

Universitat Politècnica de Catalunya

Laboratori d' Enginyeria Marítima

# **Coastal Vulnerability to Storms in the Catalan Coast**

Memoria presentada por

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para optar al grado de Doctor por la  
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Director:

**José Antonio Jiménez Quintana**

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## **Appendix B**

### **Coastal vulnerability at a regional scale**

The next set of figures contain an example of the assessment of the coastal vulnerability index, as well as the two indicators (FVI and EVI) for a class V storm along the entire Catalan coast. The assessment considers the spatial variability of the storm as well as the coastal variability (beach orientation).

The figures are organized from north to south, the coast presents three bands, the inner most band (land bound) presents the CVI , the middle band presents the EVI, and the outer most band (sea bound) presents the FVI.

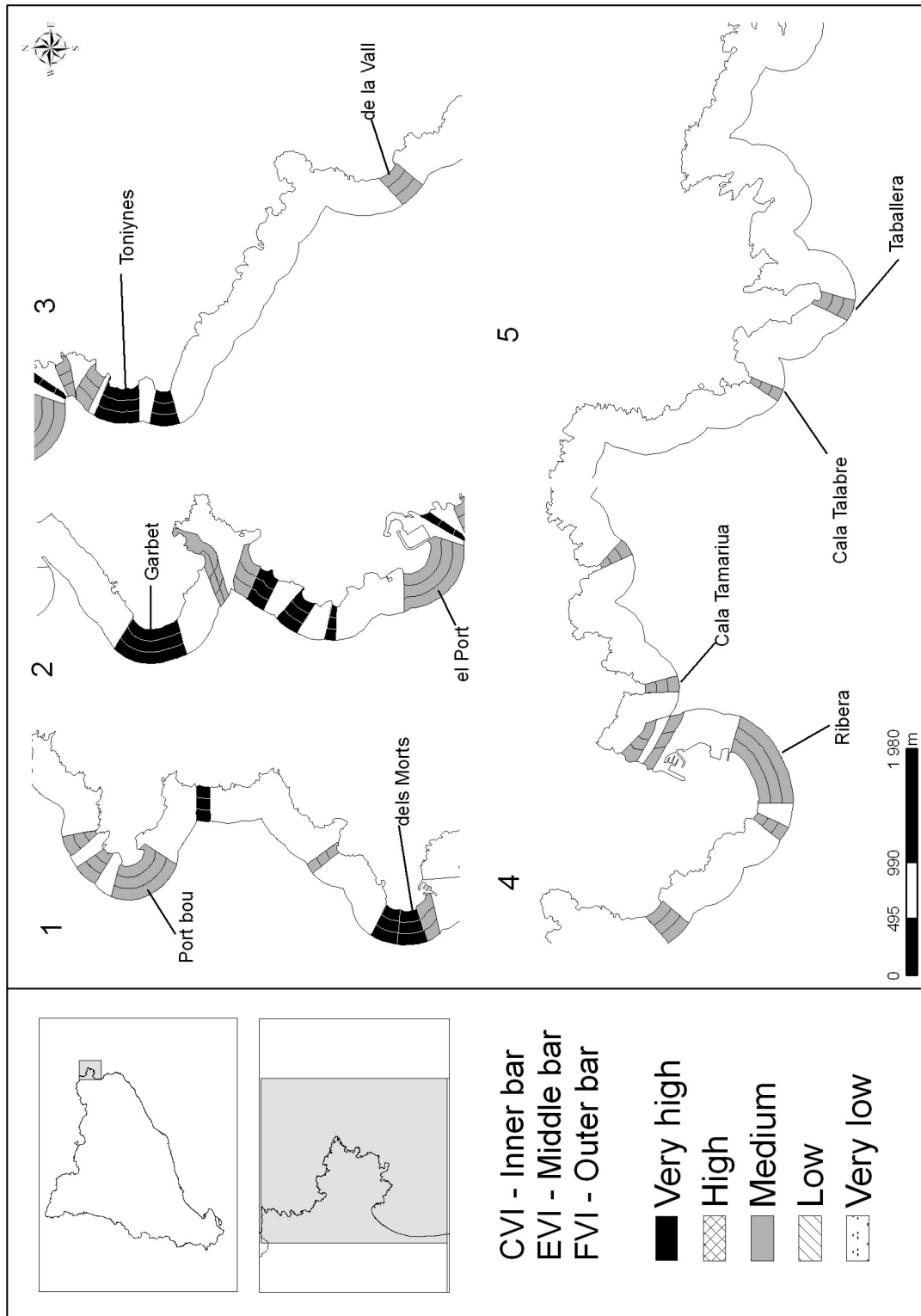


Figure B.1: Scheme of CVI, FVI and EVI for zone 1 under a class V storm (1of 3).

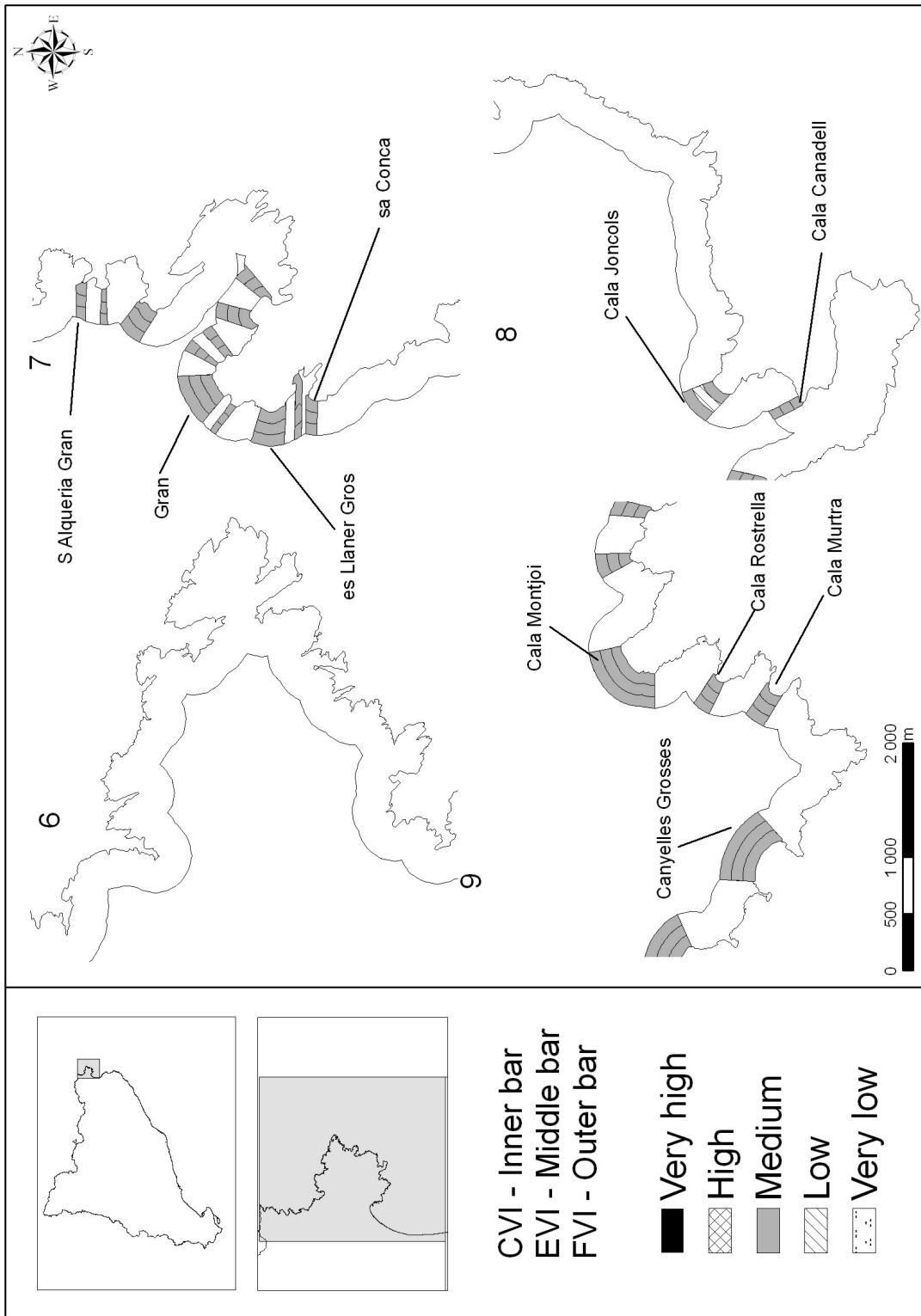


Figure B.2: Scheme of CVI, FVI and EVI for zone 1 under a class V storm (2 of 3).

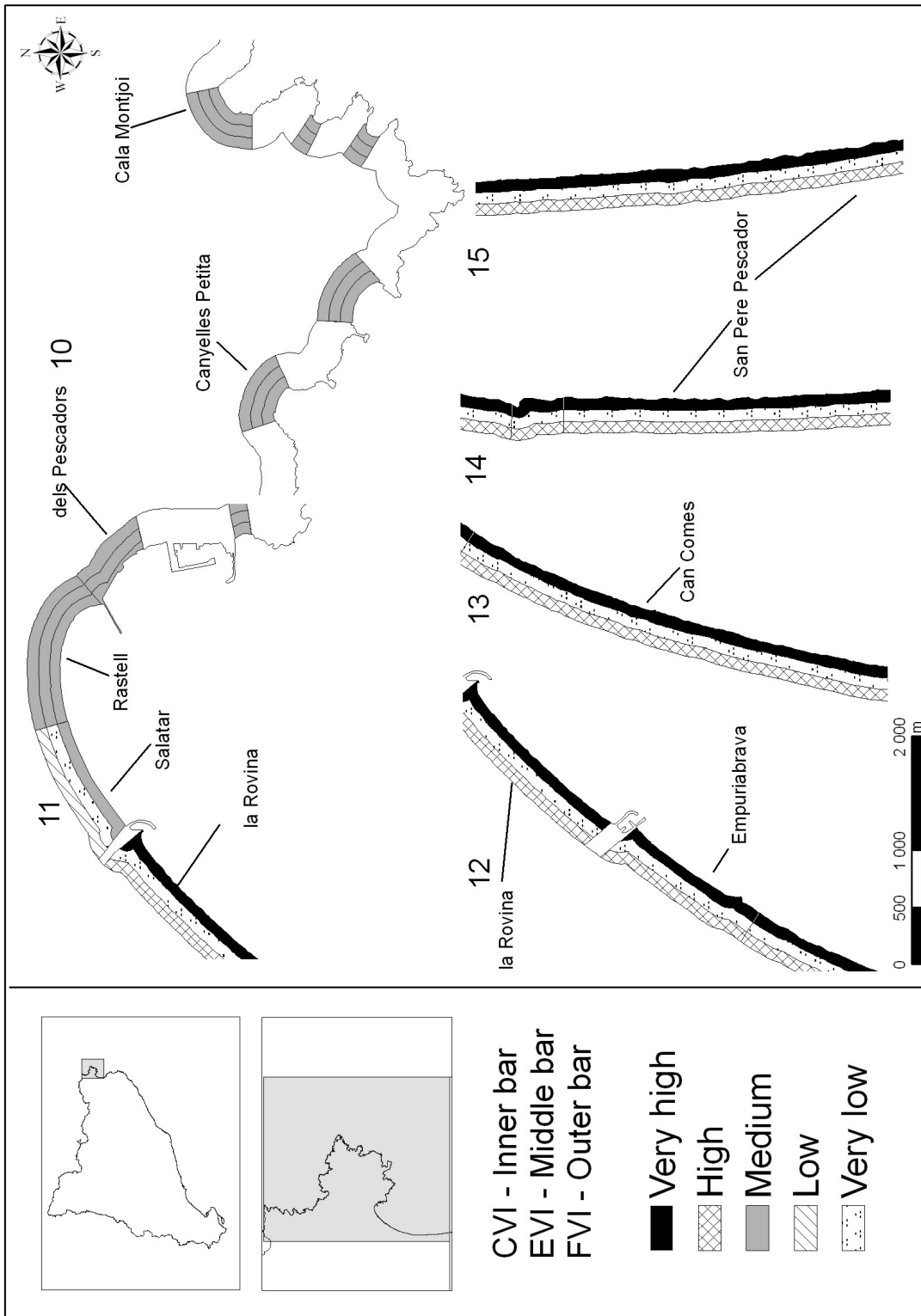


Figure B.3: Scheme of CVI, FVI and EVI for zone 1 under a class V storm (3 of 3).

