**Figure 3.33**
**Average ice thickness from ice charts, by year**

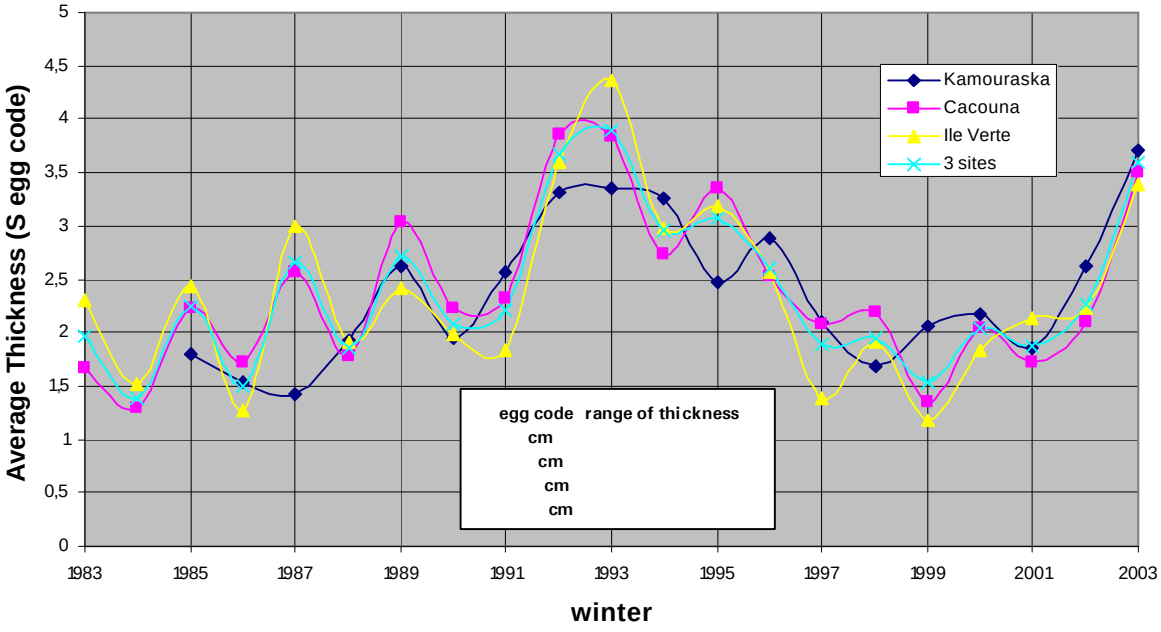



**Figure 3.34**
**Average floe size from ice charts, by year**

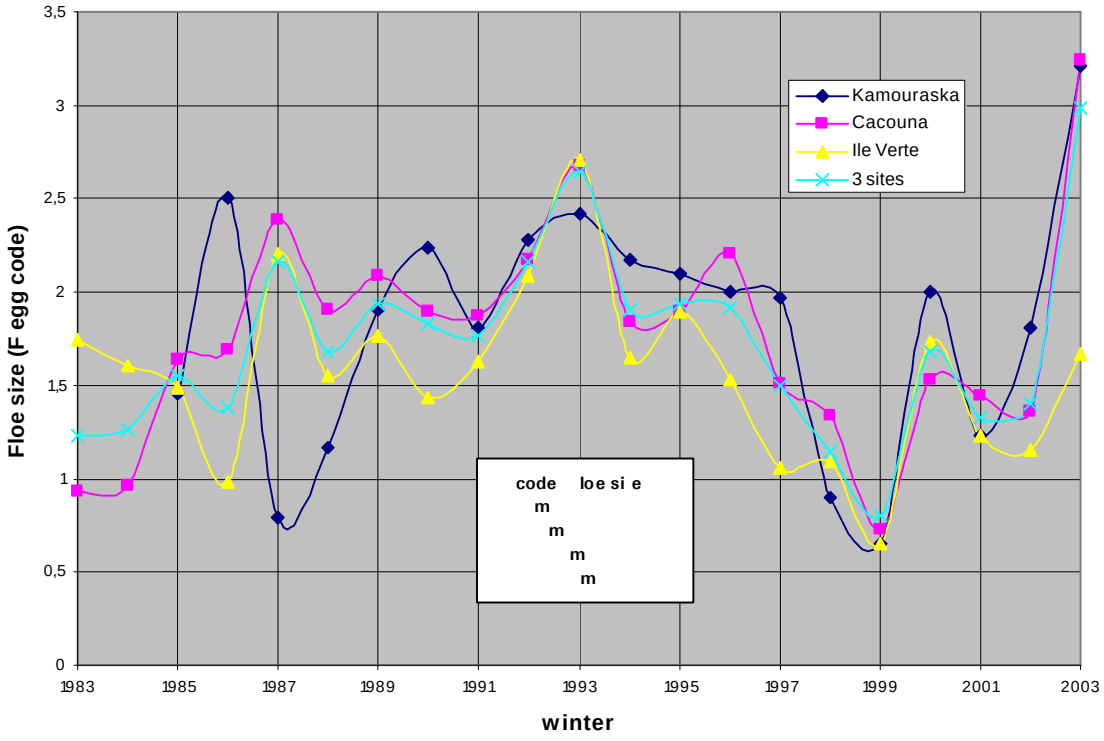


**Figure 3.35**
**Average size and average thickness from ice charts, by year – 3 "north" sites**

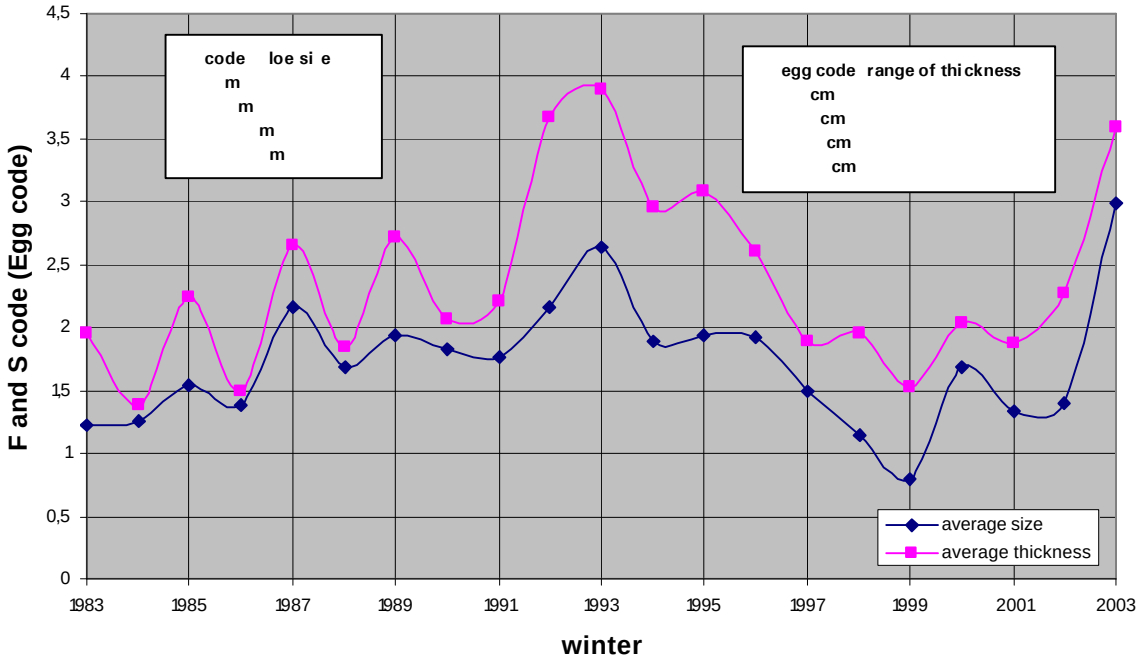



**Figure 3.36**
**Relationship between average size and average thickness from ice charts**
**3 "north" sites – 1983 to 2003**

