**Weather Satellite**

1. **Data collection**

The satellite will collect temperature, pressure, humidity, wind speeds, wind direction, clouds, and other important weather-related data from using a variety of instruments. The satellite will utilize thermometers, barometers, Anemometers, hygrometers, and cameras to achieve data collection.

1. **Data transmission**

The satellite will then transmit the collected data to weather agencies. The satellite will also transmit if there are any issues relating to the collection of the data or any major maintenance issues. The speed and how much data that can and will be transmitted is the main issue that can be identified in this system as well as the degradation of the instruments.

1. **Data processing**

After the data is transmitted from the satellite the data will then be processed accordingly. This is done using models and advanced analyzation techniques and algorithms. The meteorologists then analyze the data that was compiled and sorted and predict the weather expected and future expectations.

1. **Coordination and Management**

After the data is processed and analyzed by meteorologists’ government agencies and people then prepare for the weather. This can range from cancelling plans to FEMA and a state of emergency being declared for a disaster.

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