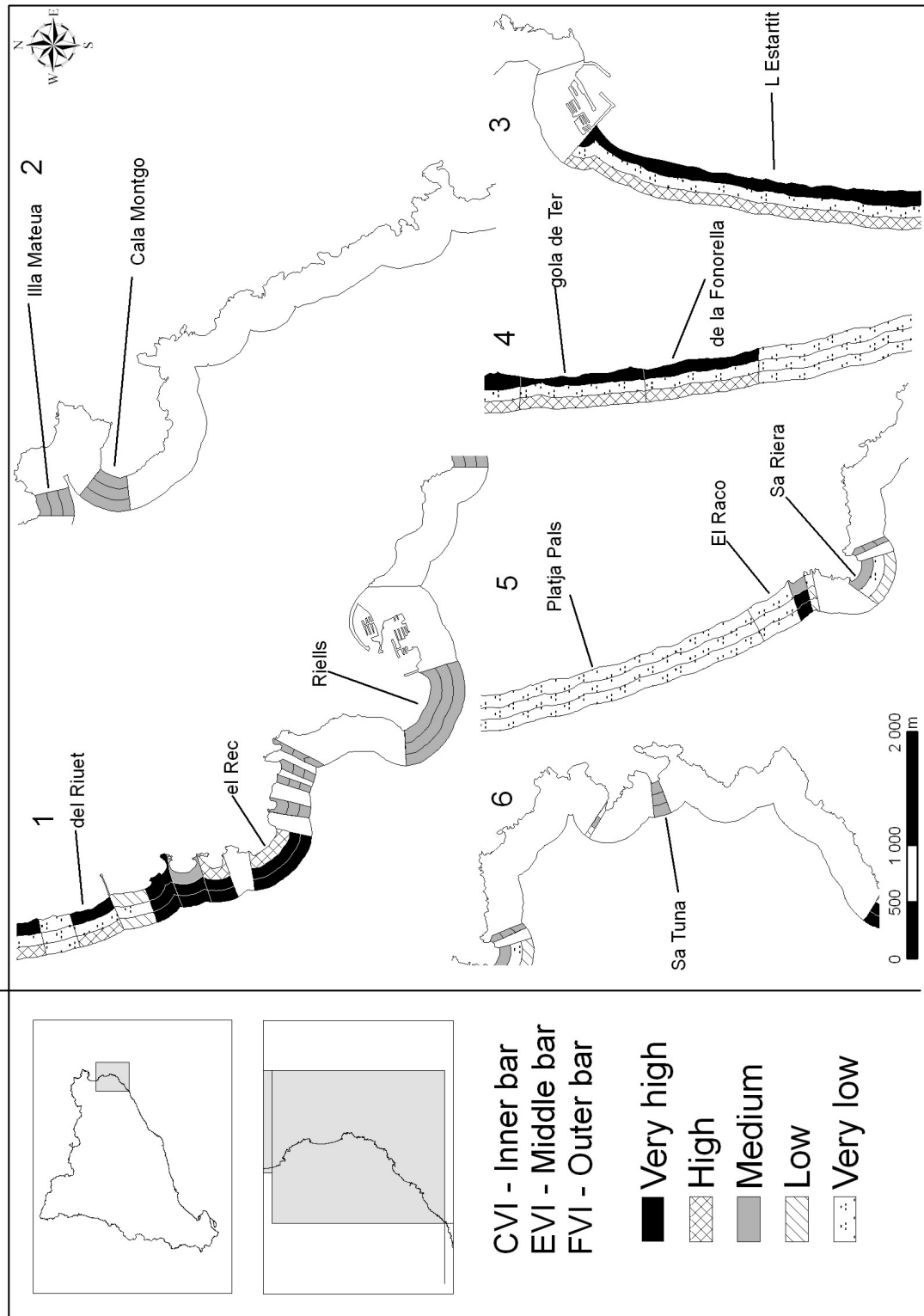


Figure B.4: Scheme of CVI, FVI and EVI for zone 2 under a class V storm (1 of 3).

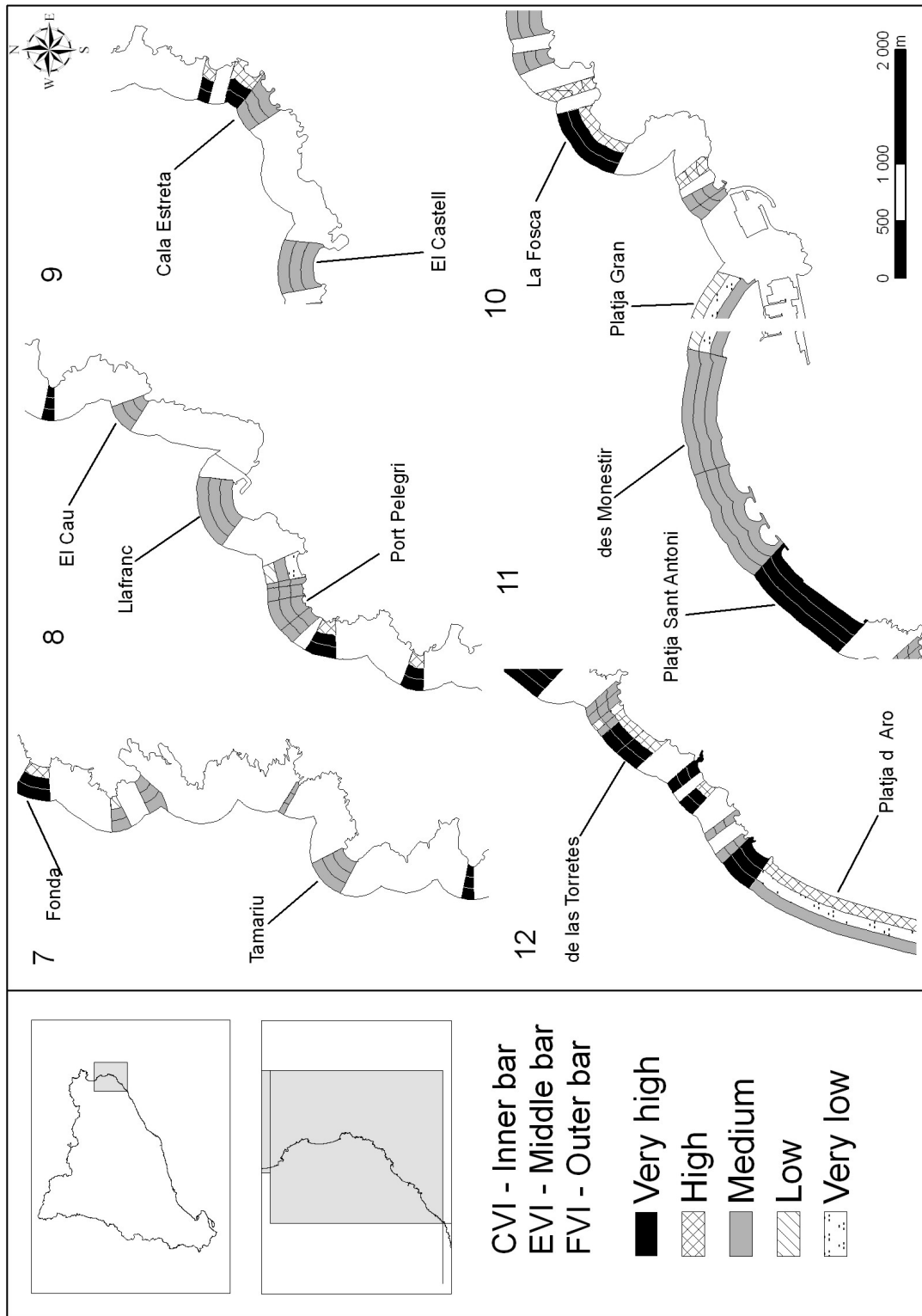


Figure B.5: Scheme of CVI, FVI and EVI for zone 2 under a class V storm (2 of 3).