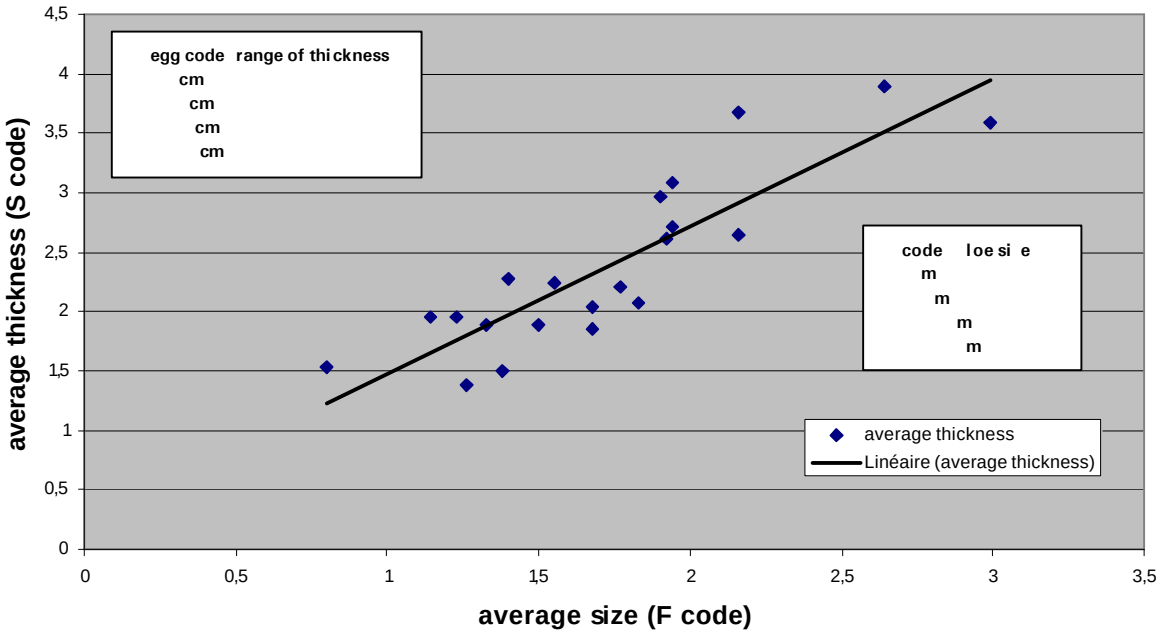


**Figure 5.1**
**Delimitation of wave climate zones in Estuary and Gulf of St. Lawrence**

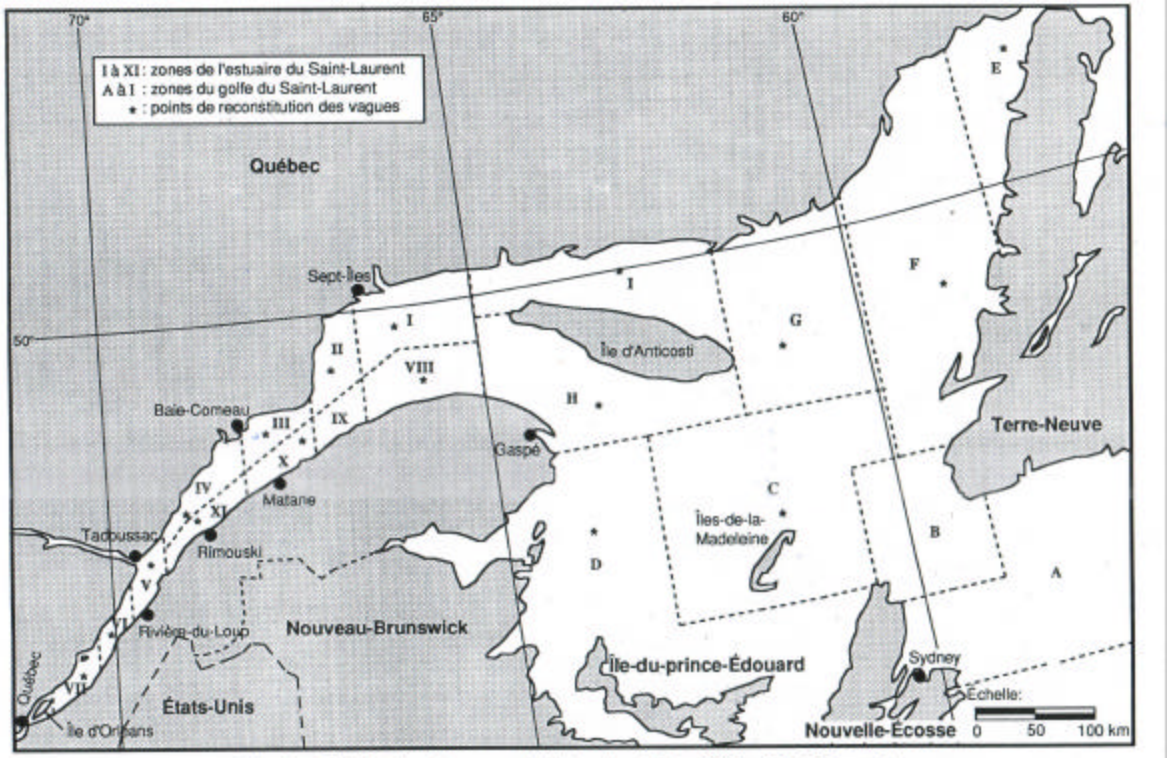



*Fig. 1 - Délimitation des zones de l'estuaire et du golfe du Saint-Laurent.*

**Figure 5.2 Wind roses at Île Rouge for winter months (Jan, Feb and March)**

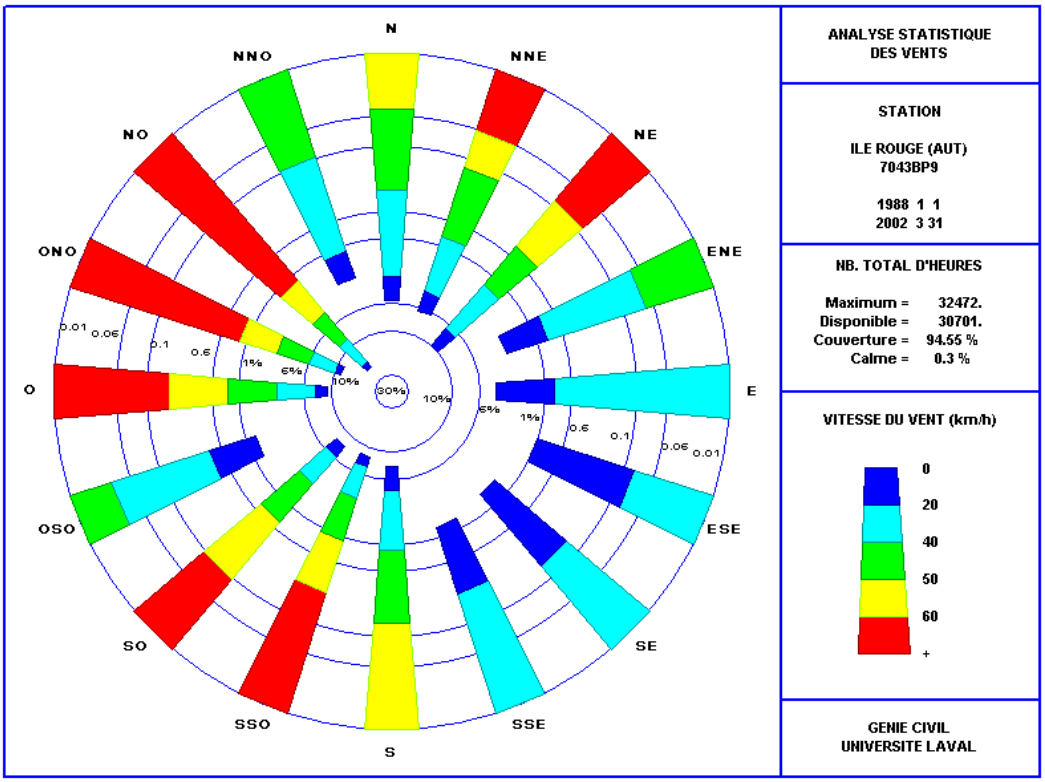



**Figure 5.3 Wind roses at a site in wave zone V for winter months (Jan, Feb and March)**

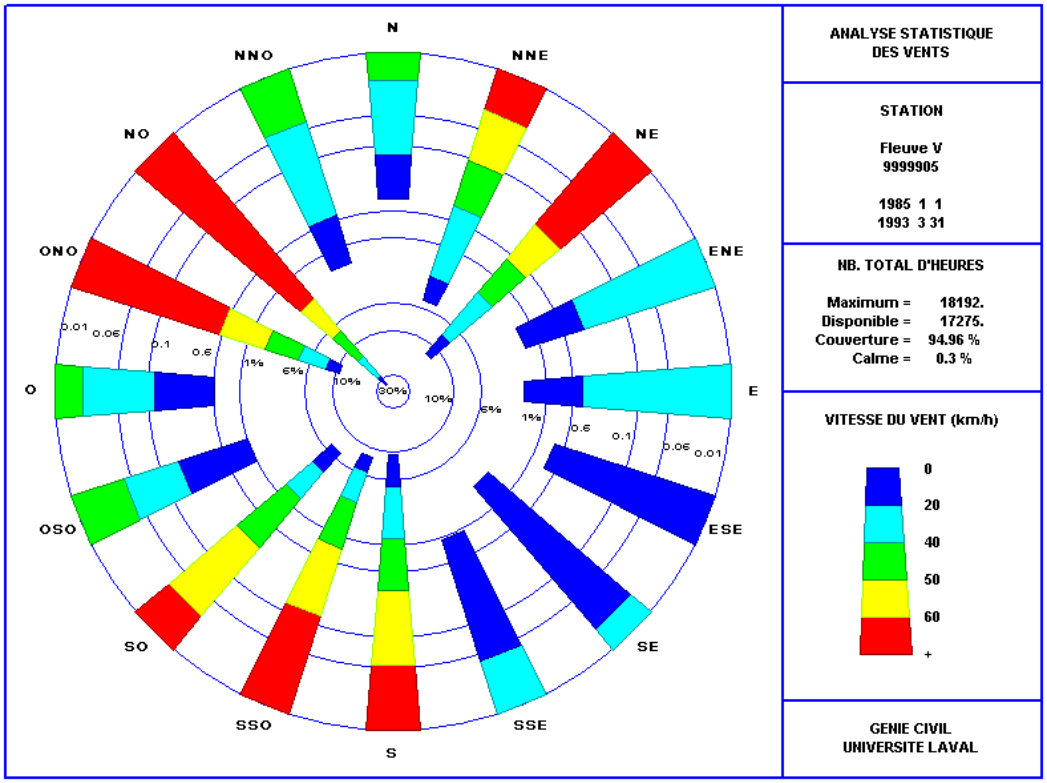


