EVA (spacewalk) on 20 Oct. '88 and what happened afterwards:

a. During the EVA the cosmonauts used suits of a new type. They used the opportunity of the EVA for a practice test. The suit is more flexible than previous types and is better for "autonomical" operations during EVA-s.

b. However the repair of the detector-unit of the TTM telescope had been a success from a material point of view, we still had to wait for the results of final test of the functioning of the Telescope itself. We had to wait a couple of days before they concluded the tests. In the course of Oct. 24th they were involved in this. Next day the good functioning of the Dutch-British telescope was confirmed officially. WELL DONE REBYATA!!

## MIR communictions:

a. A lot of radio traffic between MIR and tracking ships (Komarov and Korolvov). During the periods in which those contacts could be heard there had been a change in the frequencies in use by Telemetry beacons. Instead of 165.875 and 166.125mc, the beacons could be heard on +/- 166.138 and 166.150mc. ( e ships possibly proceeded to other positions to be operational during the onlowing test flight of the KOSMOLYOT (SPACE SHUTTLE) "BURAN". b. The cosmonauts during the last days complain a lot about the fact the the Telemetry does not always give the right data. They are sure about differences, also when medical data are transferred. Titov said that their opinion had been based on an experience of 10 months. He and Manarov urged TsUP to take measures for the transfer of important data, for instance Electro Cardiograms, only in "zones" where radio communication is sure for 100%. (Possibly this had been the real cause for the return long before schedule of Laveykin in 1987, due to "hearth complaints". There was nothing wrong with Laveykin's hearth and he is sure to make 3 other space flights in future.) c. Apart from 143.625mc MIR is also transmitting on several other frequencies. The conversations of the commonauts on 143.625mc (V.H.F-1) confirm this. They communicate (or test) channels via T.D.R.S.-s (Luch -in the past, but they still use that word\_\_\_and Strela. They also mention a frequency, V.H.F.-2, and use this when also the 143.625mc transmitter is working. Via V.H.F.2 they transmit medical data and -possibly- confidential information. Today (26th of Oct.) for instance, Polyakov was training on one of ty hometrainers and the cardiological data reached TSUP via V.H.F.-1. During the pass in which this took place I scanned all possible frequencies but did not meet the familiar "cardio cassette sounds". (If there is anybody with suggestions in this field: PLEASE, PLEASE, INFORM ME!!)

## PLANS FOR THE NEAR FUTURE:

a. Saturday, Oct. 29th '88, after several delays, the launch of an Energiya rocket from Baykunur to bring in a orbital testflight the sovjet Kosmolyot (Space shuttle) BURAN. Launch time: 0326UT. Unmanned flight, computercontrolled, 2 or 3 orbits. Possibly with a low orbit and a period of 88 or 89 minutes. After the pass over or in the neighbourhood of Buran in a 3d orbit, the descend and approach has to begin for a landing on a Baykunur airstrip 9 minutes later. So if the Buran will make 2 orbits, this is a pityas it will impossible to sleuth for beacon and/or Telemetry frequencies. Those

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d. EVA of the Frenchman with Volkov (or if stand-in Viktorenko) Dec. 9th, '88 at 1018UT. During this EVA the French commonaut will install a gridantenna with a diameter of 3.8 M. He will install this ERA system -a French experiment- on the P.Kh.O. (the ball-shabed Transition compartment). e. Returnflight with Soyuz-TM6 of Titov, Manarov and Chretien (or: Tognini) on Dec. 21st '88. Volkov and Krykalov (or: Viktorenko and Serebrov) and the physician Polyakov will stay onboard MIR until April or May 1989. So no endurance record attempt in that stage.

SHCHUKIN: Sovjet shuttle pilot and cosmonaut SHCHUKIN died Aug. 18th 1988 in the crash of his fighter Sukhoy-36 during a stunt or acrobatic flight. Shchukin had been stand-in for the crew of Soyuz-TM4 21st of December 1987. If necessary he then had to replace Levchenko. Shchukin survived his good collegue Levchenko for 14 days. Let us hope that this news of SHCHUKIN'S dead just before the launch of Buran will not be a "plokhoye predznamenovaniye" (a bad omen).

Greetings, Chris van den Berg, NL-9165/A-UK3202