

facilities on the ship. They were also shown the oceanographic observations which had been taken during the past season and also previous years. There was no restriction on their looking over all the laboratory facilities and all the data they had taken.

We would expect that very soon those data will be distributed in the usual scientific publications.

Mr. DEROUNIAN. May I ask why the Russians up to now have been unwilling to give us some of their data on Sputnik I and II? Was it not at some meeting recently that they were derided for just giving general information which was public knowledge in the newspapers but they had not given any scientific information to the world?

Dr. GOULD. Maybe Hugh Odishaw can comment on that but I suspect the material is not processed and readily available yet. It is too early to say that they are not going to give us all of the information from sputnik. I remember talking with Roberts of our own Climax Observatory in Colorado. He said they had collected enough information about Sputnik No. I to take them 2 years to interpret it. That may be part of the answer.

Dr. ODISHAW. I would like to confirm that. It is well to bear in mind there are two types of data that are important on an interchange basis so far as satellites are concerned.

There are agreements within the IGY covering both types.

The first type has to do merely with where is it, so that observers of other countries can track it or can pick up telemetry as the case maybe.

The second type has to do with internal experiments.

As to type I, we have had notification from the U. S. S. R. on their launching within the time agreed to internationally.

I would say that the record there has been satisfactory and comparable to our own record.

As to the internal experiments, Dr. Gould's point is well taken. There is a serious problem in taking the telemetry data, reducing it, analyzing it, correcting it, and this takes a great deal of time.

In our own rocket program we have had very few reports as yet and have not been able to send any to the other world data centers as of the present time, simply because of the slowness of the process. How things will develop we do not know but we believe they will follow the IGY pattern.

The CHAIRMAN. Dr. Cornell, would you like to comment on the overall work of the International Geophysical Year, either you or Dr. Joyce?

Dr. CORNELL. Mr. Chairman, I represent the National Academy of Sciences. In the first place, I would like to say that reference has been made to Dr. Bronk having been incarcerated in the hospital in New York and he was sorry indeed not to be with you today.

The CHAIRMAN. We are sorry that he has been ill.

Dr. CORNELL. He has had a difficulty with his leg which is a minor thing medically but a major thing with regard to holding him down. He told me on the phone this morning that he finally had persuaded the doctors to let him out in the next few days and he hopes to be back in his office at the Academy from time to time beginning this weekend but he could not be here today.