**Figure 5.4**
**Legend for climatological charts**
**(for figures 5.5, 5.6 and 5.7)**

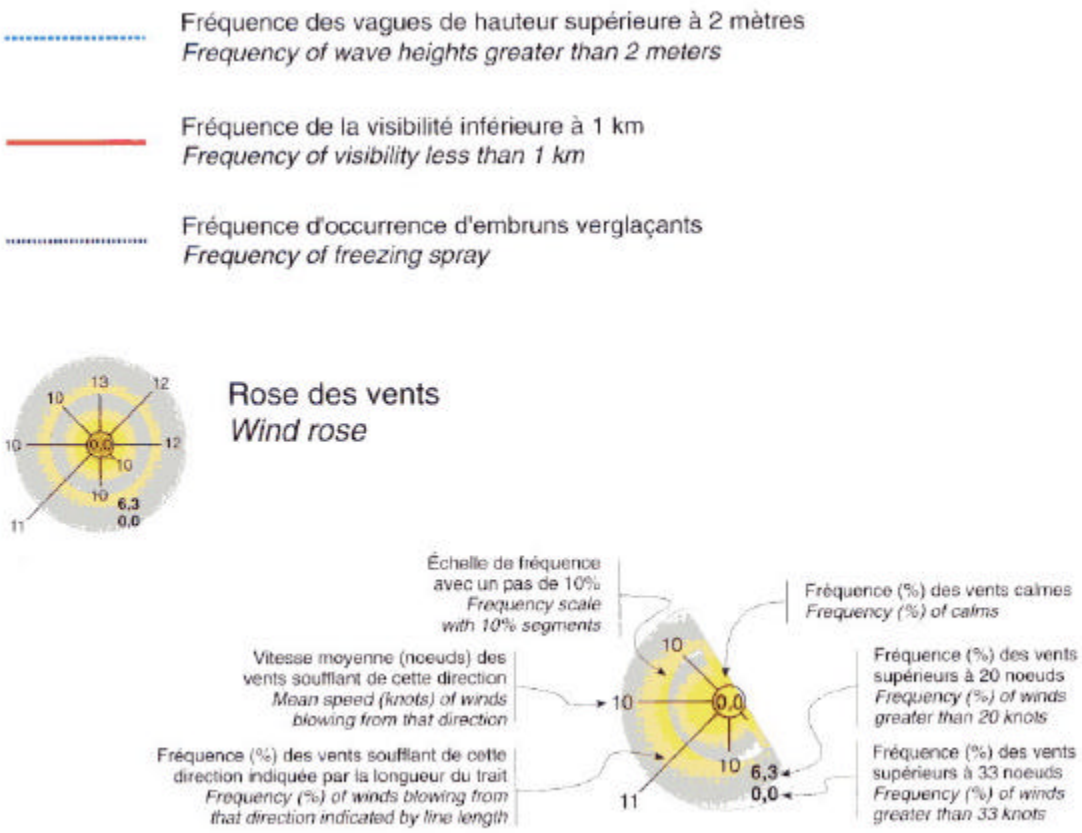


**Figure 5.5**
**Climatological chart of the Estuary of the St. Lawrence for January**

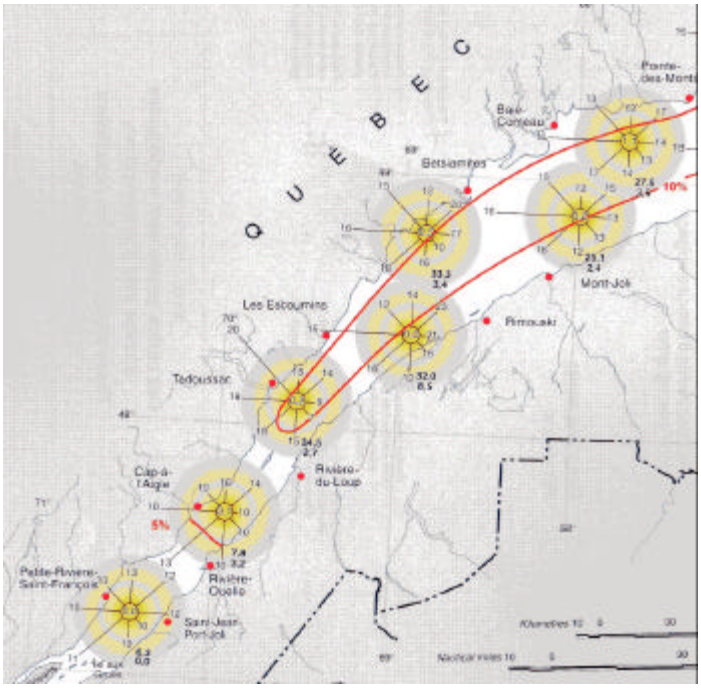



**Figure 5.6**
**Climatological chart of the Estuary of the St. Lawrence for February**

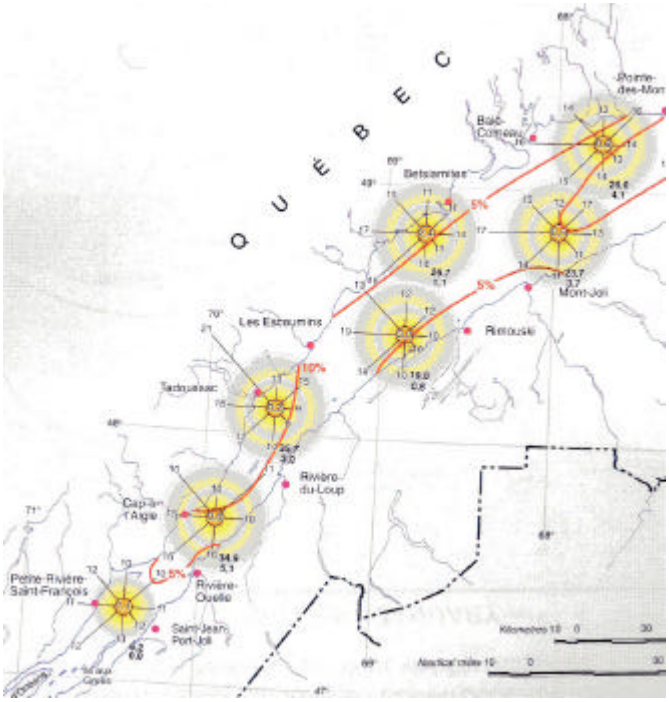


**Figure 5.7**
**Climatological chart of the Estuary of the St. Lawrence for March**

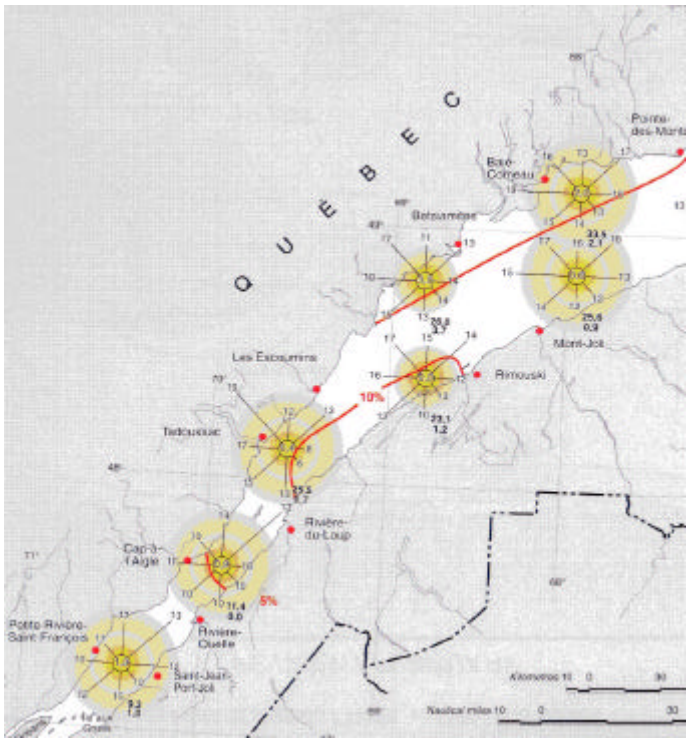


