

Fig.2. The Landsat-1 MSS image acquired on Feb. 4th, 1973, Resolution: 80 meters, Gridline interval: 10Km*10Km

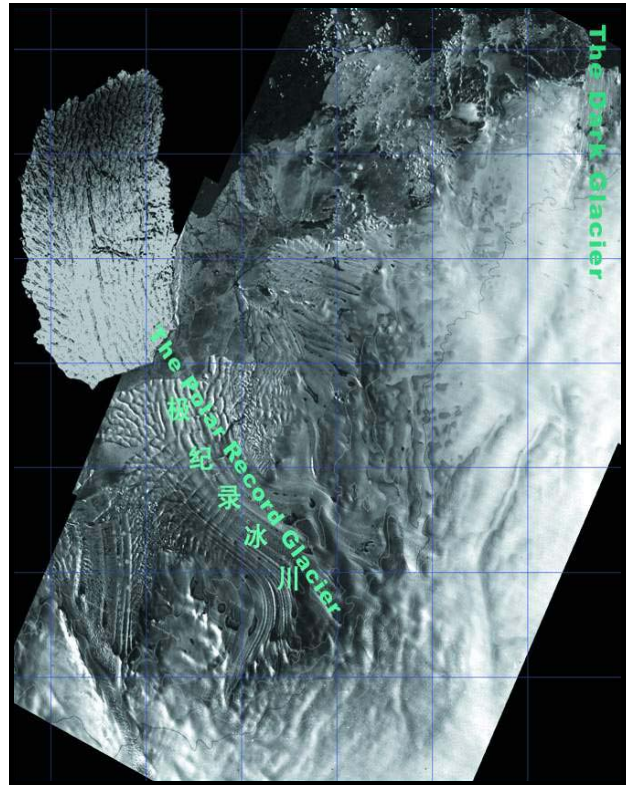


Fig. 3. The Landsat-4 TM image acquired on Jan. 20th, 1990, Resolution: 30 meters, Gridline interval: 10Km*10Km

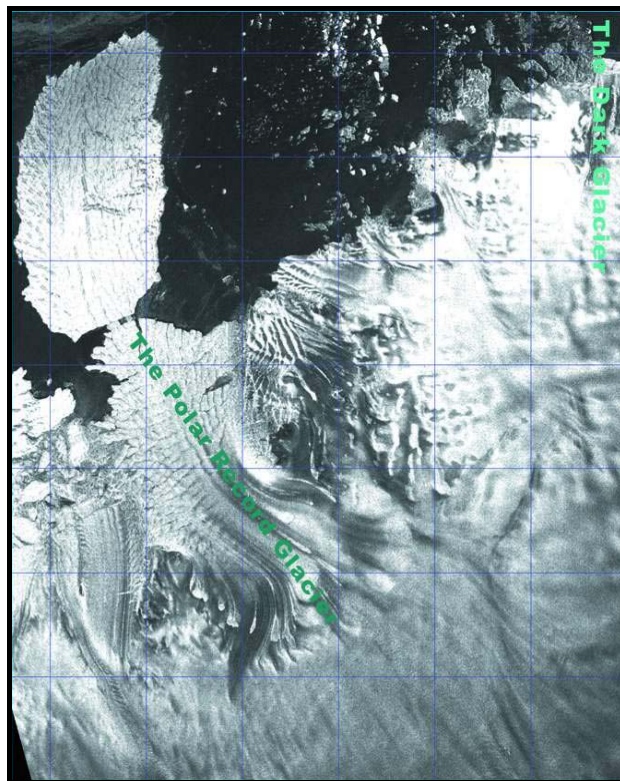


Fig.4. The Radarsat-1 SAR image acquired on Sep. 14th, 1997, Resolution: 50 meters, Gridline interval: 10Km*10Km

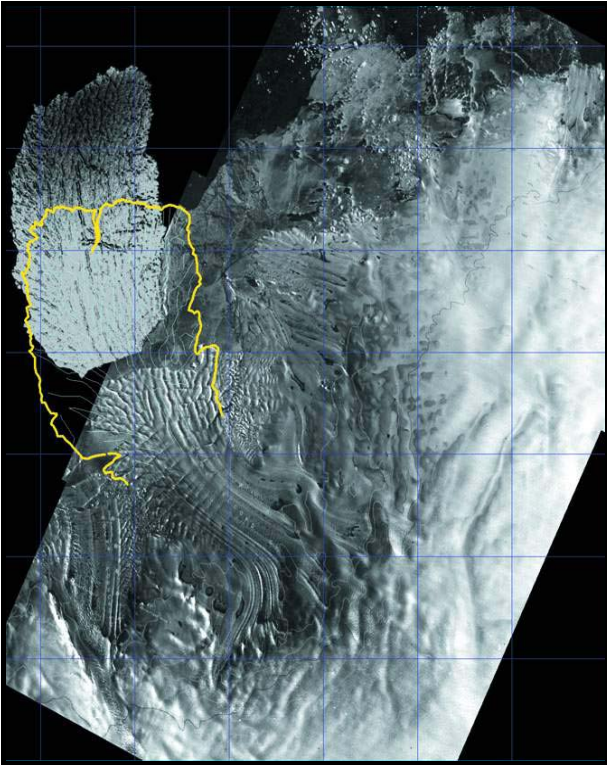


Fig.5. The margin outline of the Polar Record Glacier in 1973 overlays the image acquired in 1990. The motion distance of the Polar Glacier is 13.26 Km. The average ice velocity is 781 meters per year, namely, 2.14 meters per day.