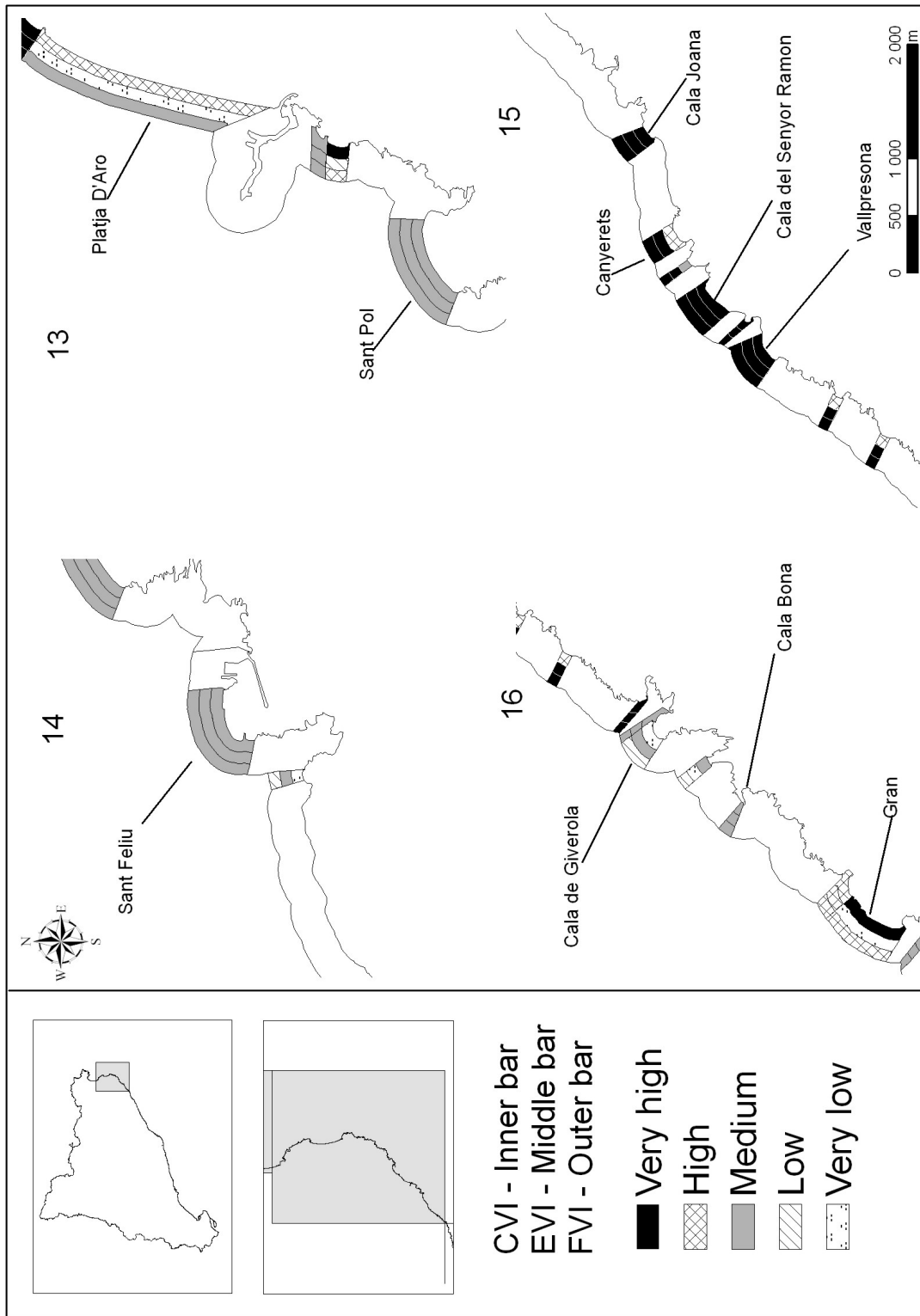


Figure B.6: Scheme of CVI, FVI and EVI for zone 2 under a class V storm (3 of 3).



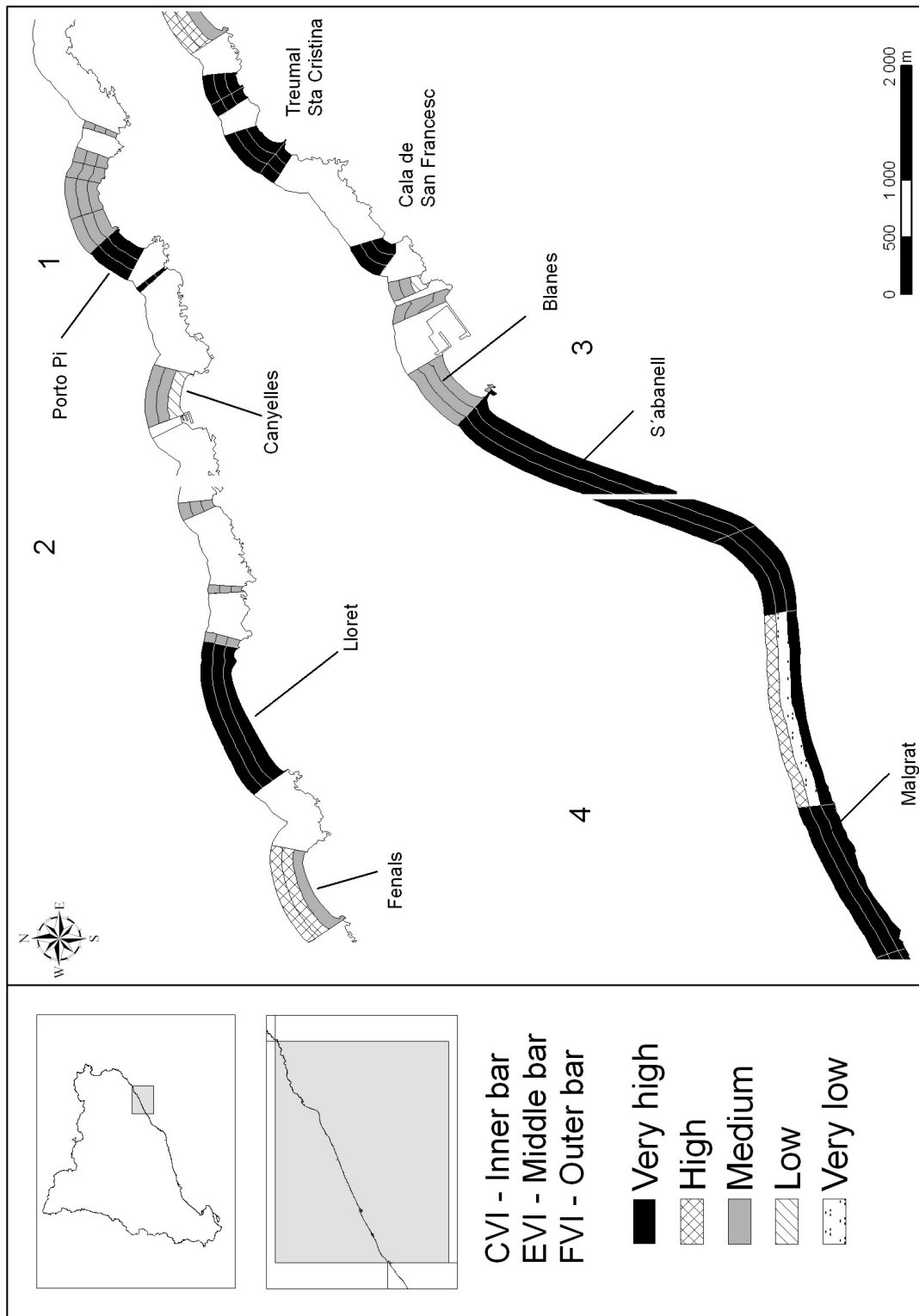


Figure B.7: Scheme of CVI, FVI and EVI for zone 3 under a class V storm (1 of 2).

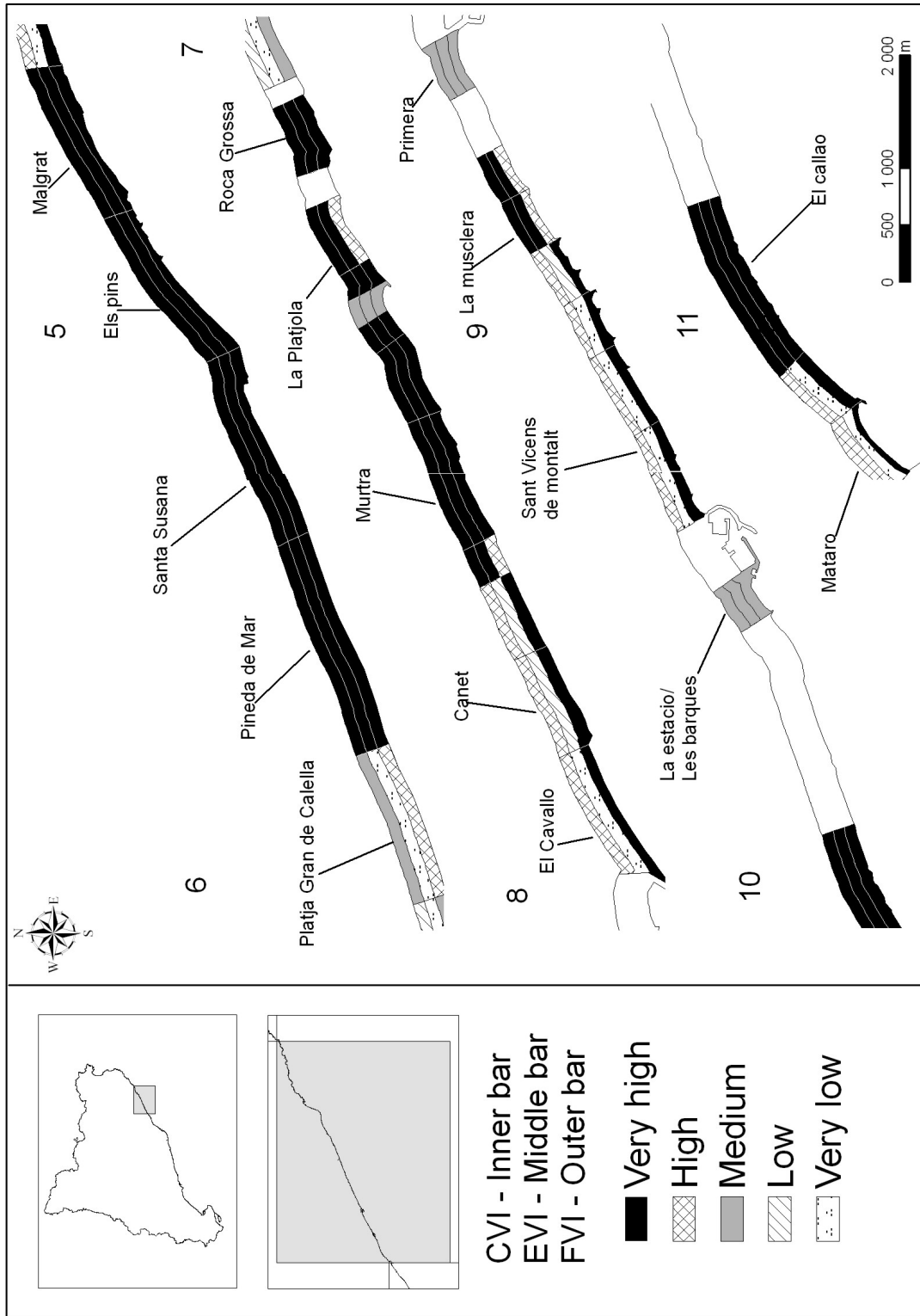


Figure B.8: Scheme of CVI, FVI and EVI for zone 3 under a class V storm (2 of 2).

