# System Capacity

Much of the changes in the GOES DCS have been implemented to maintain and improve capacity has the system supports almost 30,000 operating sites reporting once an hour.

Some operating points as shown by some NOAA documentation:

1. 2000 sites
2. 9000 sites
3. 28000 sites

Message daily throughput is about 650000 messages per day July 16, 2016.

Viewed from use of 10-second windows and 400 300 BPS channel availability yields a system message capacity of 3 million per day. At 5-second window assignments this is 6 million per day. Viewed in this way the current GOES DCS is at 10 to 20% capacity as of July 2016. Approximate DCP capacity would equate to 100,000.

Modest improvements in message design could double these values.