**Figure 5.8**
**Accumulated freezing-degree-days (FDDs) at selected meteorological stations, 1955 to 2003**

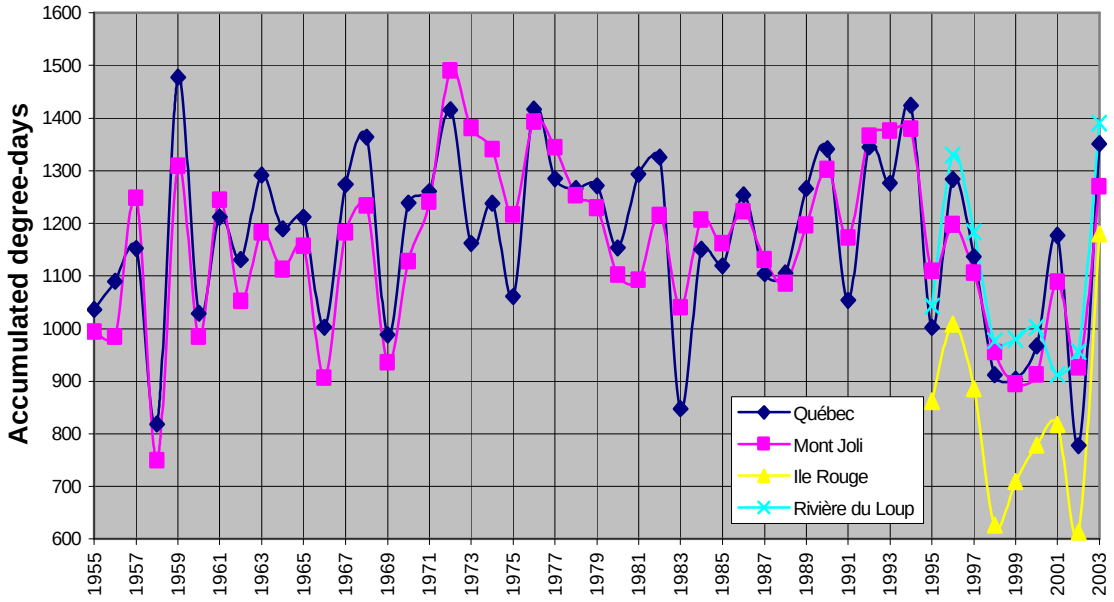


**Figure 6.1**
**Typical tidal curves - Estuary of the St. Lawrence River**

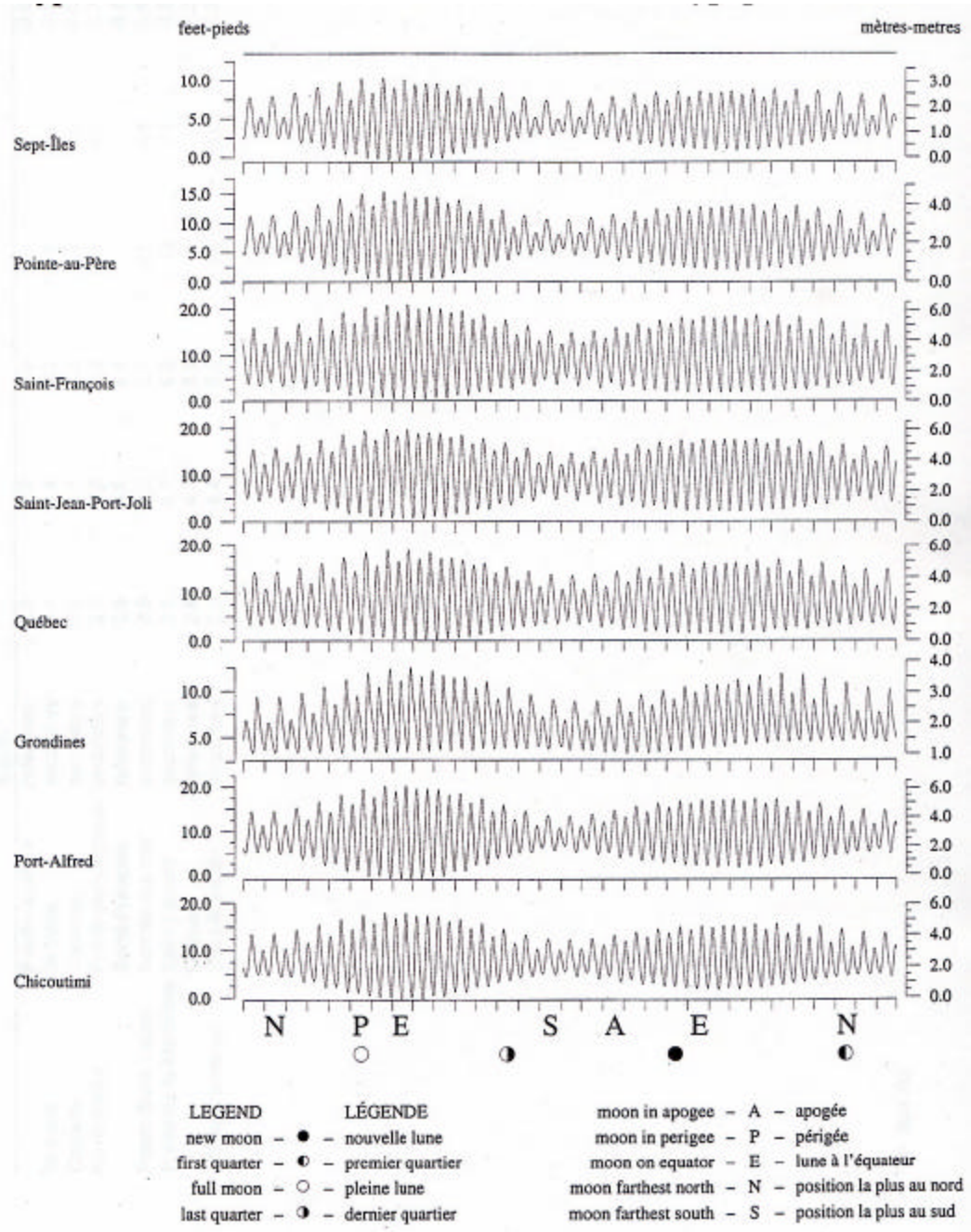
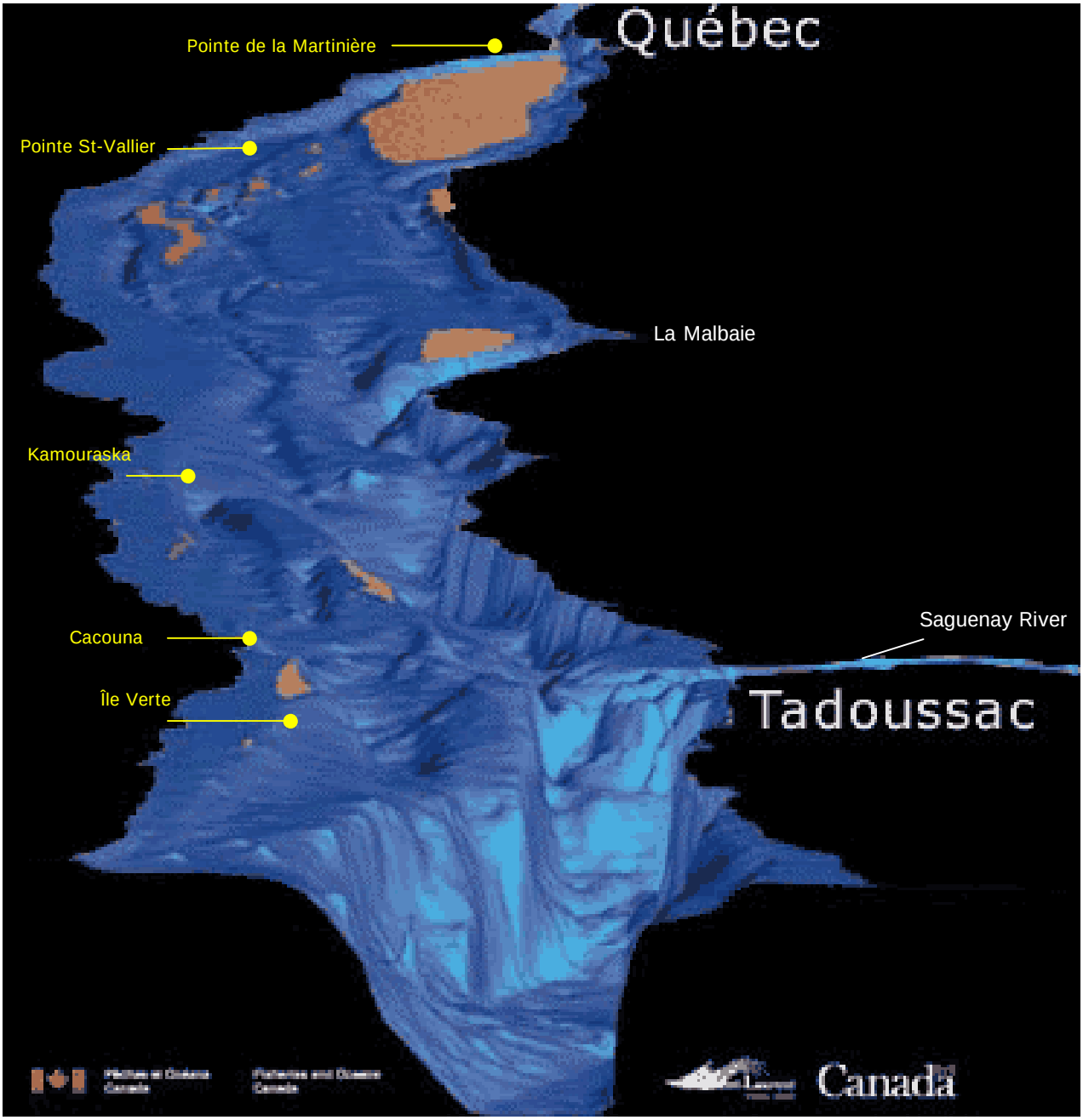


**Figure 6.2**
**Bathymetry of St. Lawrence Estuary from Quebec to Tadoussac**




**Source : Courtesy of F. Saucier and F. Roy, Institut Maurice-Lamontagne**

**Figure 6.3 Tidal current patterns at « South » sites of Pointe-de-la-Martinière and Pointe-Saint-Vallier, 3 to 4 hours after high water at Québec**

