Antarctic meteorological data is provided via a variety of methods and frameworks to serve a diverse community. These data sets are critical for operational use such as weather forecasting. Case studies conducted in post event review by forecaster or by students learning about Antarctic phenomena rely on these data. Of course, research activities in both the meteorological as well as non-meteorological disciplines (such as glaciology, biology, etc.) require meteorological information. As a result of the diverse data types, data sources and user communities, various means with differing objectives are employed to provide and distribute meteorological data. This presentation will review the existing Antarctic meteorological data resources, and distribution methods. Historical efforts and goals, along with present day constraints impact the continued evolution and stewardship of these systems. Recommendations and suggestions for maintaining these vitally important resources and capabilities will be outlined.