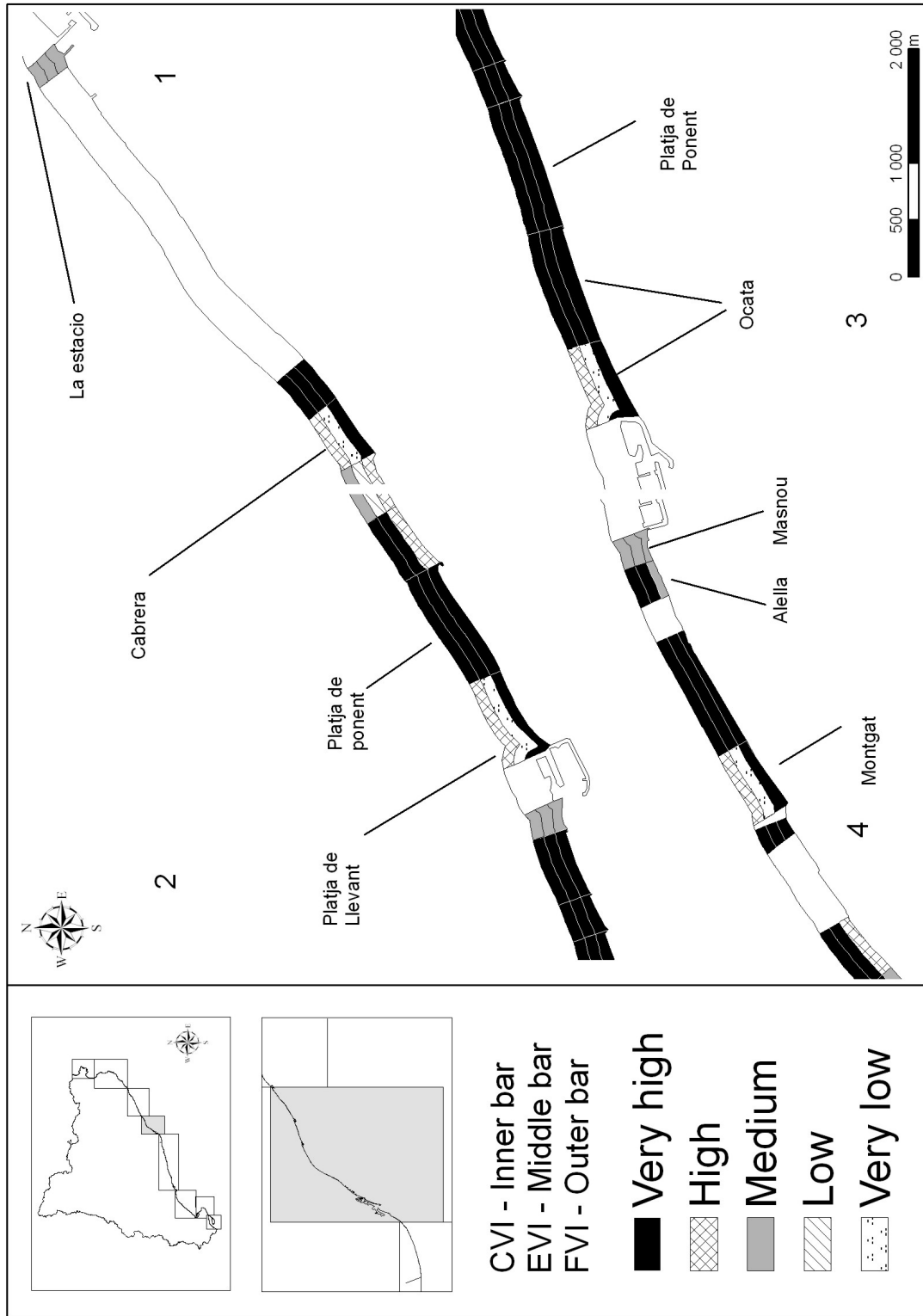


Figure B.9: Scheme of CVI, FVI and EVI for zone 4 under a class V storm (1 of 2).

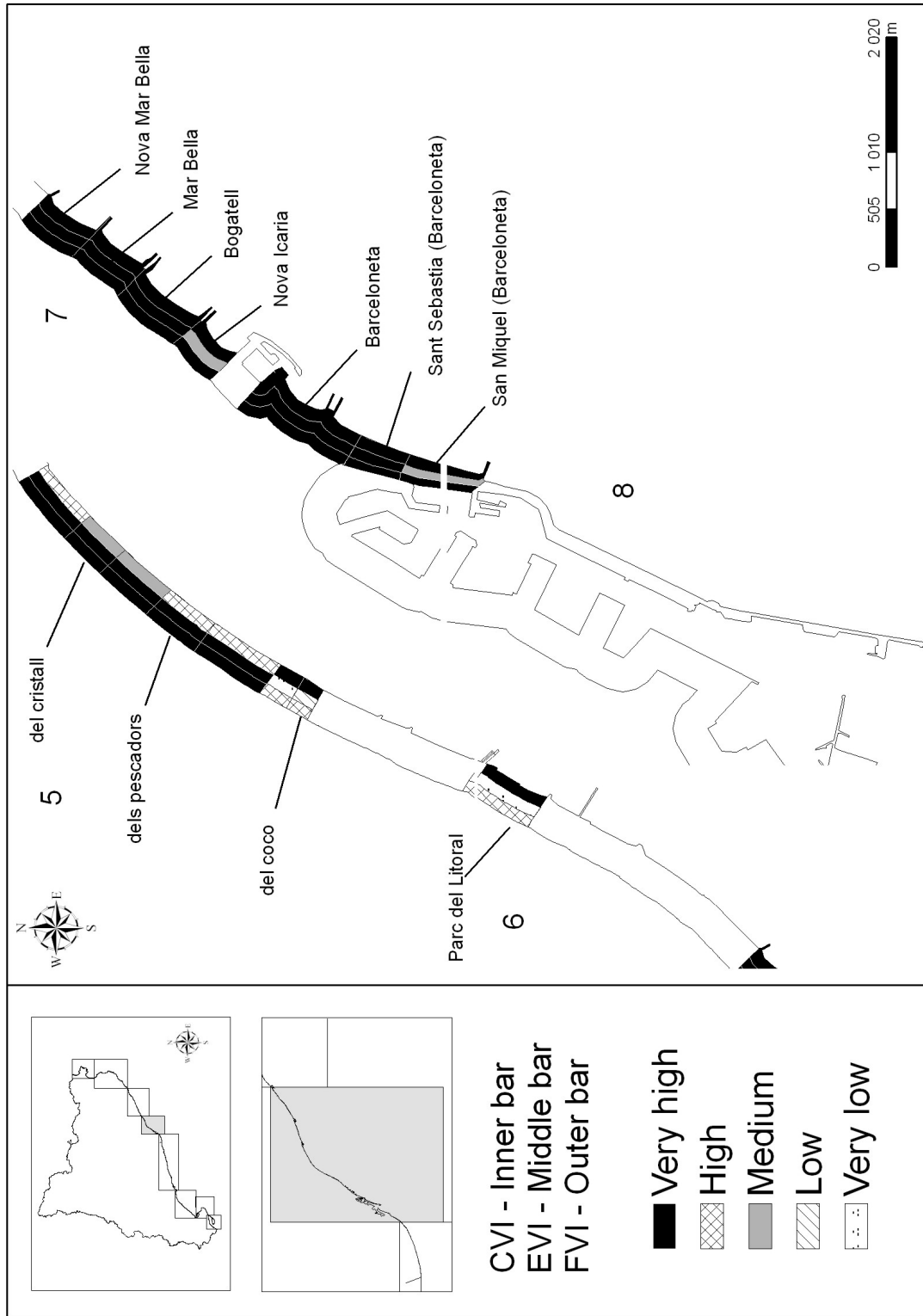


Figure B.10: Scheme of CVI, FVI and EVI for zone 4 under a class V storm (2 of 2).

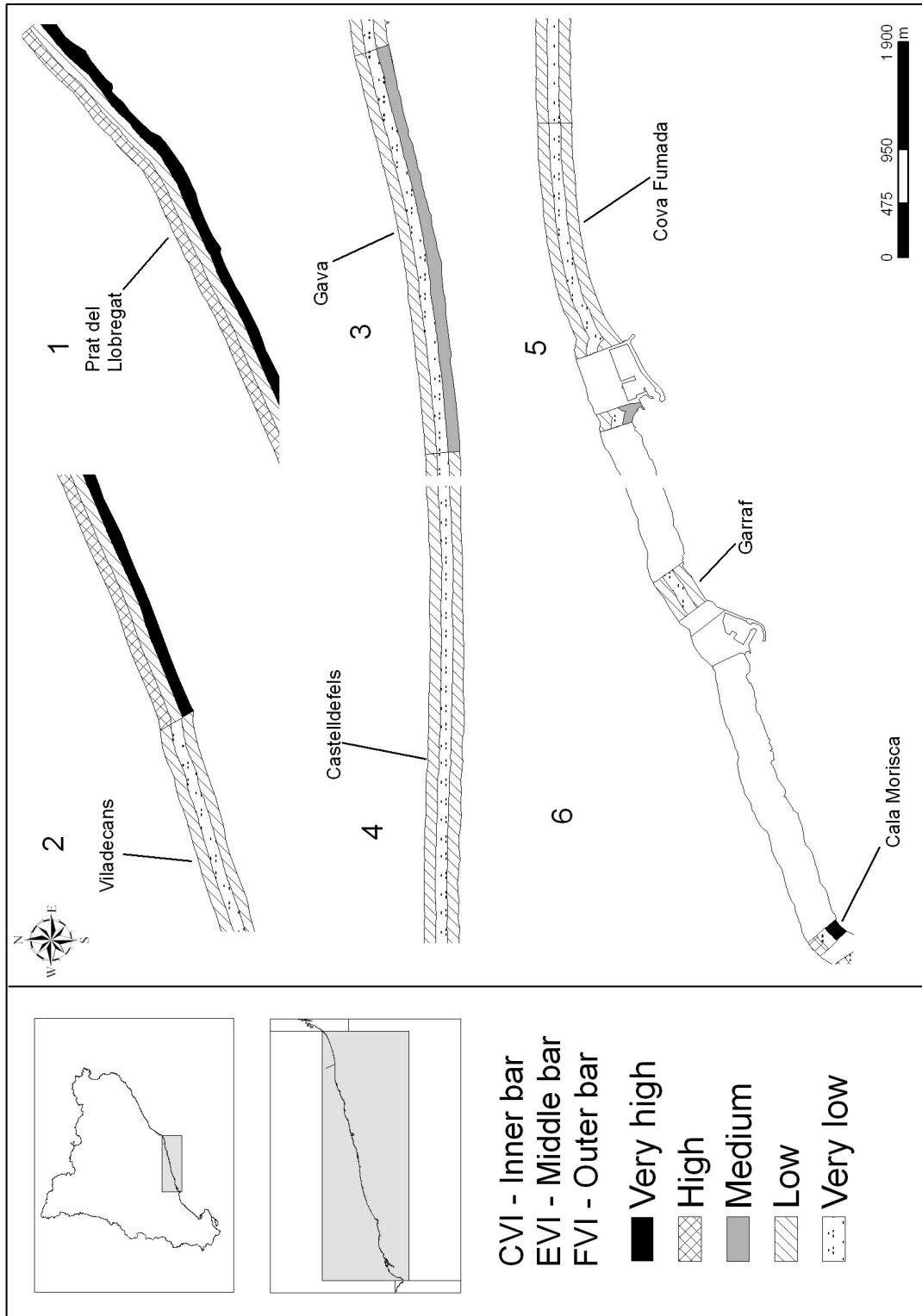


Figure B.11: Scheme of CVI, FVI and EVI for zone 5 under a class V storm (1 of 4).

