

# GALAXY<sup>®</sup>

## Case Study: Franklin Expedition & Video Streaming

**GALAXY** Broadband Communications provides Enterprise grade video, VoIP, and just about any other type of web surfing over their Ka, Ku, and C-band network in North America.

Internet video broadcasting consists of a continuous data stream, which requires dedicated bandwidth (also known as Committed Byte Rate) in order to experience this with a guaranteed voice and video quality. By guaranteed, **GALAXY** means a presentation that is crystal-clear, in time, and without jitter. The **SCOUT** via Galaxy's Sky**DATA** network is able to uplink feeds up to 500Kbps.

For video feeds requirements above 500Kbps, **GALAXY'S** Sky**CARRIER** service is highly recommended as it provides the best means of ensuring consistent bandwidth delivery at all times for a video stream. Video feeds can scale as high as 5Mbps assuming the link budget requirements are met. **GALAXY** satellite modems and equipment employs built-in compression, QoS, and transmission acceleration technology to provide an internet connection that offers consistent service speed and dependability.

### Current Service Plan:

- Speed: 5 Mbps download X 2.5 Mbps upload
- Throughput: 200 GB download X 50 GB upload
- 800 Kbps CIR

### Equipment:

- 0.98m 2-watt **SCOUT** system

### Challenge:

Video streaming of the sunken HMS Erebus from Gjoa Haven, Nunavut to Ottawa, Ontario (3,000 km.)

### Solution:

**GALAXY'S** portable quick-deploy **SCOUT** satellite provides a dependable CBR (Committed Byte Rate) for video connectivity, which enables seamless broadcast from the remote site to the internet.

### Result:

Successful underwater video stream of the sunken HMS Erebus, where the video was encoded through a hardware encoder, and then fed through the **GALAXY SCOUT** to the destination IP address.

**GALAXY** does not recommend consumer grade satellite for this purpose as they do not support video streaming with any degree of success. They simply do not offer the technology or service consistency required to stream video effectively.



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