Internal Transponder Data Format (ITDF)
Jan McGarry

➢ Used to transfer fire times from all ground stations

➢ Extension ".itdf".

➢ Two parts: (i) single header line for fixed information
                   (ii) body containing one line per fire

➢ Transmit energy and sky clarity field do not have to be filled in (insert 0 for no data in field).

<u>Header:</u>
Station ID, COSPAR ID, wavelength(AAAA), year(yyyy), doy(ddd)

<u>Data:</u>
Up/down flag (0=transmit for LRO, 1=receive),
Firetime (17 digits: SOD + psec of day),
Mount elevation – without refraction (+-xx.xxxx deg),
Transmit energy (xxx units TBD),
Temperature (xxx.xx deg.K),
Pressure (xxxx.xx mbar),
Humidity (xxx%),
Sky clarity(0-3, where 0=no data, 1=clear, 2=hazy, 3=cloudy, and
         clarity is defined as along the telescope line of sight.

Each field is separated by a space.

- Firetime – actual time of laser fire.

- Mount elevation – predicted

- Transmit energy – if available.

- Temperature , Pressure and Humidity – same as for SLR.

- Sky clarity – if available.