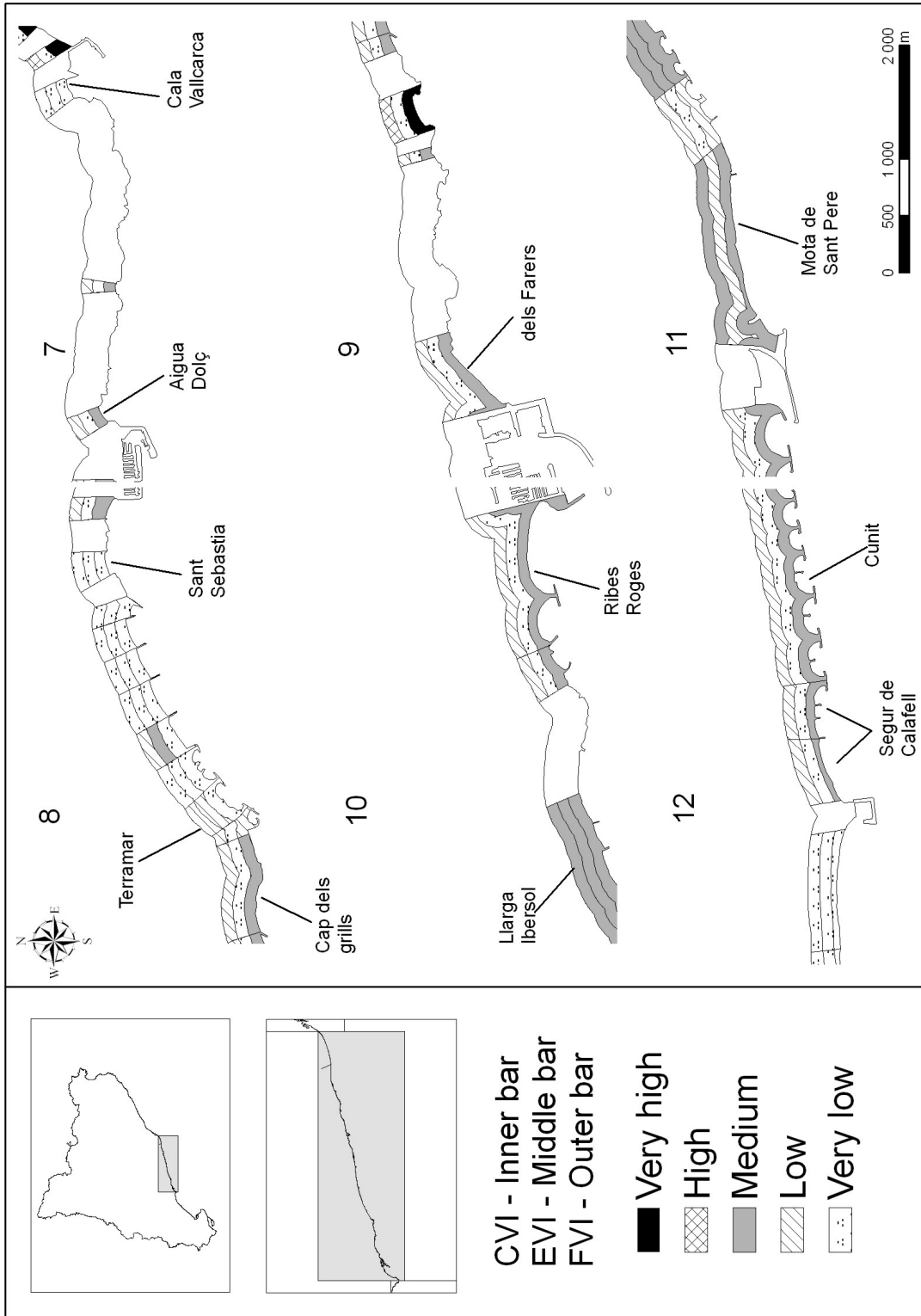


Figure B.12: Scheme of CVI, FVI and EVI for zone 5 under a class V storm (2 of 4).

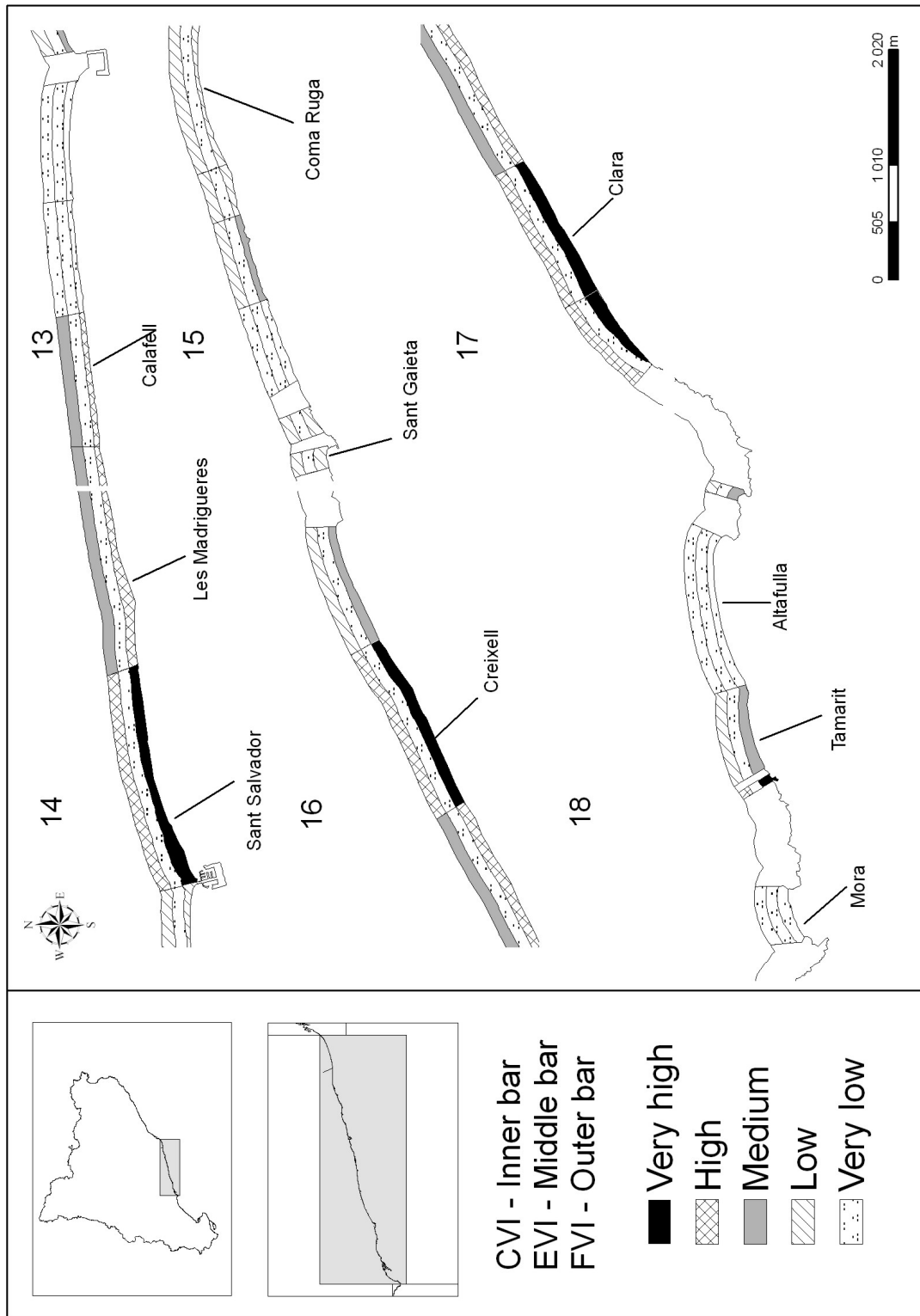


Figure B.13: Scheme of CVI, FVI and EVI for zone 5 under a class V storm (3 of 4).

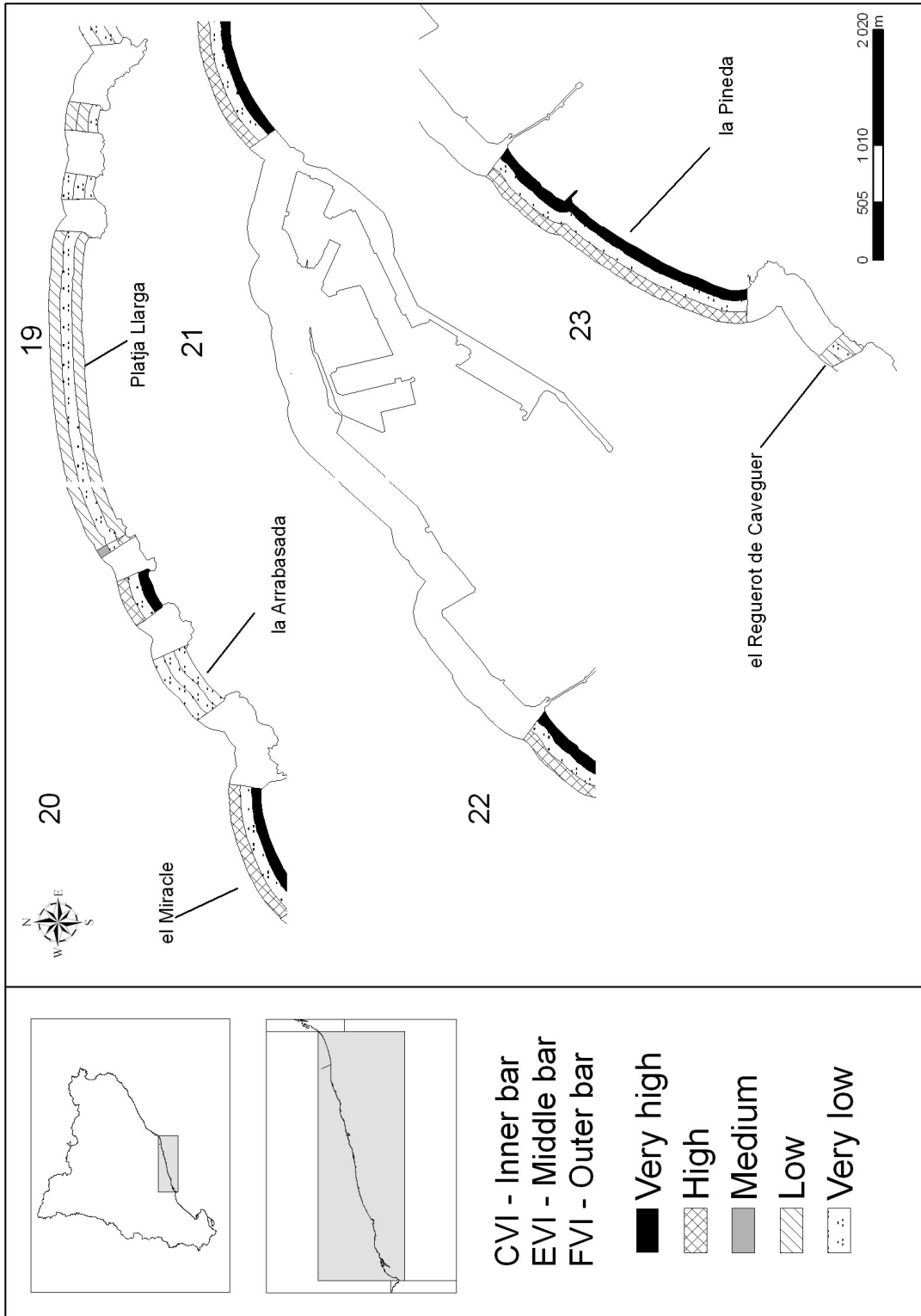


Figure B.14: Scheme of CVI, FVI and EVI for zone 5 under a class V storm (4 of 4).



