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## **Arctic and Antarctic sea ice: differences in ice types and processes**

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### **Abstract**

Sea ice in the Antarctic region is formed under conditions different than those experienced in the Arctic, and is usually exposed to different meteorological, glaciological and oceanic factors throughout its life time. These factors are reflected in differences in ice types and processes between the two regimes. The presentation highlights those differences and underscores key features of the Antarctic sea ice that affects observations from satellite data. This will lead to identification of challenges that should be addressed while developing methods to map ice types in the Antarctic regime. Examples of satellite microwave data will be included.