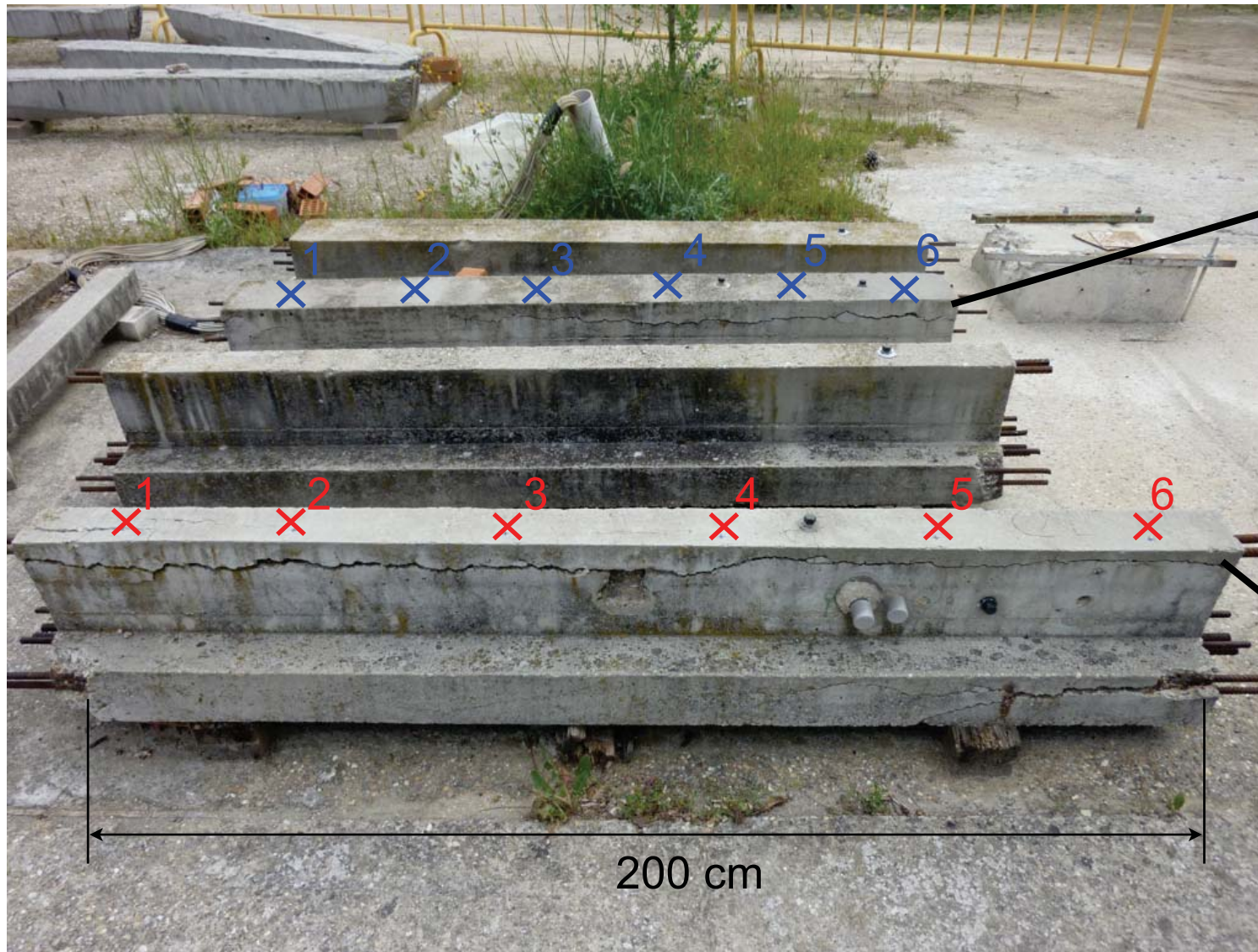


JOINT *fib*- RILEM WORKSHOP
MODELLING OF CORRODING CONCRETE STRUCTURES
22-23 November 2010
Madrid, Spain



1. General aspects of the study
2. Results of all the measurements
3. Correlation of corrosion parameters and T
4. Geometrical variation of corrosion parameters