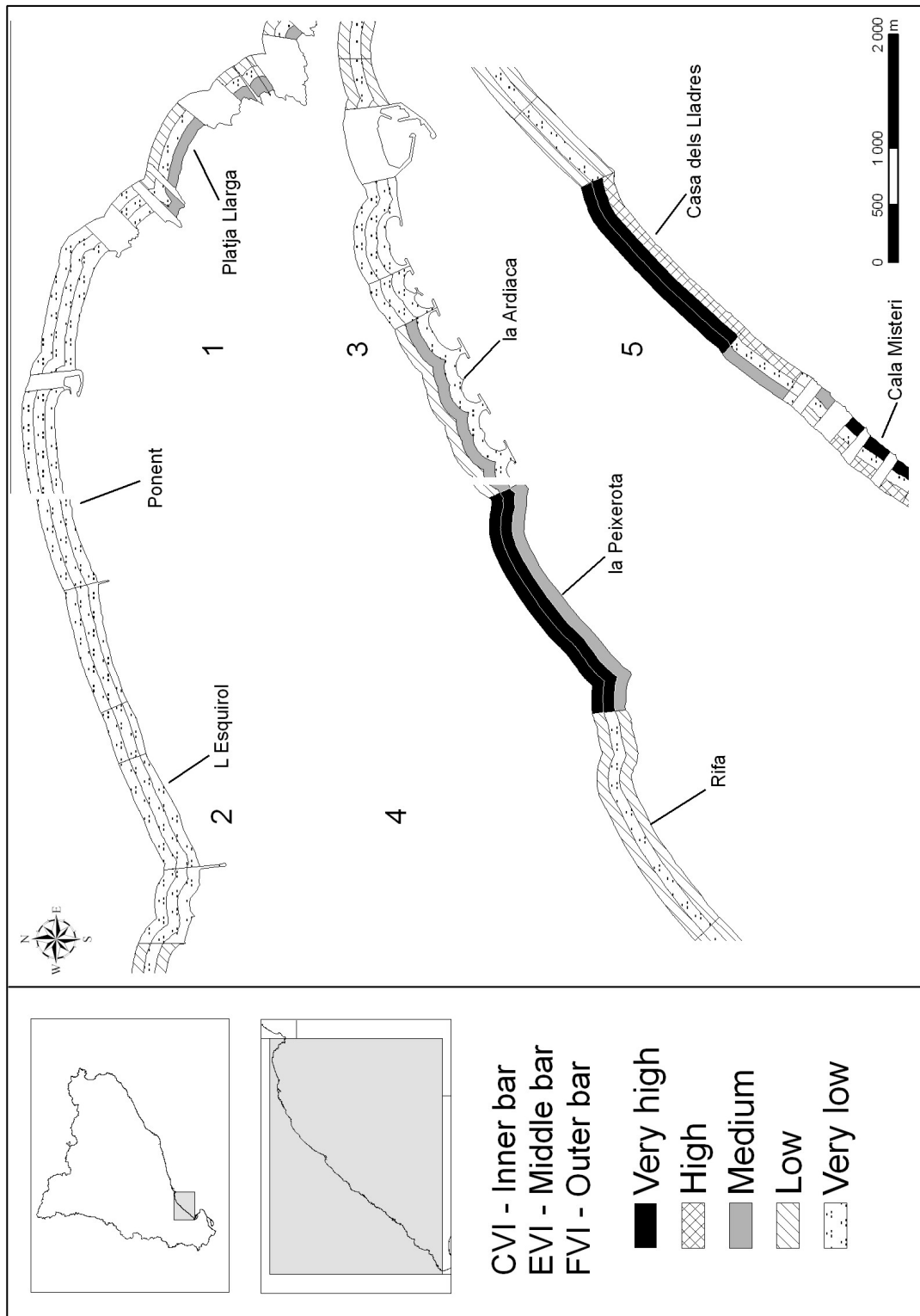


Figure B.15: Scheme of CVI, FVI and EVI for zone 6 under a class V storm (1 of 3).

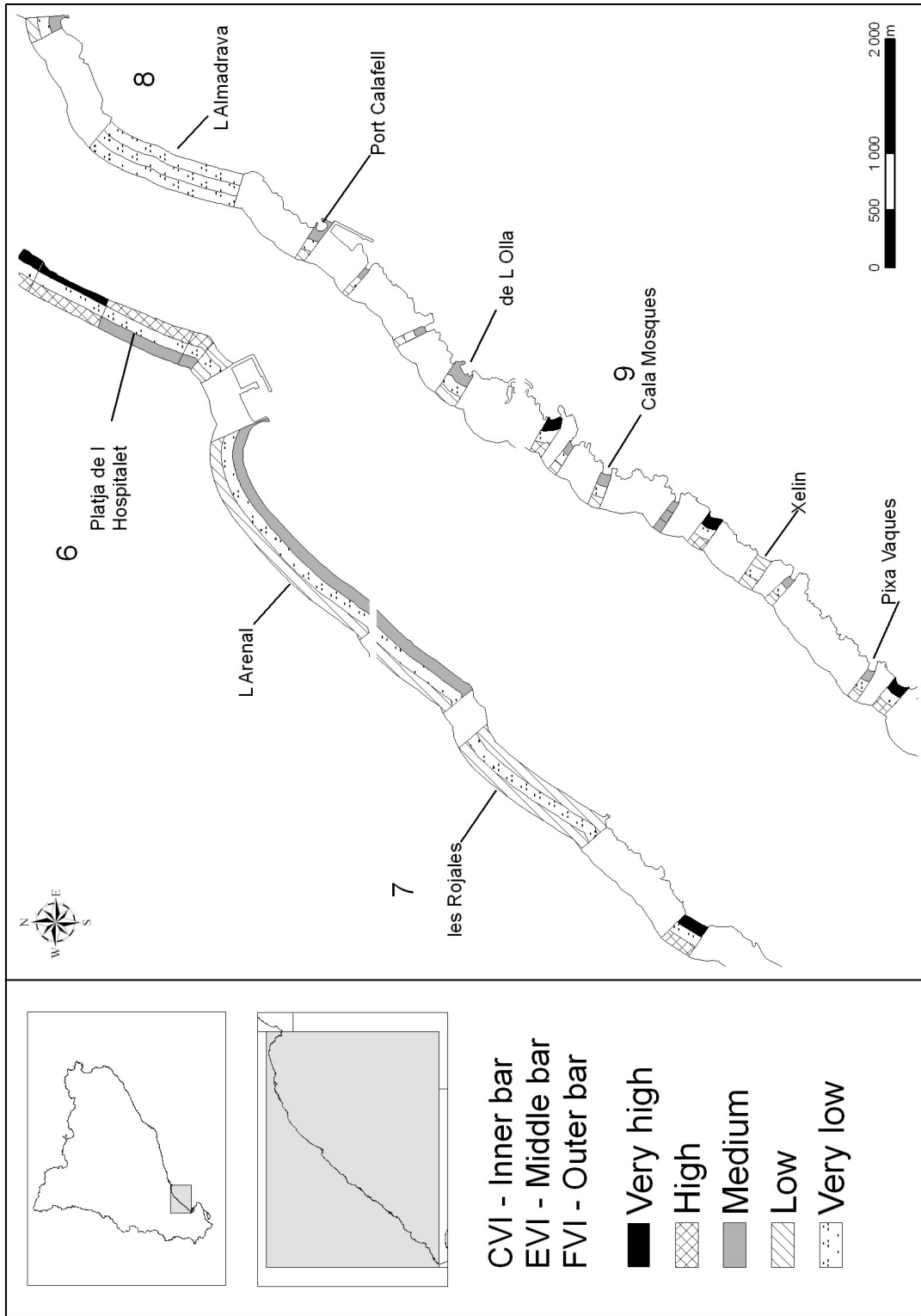


Figure B.16: Scheme of CVI, FVI and EVI for zone 6 under a class V storm (2 of 3).