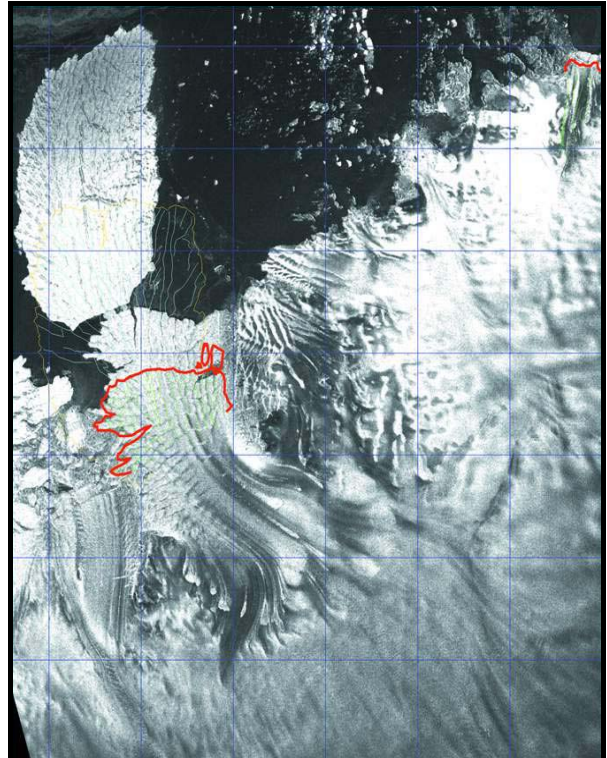


Fig.6. The margin outline of the Polar Record Glacier and the Dark Glacier in 1990 overlays the image acquired in 1997. The motion distance of the Polar Record Glacier is 6.38 Km. The average ice velocity is 834m per year, namely, 2.29 m per day. The motion distance of the Dark Glacier is 1.46 Km. The average ice velocity is 191 m per year, namely, 0.52 m per day.

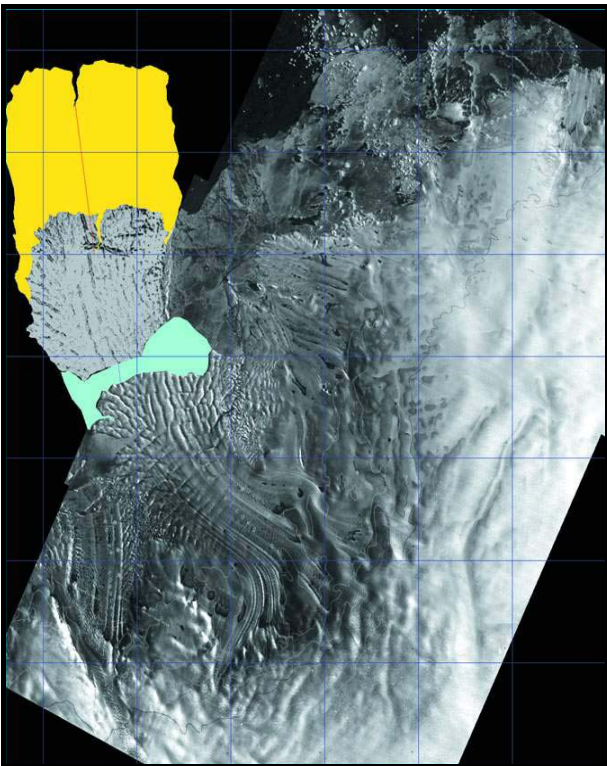


Fig.7. From 1973 to 1990, the outlet area of the Polar Record Glacier is 211 Km², 12.44 Km² per year. The average flux is 1.87 Km³ per year.

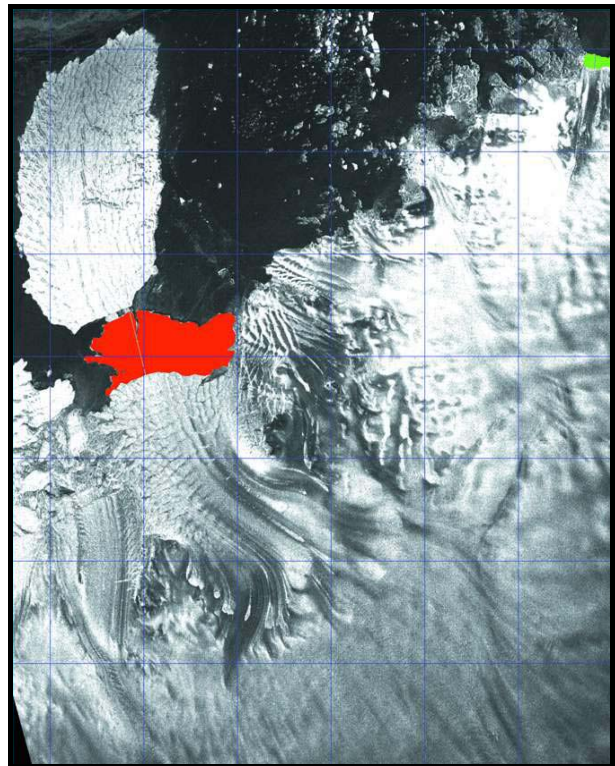


Fig.8. From 1990 to 1997, the outlet area of the Polar Record Glacier is 79.34 Km², 10.37 Km² per year; the average flux is 1.56 Km³ per year. The outlet area of the Dark Glacier is 3.61 Km², 0.47 Km² per year; the average flux is 0.0388 Km³ per year.