Beam and pillar of this study



Pillar



Beam



Measurement instrument: GECOR 8



Confinement



E_{corr} i_{corr} R_e

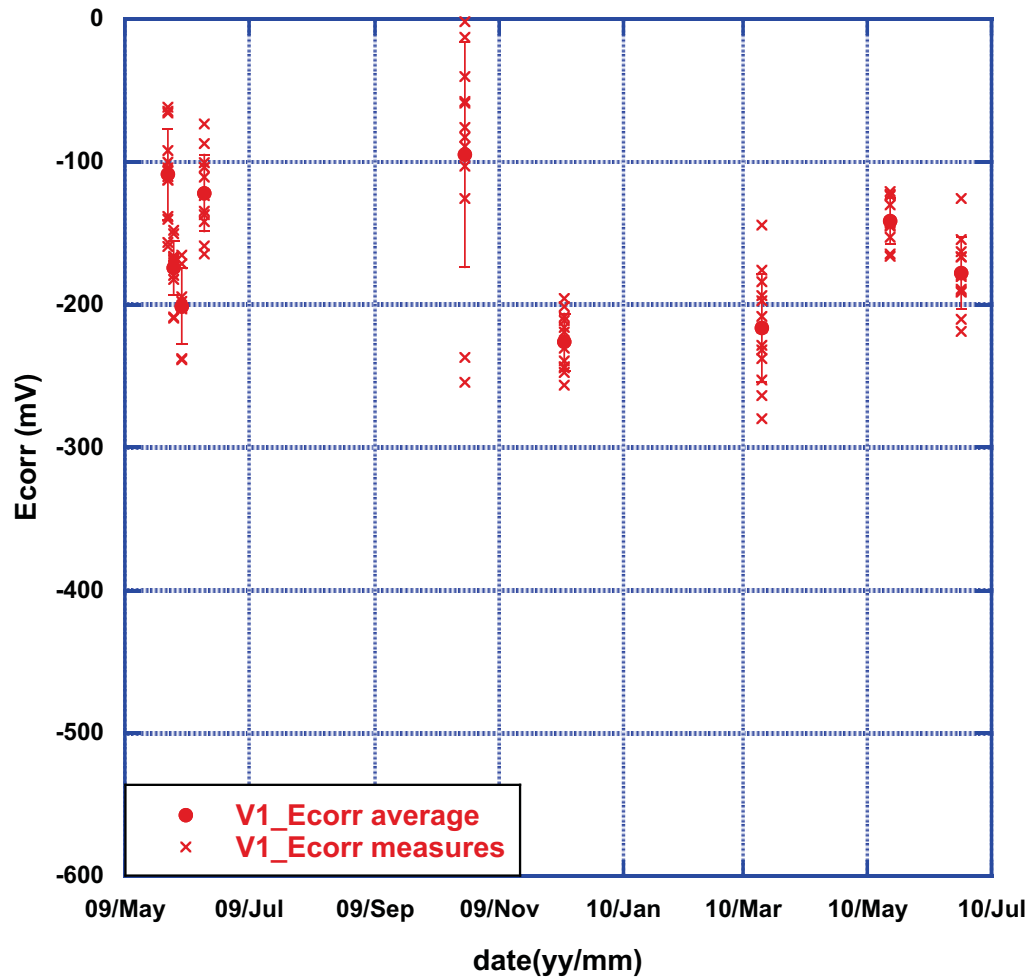
Mapping



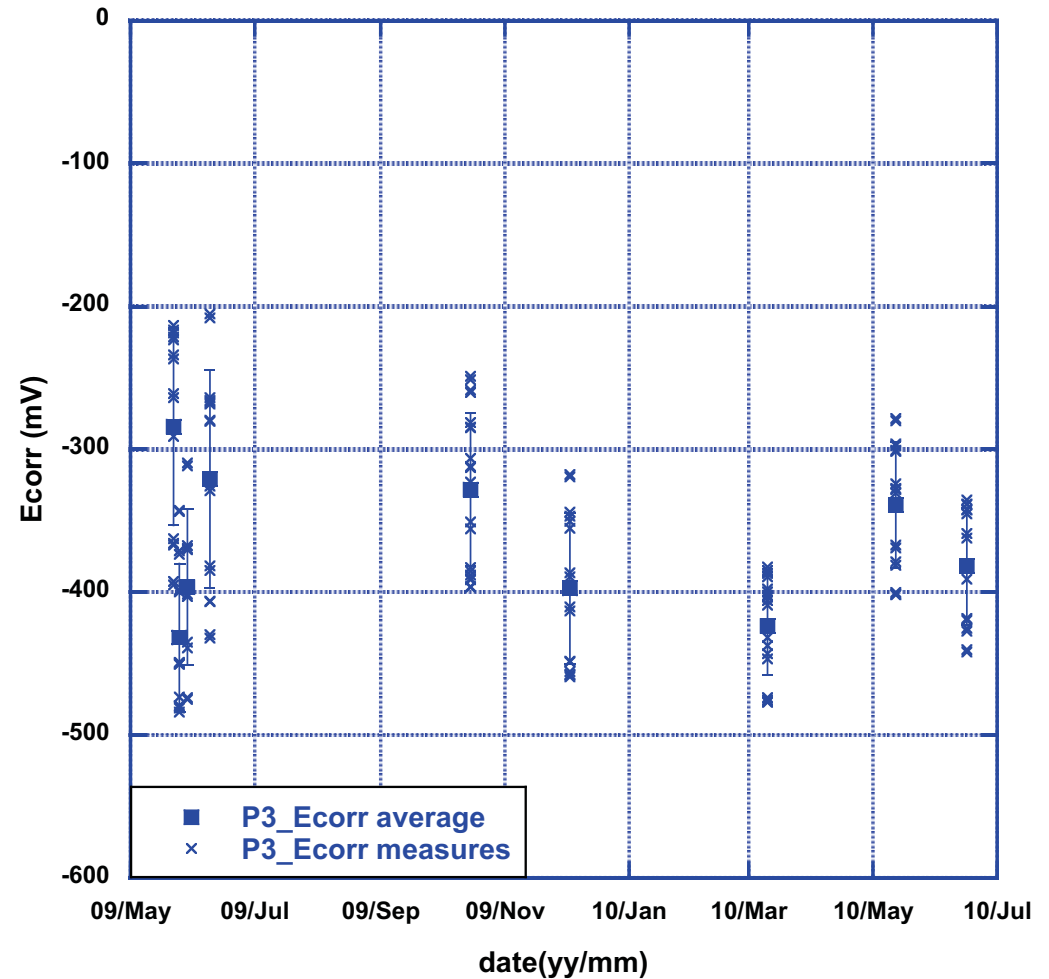
E_{corr} ρ risk level

Average and measurements vs date: Ecorr

V1 Ecorr vs date



P3 Ecorr vs date



ASTM C-876

E referred to Cu/CuSO ₄	Corrosion activity probability
> -0.20 V CSE	90 % no corrosion
-0.20 - -0.35	uncertain
< -0.35	90 % corrosion