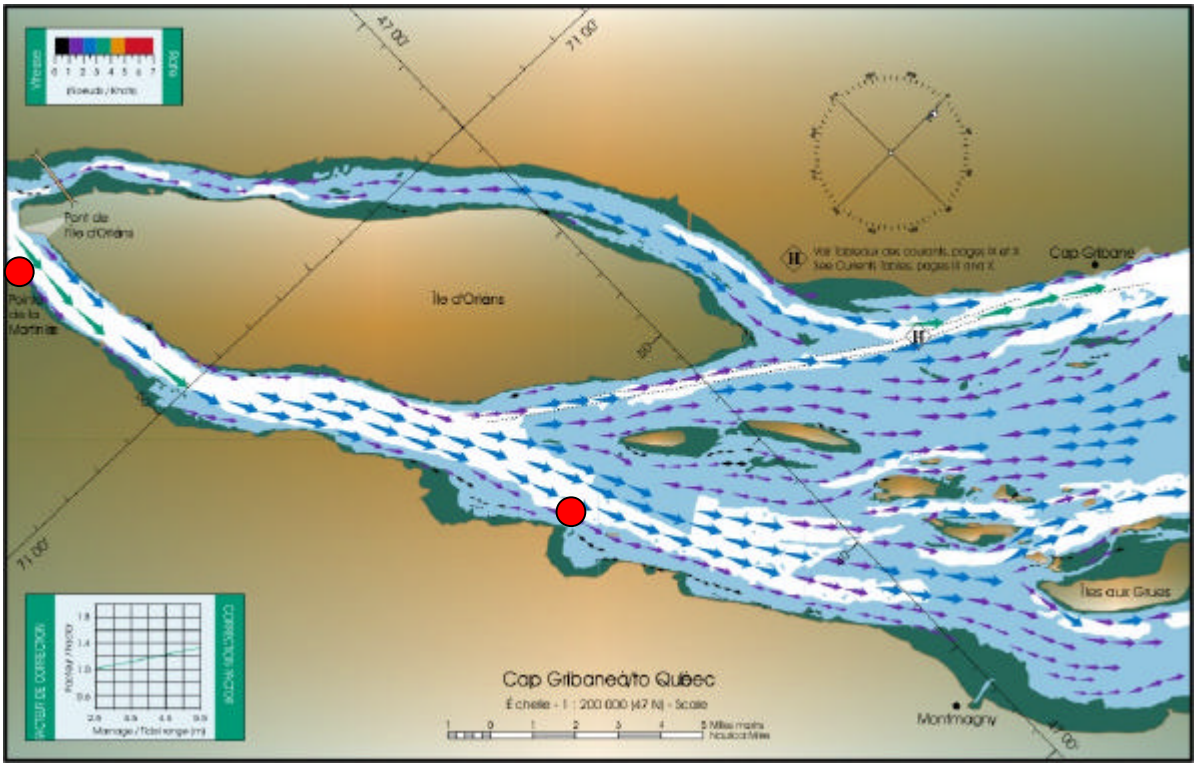



**Figure 6.4 Tidal current patterns at Kamouraska, 0 to 1 hour after low water at Pointe-au-Père**

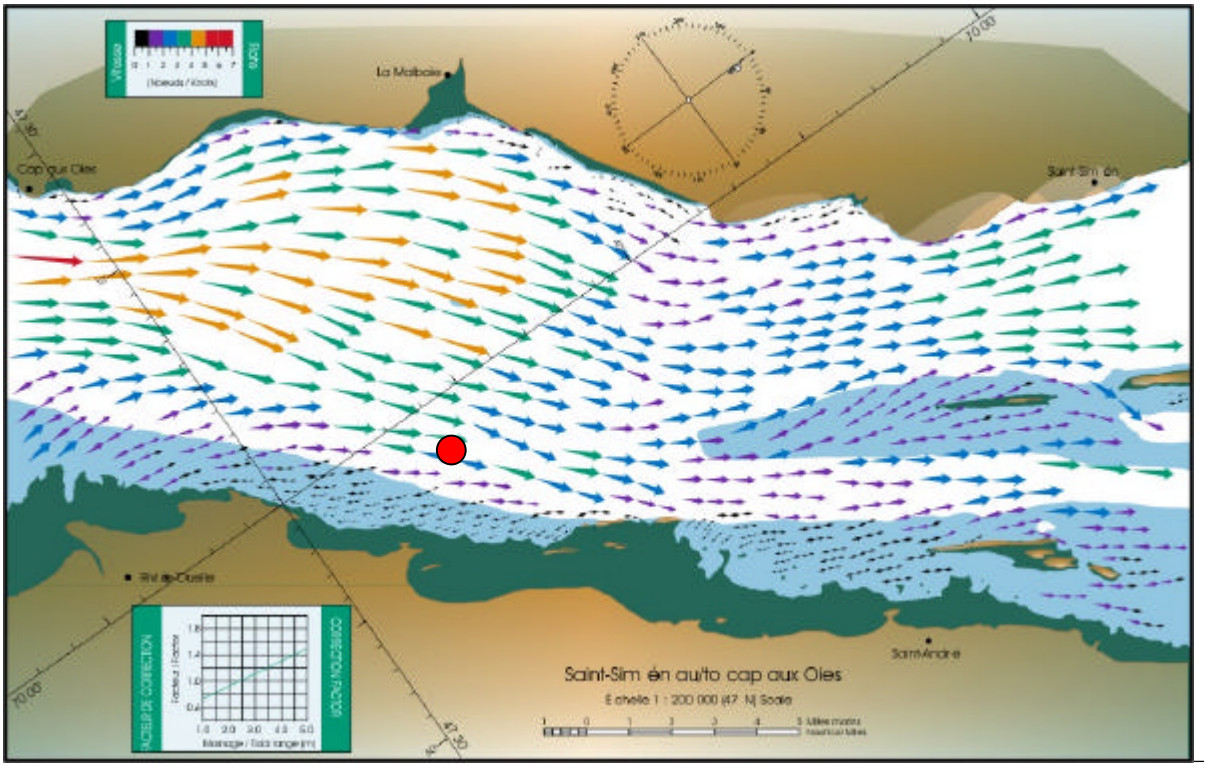


**Figure 6.5 Tidal current patterns at Cacouna and Île Verte, 0 to 1 hour after low water at Pointe-au-Père**

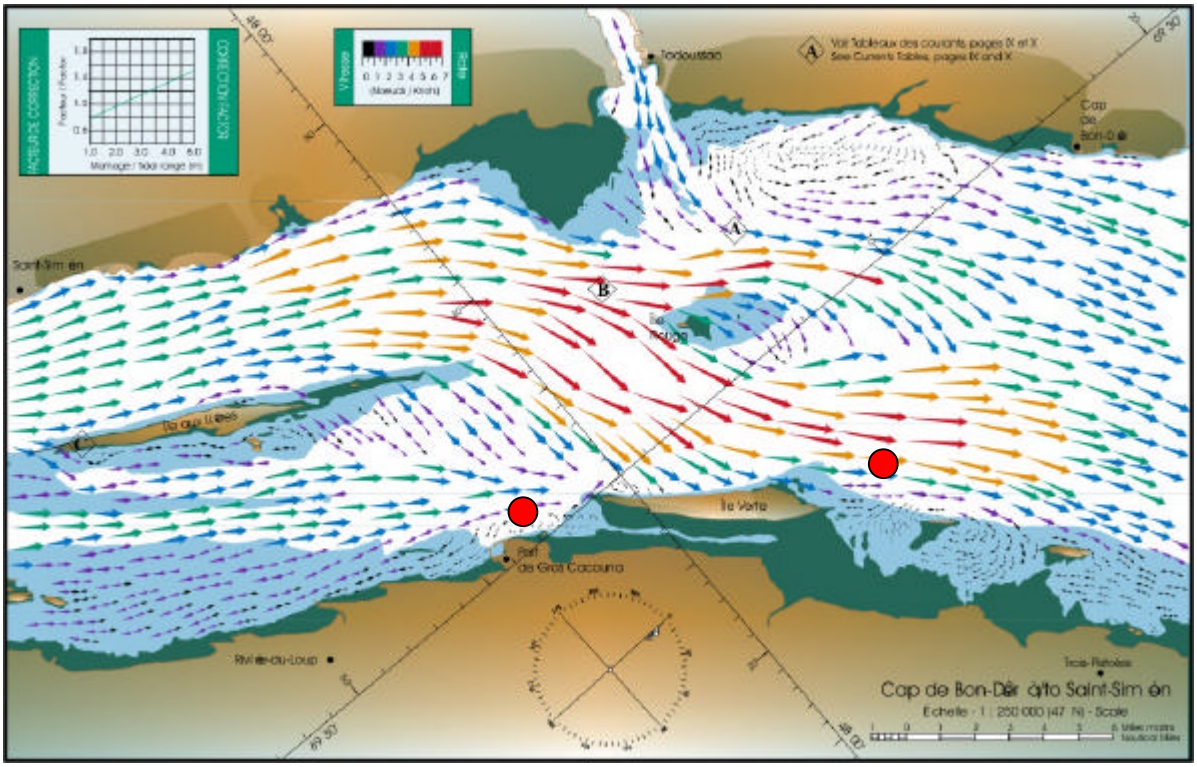



