

---

**COASTAL PHOTOGRAPH BY DOUGLAS R. GRANT**

---



**PHOTO 10.** Barrier beaches between drumlins, near Port Felix, Guysborough County, Atlantic coast of Nova Scotia, Canada. Presently rising sea level erodes till headlands and liberates gravel to build beach barriers across valleys. Drainage is thus impeded and freshwater ponds cause peat bogs to overlap forests. Since the ponds are at high tide level, the age of trees thus killed is a proxy for paleosealevel positions. The progress of submergence can thus be measured by dating the tree stumps when they reappear in the intertidal zone after the barrier has overridden the organic sequence. The rate of regression (3 to 5 m/y) and the rate of sea-level rise (0.3 cm/yr) accord well with the Bruun Rule.

[Douglas R. Grant: Geological Survey of Canada, 601 Booth Street, Ottawa K1A 0E8, Canada]