

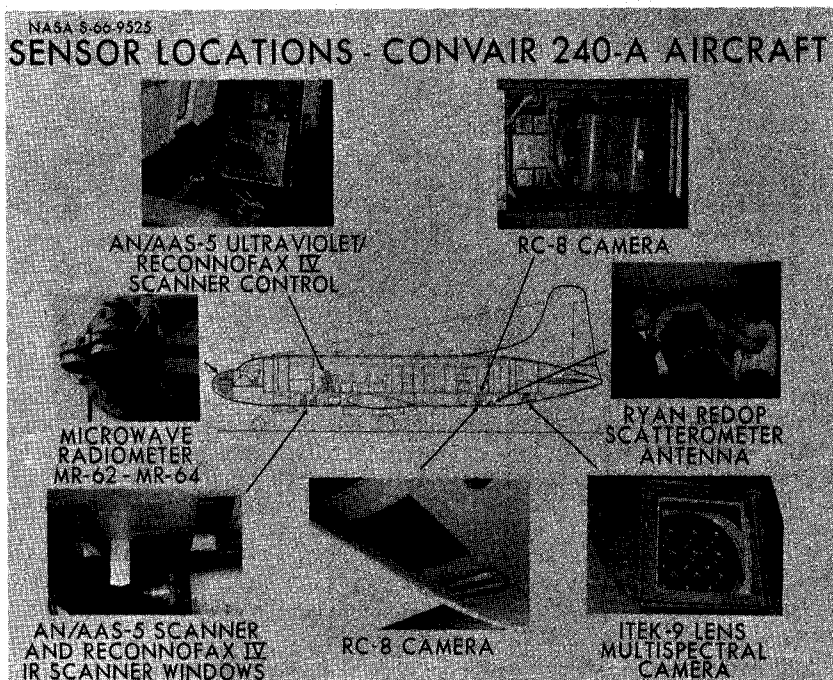


FIGURE 35

Now, this is a very big area, it is going to take a lot of study to determine what are the specific things to be done in that area. I think the Gemini pictures give you some idea of the things we might be getting into.

We have two airplanes at MSC which we are flying with a rather complex instrumentation. I have got a few slides here to show you some of the specific things you might be able to do.

Mr. Low. Can you try to finish up in just a few minutes?

Mr. PILAND. Yes. No more than 3 minutes.

Here is a radiometer located here, in the front of the airplane. The unique thing about it is that it measures at wavelengths which penetrate through clouds. This is an infrared device, and this is a mapping camera here. Now, I would just like to take those two instruments and show you some examples of the things you might be able to do.

This photograph was taken with this infrared device, and there was a field of oats on the surface here. What it shows is this fault line out in California. The significant thing is that it indicates the temperature on this side of the fault is several degrees cooler. What that indicates is that there is water on that side of the fault and there is no water on this side of the fault. It gives you some indication of the water resources.

This is another infrared picture, and, of course, this is the Gulf Stream. This is up off Cape Hatteras, and this is the coastline toward