**Figure 6.6 Tidal current patterns at Gros Cacouna and Île Verte, 3 to 2 hours before high water at Pointe-au-Père**

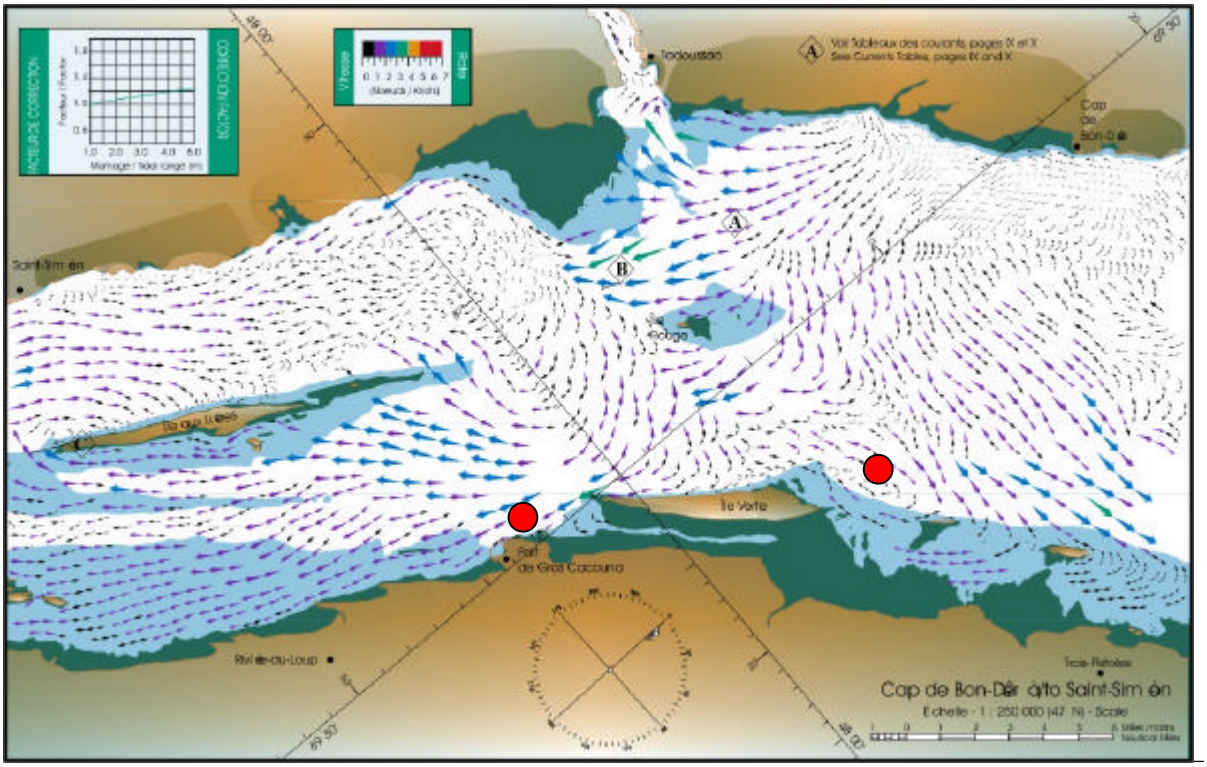


**Figure 6.7 Tidal current patterns at Cacouna and Île Verte, 1 to 0 hour before high water at Pointe-au-Père**

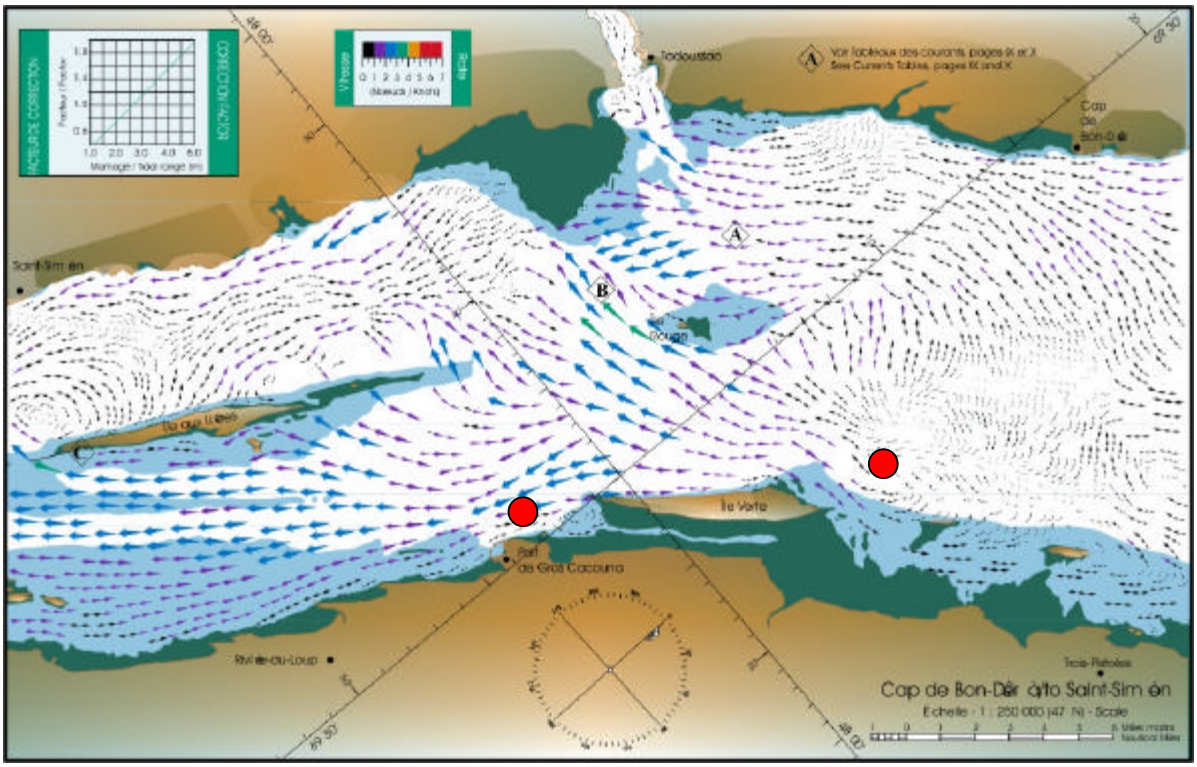


**Figure 8.1**
**Escort and De-icing – Canadian Coast Guard, Laurentian Zone**
**Statistics of operational program (1990-2002)**