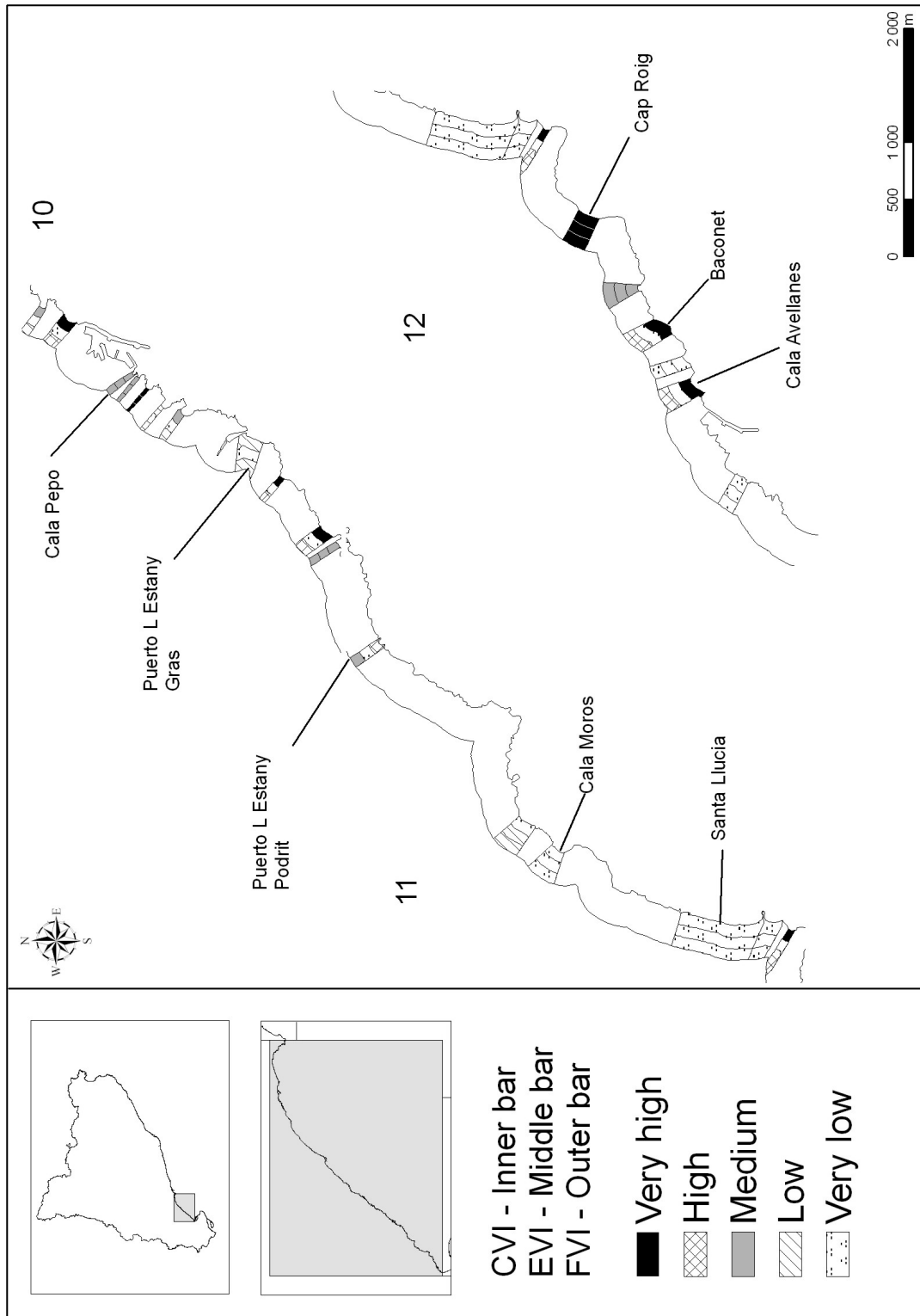


Figure B.17: Scheme of CVI, FVI and EVI for zone 6 under a class V storm (3 of 3).

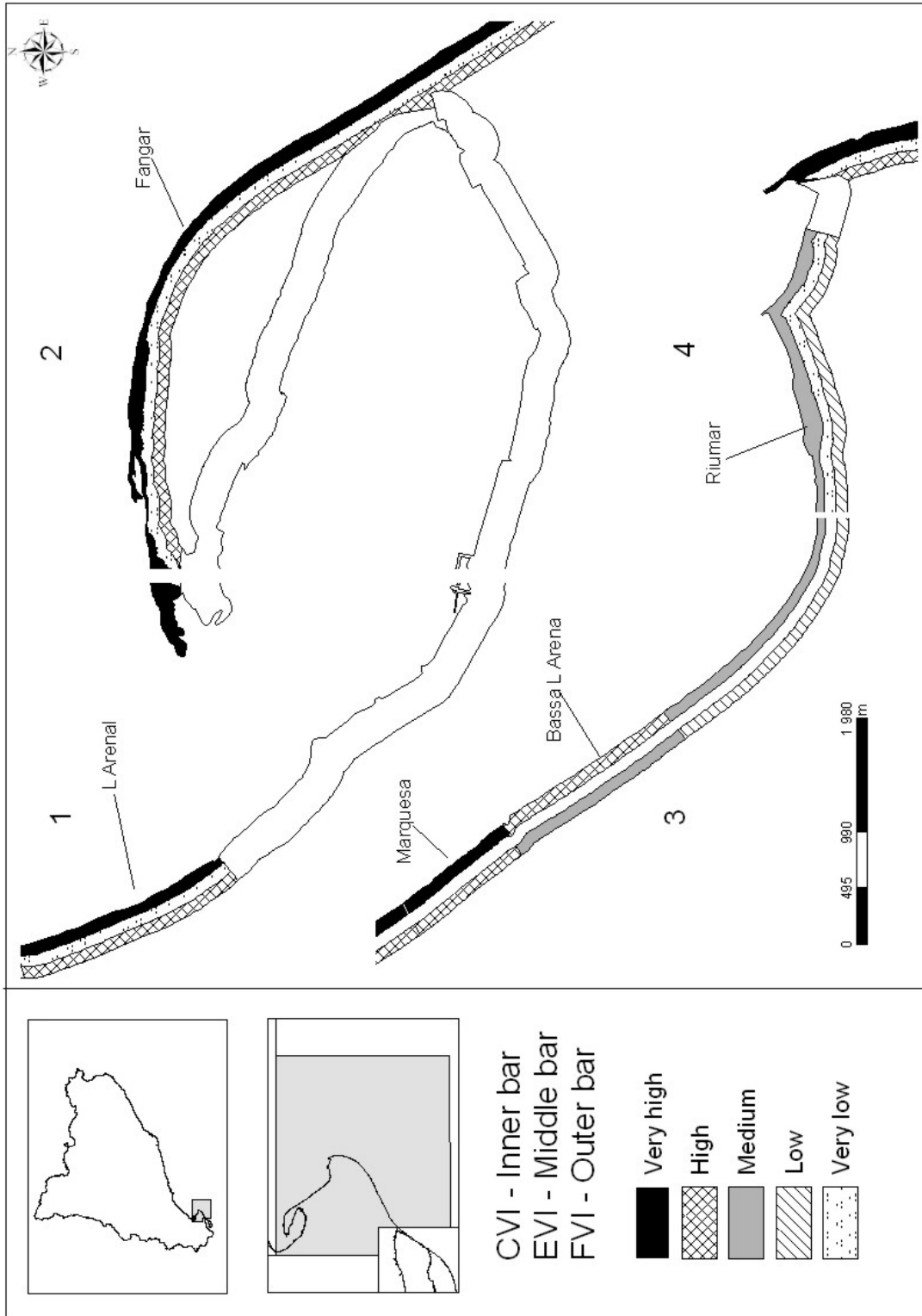


Figure B.18: Scheme of CVI, FVI and EVI for zone 7 under a class V storm (1 of 2).

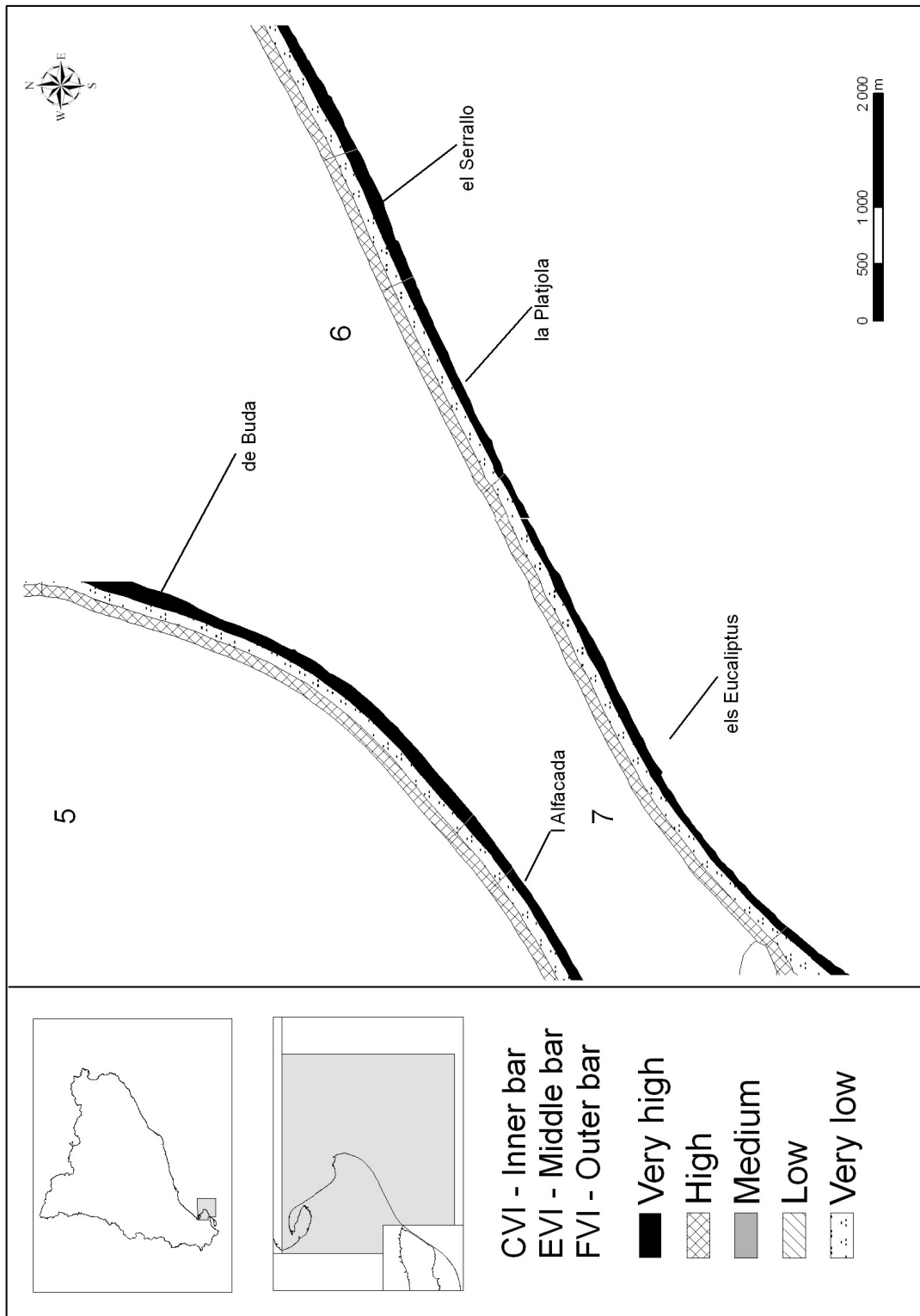


Figure B.19: Scheme of CVI, FVI and EVI for zone 7 under a class V storm (2 of 2).

