
COASTAL PHOTOGRAPH BY DAVID KAISER & KATHIE DIXON



PHOTO 182. *Collapse of the Sandbridge, Virginia, bulkhead.* **Upper photo:** Newly constructed steel sheet-pile bulkhead on 25 January 1989 at Sandbridge, Virginia. The bulkhead is constructed of 7.6-m long steel sheets which stand above 4 m. The base of the wall extends into a salt marsh peat layer. The wall has 5.5-m tie-backs, but no filter cloth. **Lower photo:** The same Sandbridge bulkhead on 10 March 1989. Failure is attributed, in part, to the peat substrate. (Photos: David Kaiser and Kathie Dixon, Department of Geology, Duke University, Durham, NC 27706).