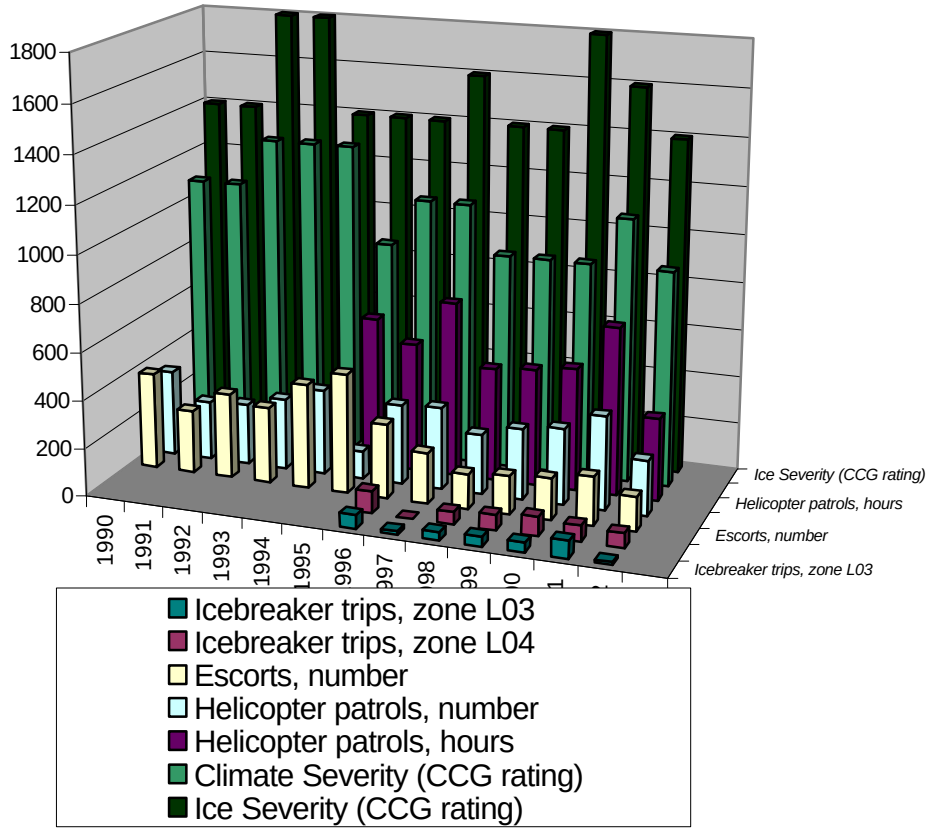


**Figure 8.2a**
**Ranking of winters from weather data at Mont-Joli**

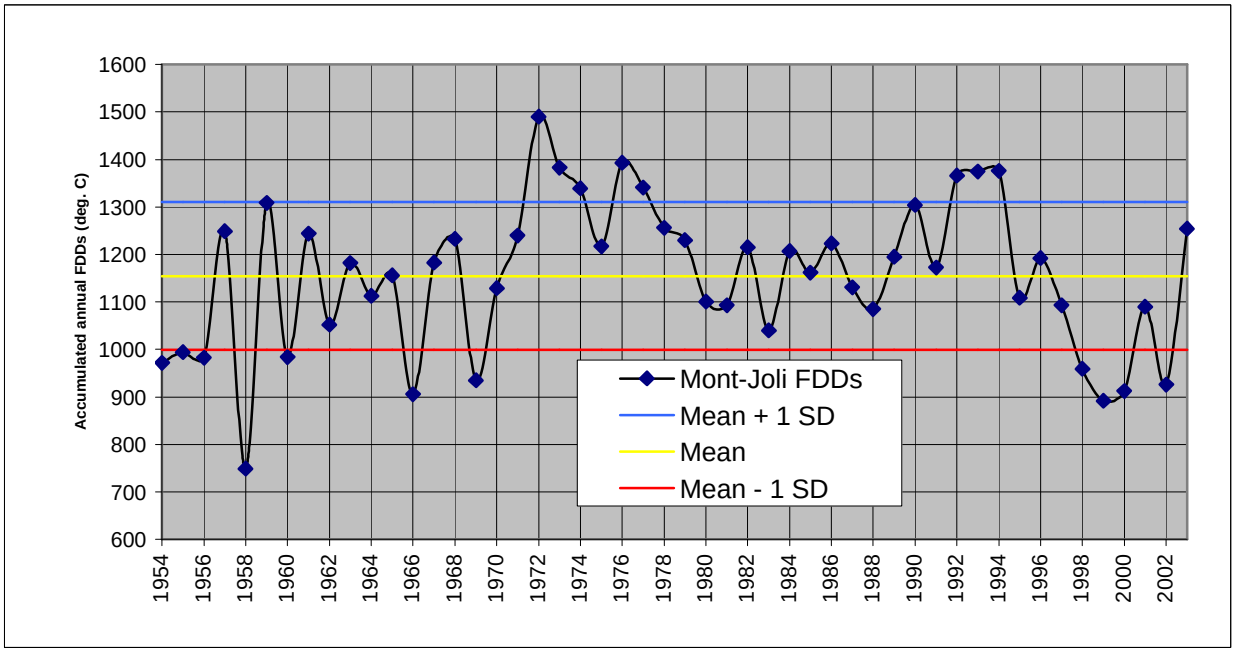



**Figure 8.2b**
**Ranking of winters from weather data at Québec**

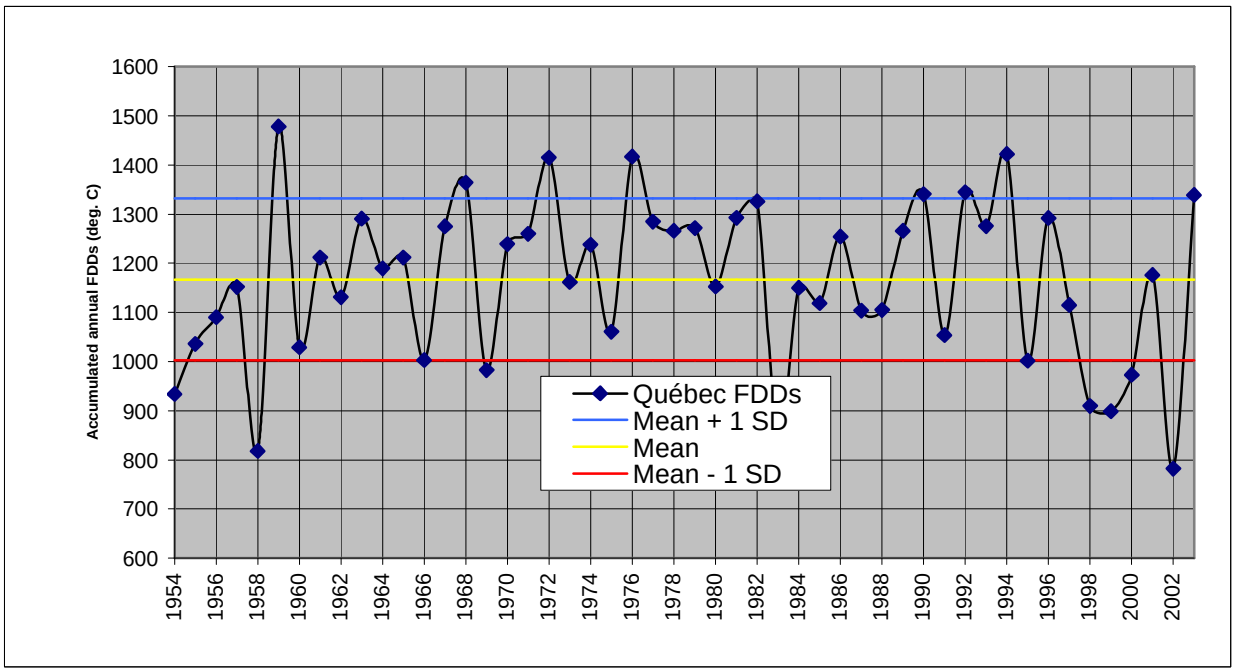


**Figure 8.3**
**Ranking of winters from ice thickness on ice charts**

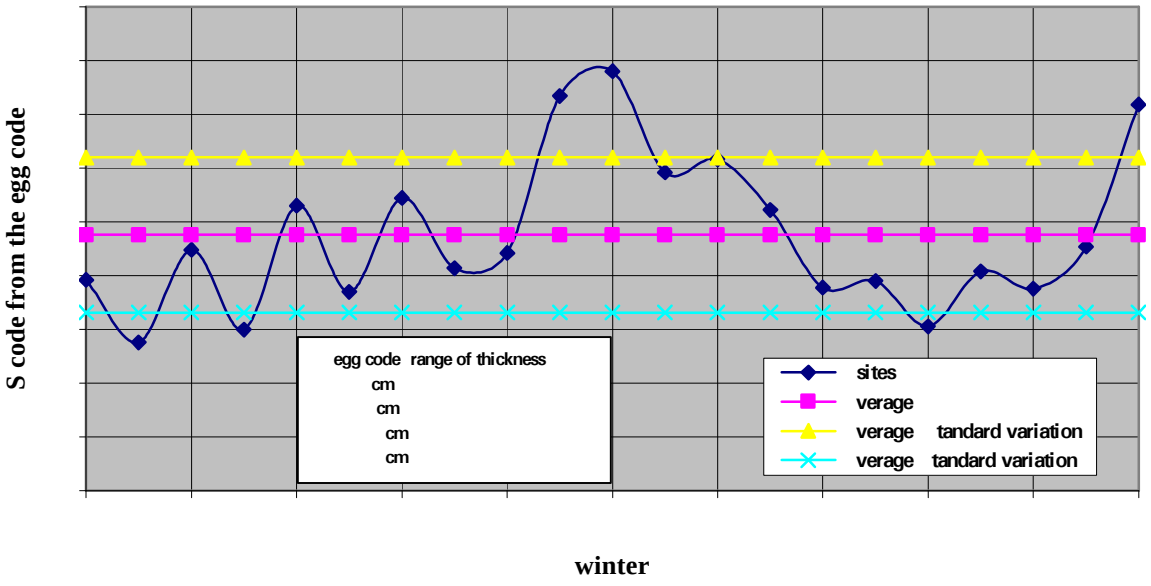



**Figure 8.4**
**Ranking of winters from floe size on ice charts**

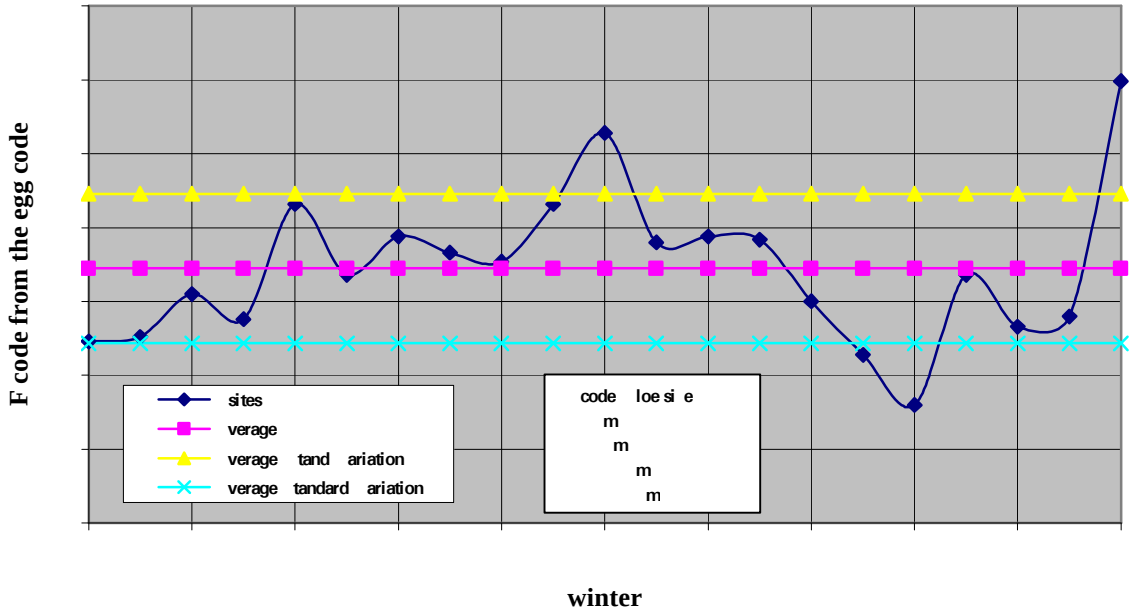


