

SCIENCE 2007 STUDENT EDITION CHAPTER BOOKLET GRADE 3 CHAPTER 06 WEATHER

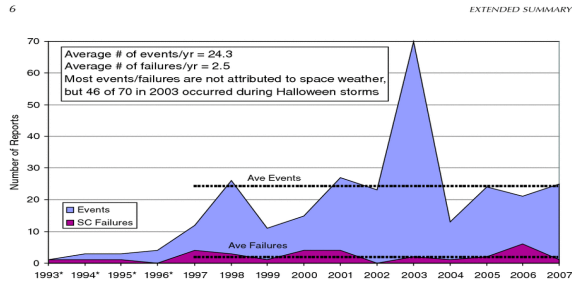


Figure 1. Telecommunication satellite anomalies and failures over a 14-year period. (Data for the years 1993-1996 are less extensive than for the period from 1997 on). The annual probability of an anomaly is around 10 percent, and the annual probability of a failure is about 1 percent. The big spike in 2003 reflects the anomalies that occurred during the October-November 2003 "Halloween" storms, which did not produce a significant rise in satellite failures. Around 250 commercial telecommunications satellites are operating in geosynchronous orbit. At a cost of roughly \$300 million each, this fleet represents a \$75 billion investment and generates an estimated annual revenue stream of more than \$250 billion (\$100 million per satellite per year). (Image courtesy of Michael Bodeau, Northrop Grumman.)

environment where the anomaly occurred as well as climatological information helps operators determine whether or not the anomaly was caused by space weather.

Airline Operations

In the late 1990s, airline companies began to fly polar routes between North America and Asia in order to avoid strong wintertime headwinds and thus to reduce travel time (Figure 2). Decreased travel time makes it possible to carry less fuel, thus saving costs, and allows the airlines to transport more passengers and cargo, increasing revenues. Because of the clear economic benefits, the use of polar routes has grown dramatically over the last decade. In 2007, thirteen carriers flew polar routes for a combined total of almost 7300 polar flights, an increase of nearly 2000 flights from the prior year.

The transpolar routes take aircraft to latitudes where satellite communication cannot be used, and flight crews must rely instead on high-frequency (HF) radio to maintain communication

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