Resolution SFCG A21-1R4

ASSISTANCE IN THE ASSIGNMENT OF FREQUENCIES TO DEEP SPACE MISSIONS (CATEGORY B)

The SFCG,

CONSIDERING

a) that the proper assignment of frequencies to deep space probes (Category B missions) is essential to mission success;

b) that this assignment process demands the appropriate software tools, significant expertise, and a complete knowledge of the existing and planned assignments to Category B missions, as well as their technical parameters, trajectories, mission timeframes, and planned events;

c) that frequency selection by one agency for all deep space missions, including frequencies for proximity links, would minimize the potential need for operational coordination;

d) that NASA/JPL has carried out successfully for many decades the task of frequency assignment to NASA and some other space agencies' deep space missions;

e) that up-to-date information on launch and end of mission dates, spacecraft trajectories, operational modes of the telecommunication links, and relevant link parameters, including the measurements of unwanted emissions such as spurious signals, is vital in conducting frequency channel selection studies and interference analyses;

f) that an increasing number of non-SFCG organizations, including commercial entities and universities, are planning deep space missions, which will need to share frequency bands utilized by SFCG Member Agencies;

RECOGNISING

i) the offer by NASA/JPL to assist SFCG Member Agencies, at their request, with frequency assignment tasks for Category B missions;

ii) that NASA/JPL may also assist non-SFCG Member Agencies, at their request, with frequency assignment tasks for Category B missions;

RESOLVES

to accept the offer by NASA/JPL, and

ENCOURAGES

1. SFCG Member Agencies and non-SFCG organizations planning deep space missions to take advantage of the assistance offered by NASA/JPL and to provide current technical, operational and mission information, including proximity links and measurements of unwanted emissions such as spurious signals when available, and timely updates to facilitate frequency channel selection studies and interference analysis;

2. SFCG Member Agencies that provide support for deep space missions of non-SFCG organizations to require those organizations to comply with all SFCG Resolutions and Recommendations.