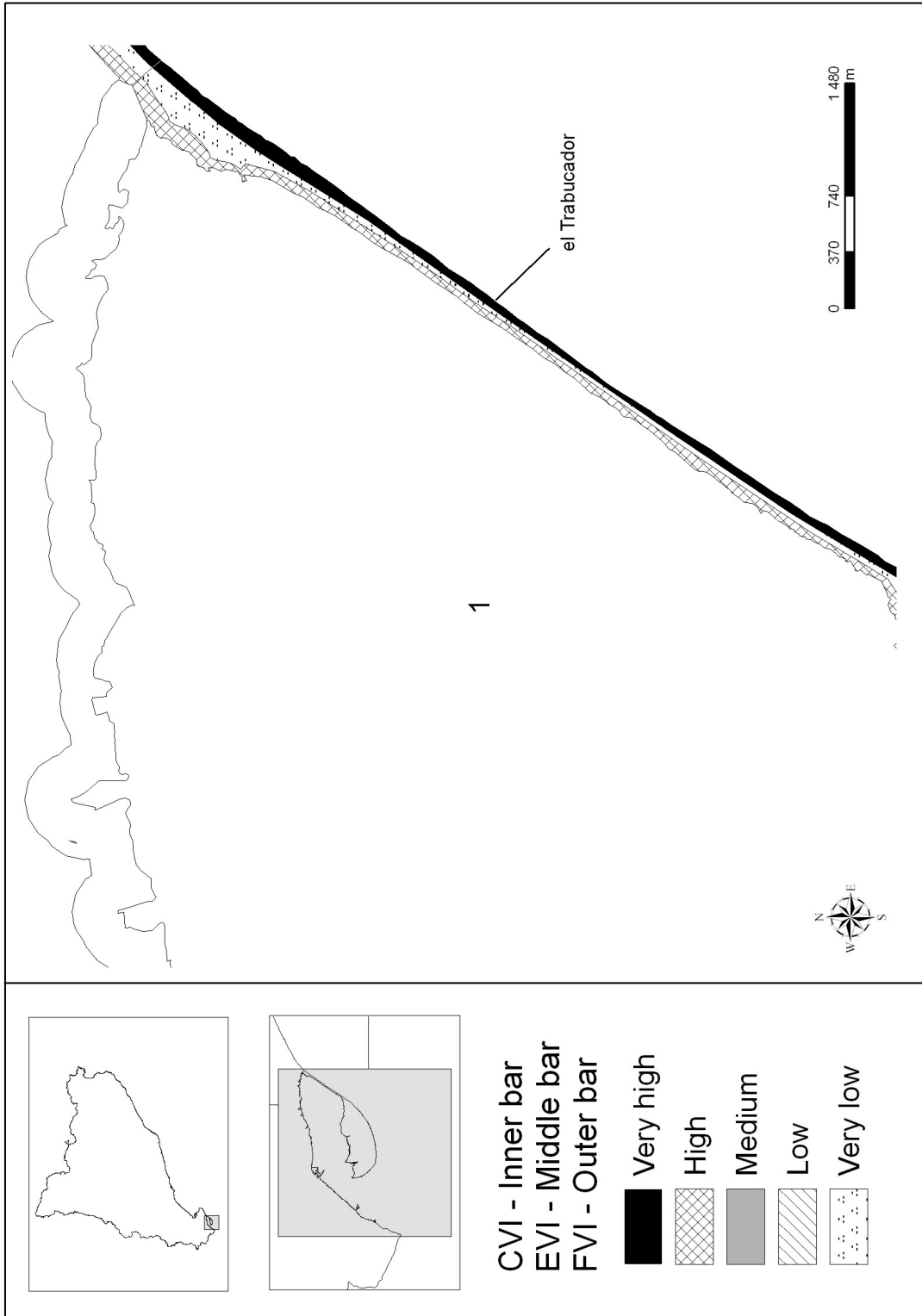


Figure B.20: Scheme of CVI, FVI and EVI for zone 8 under a class V storm (1 of 3).

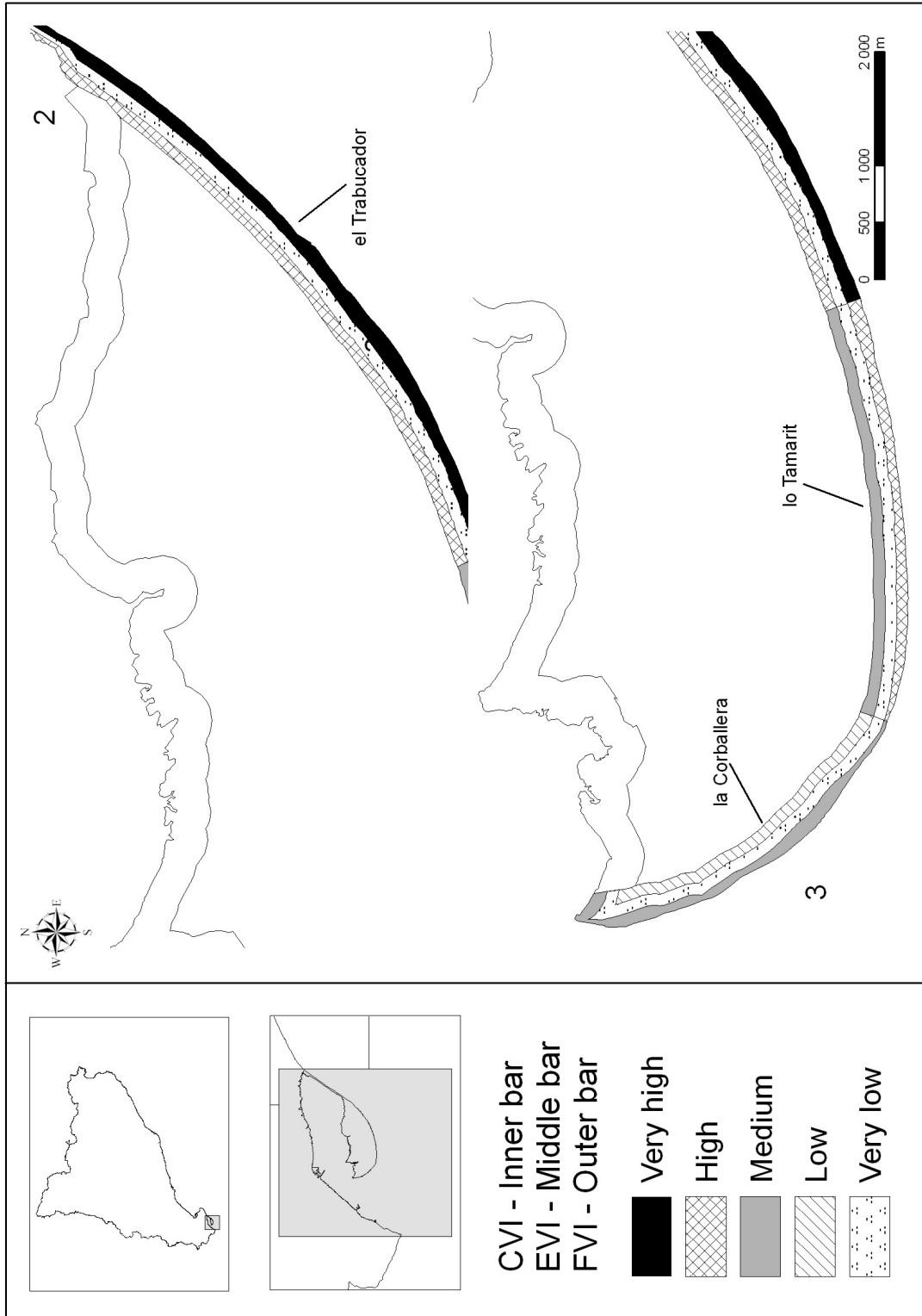


Figure B.21: Scheme of CVI, FVI and EVI for zone 8 under a class V storm (2 of 3).

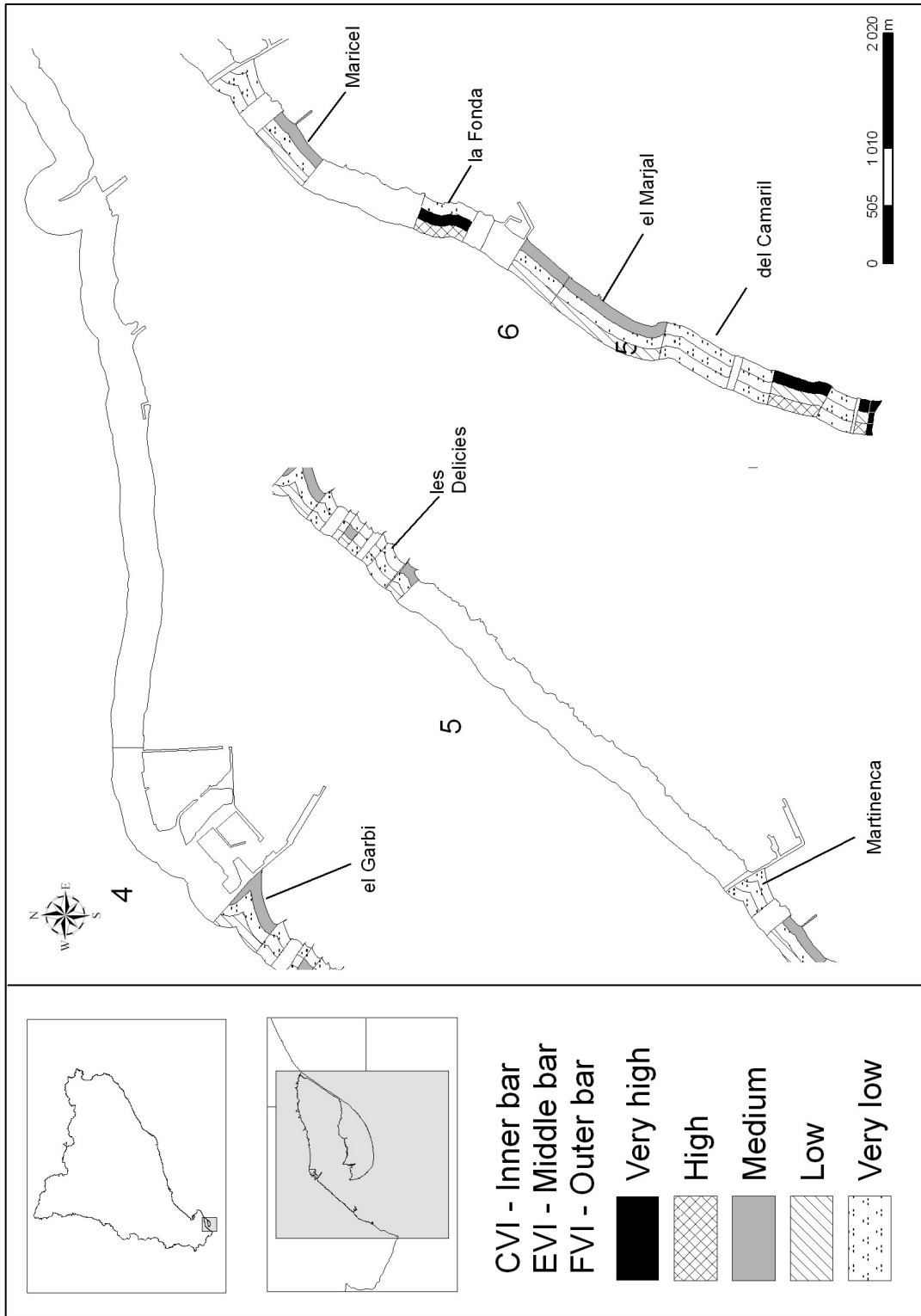


Figure B.22: Scheme of CVI, FVI and EVI for zone 8 under a class V storm (3 of 3).