**Figure 8.5**
**Zones for ice conditions statistics in Estuary and Gulf of St. Lawrence**

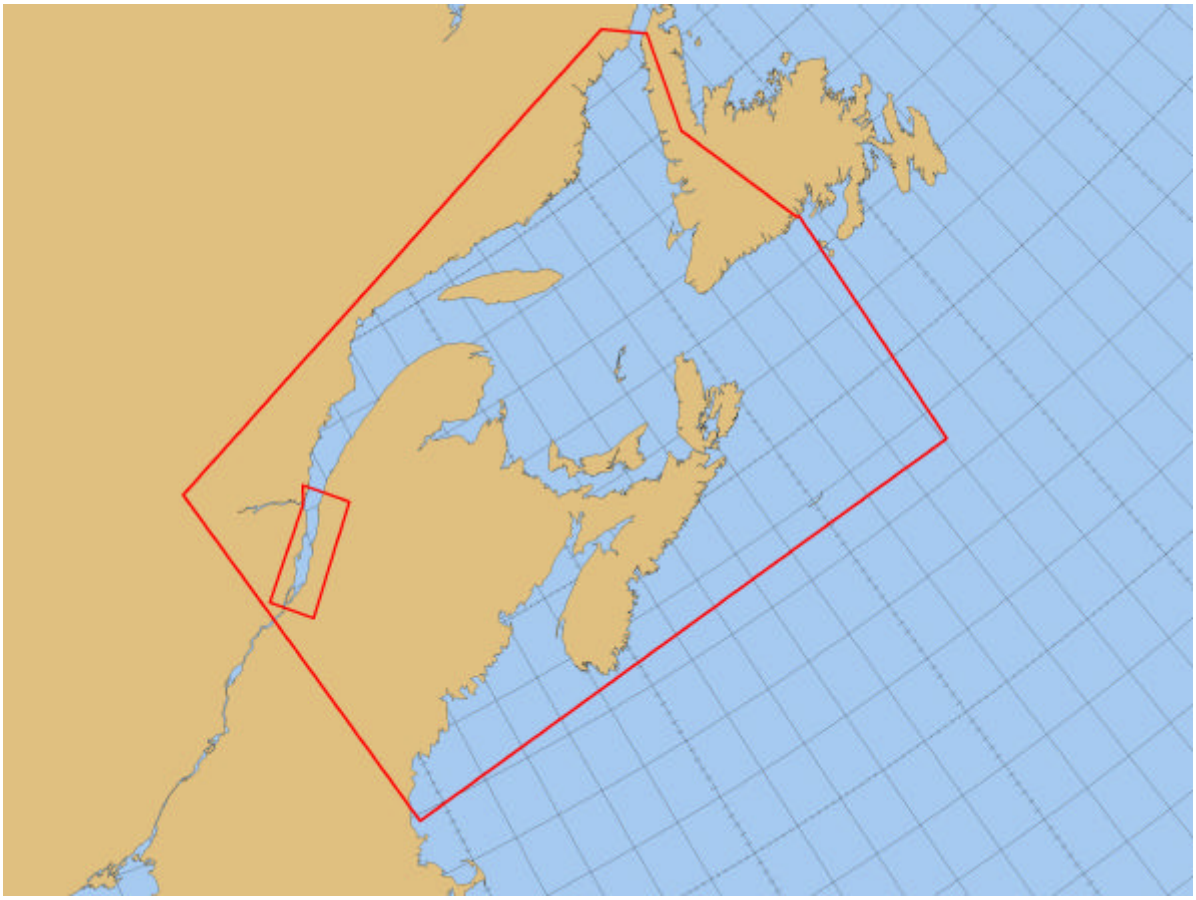


**Figure 8.6**
**Total Accumulated Seasonal Ice Coverage – Gulf of St Lawrence**

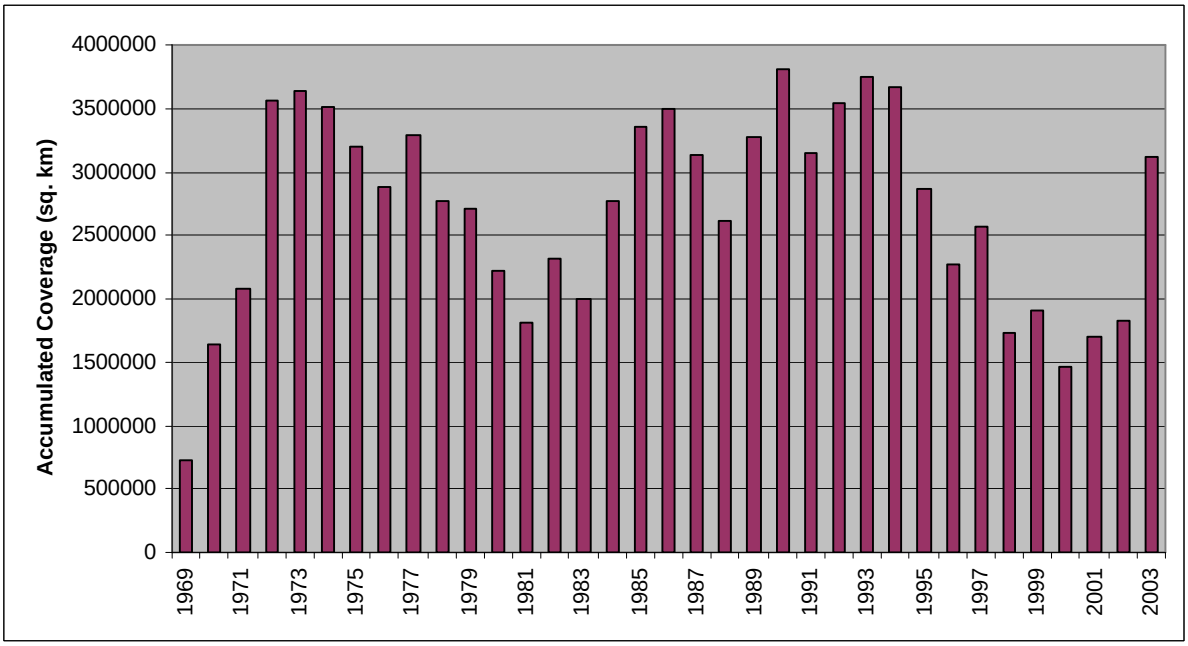



**Figure 8.7**
**Ranking of winters from volume of ice produced – Gulf of St. Lawrence**

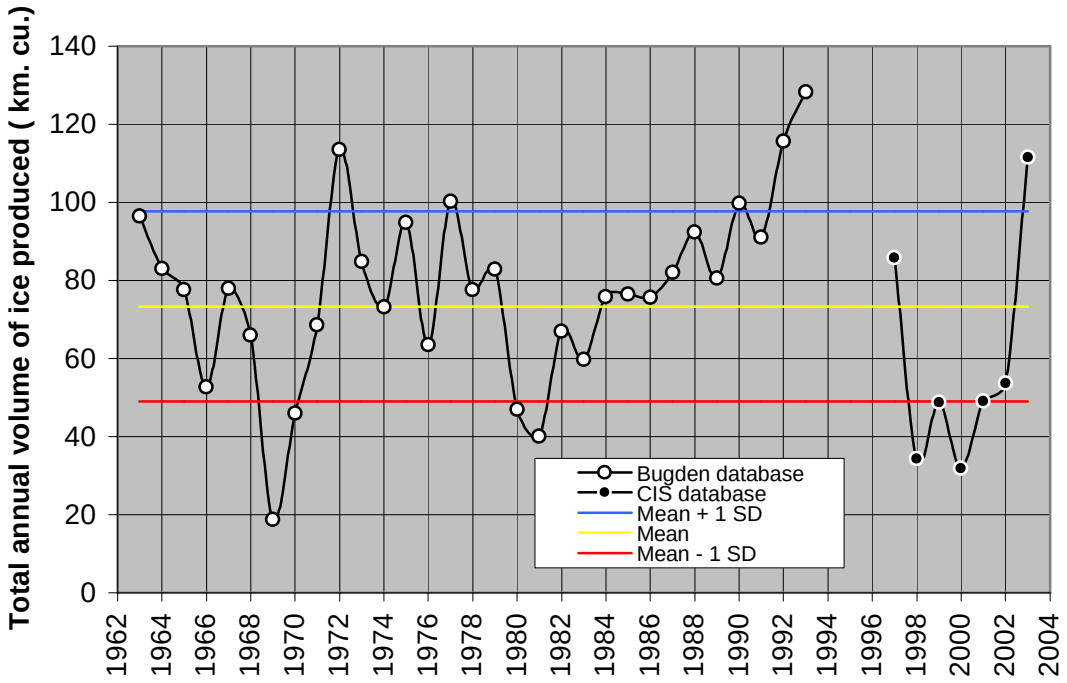


**Figure 9.1**
**Cumulated freezing degree-days (FDDs) – selected seasons and locations**

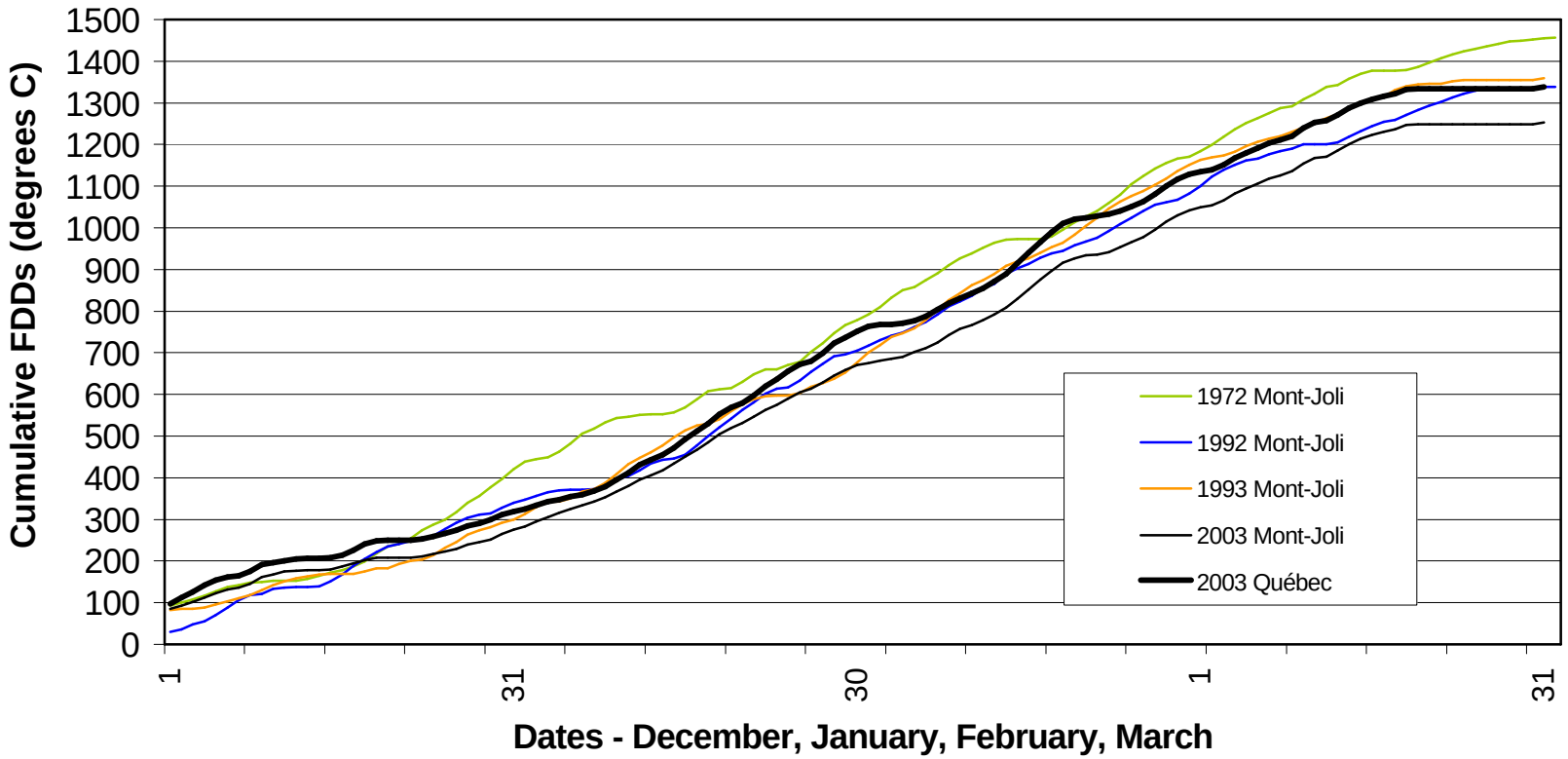


**Figure 9.2**
**Daily average wind speed at Mont Joli during winter 2003**