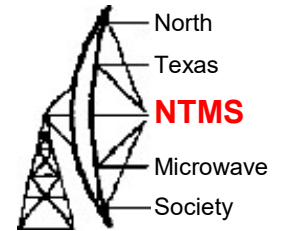


W5HN

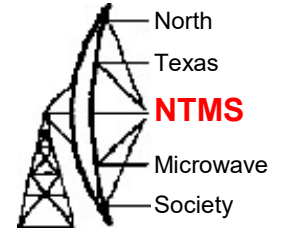


NTMS Meeting

November 3, 2018

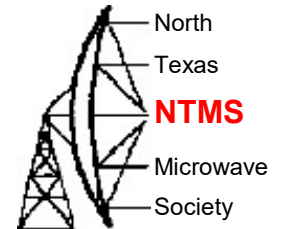
St Barnabas - Richardson

2018 - 2019 Calendar Dates



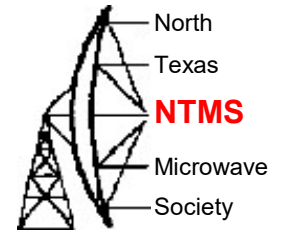
- December 1 – NTMS Meeting
Election of Officers for 2019
- January 19 – Cowtown Hamfest Fort Worth
Need a presentation – 45 Minutes
- February 2 – NTMS Meeting

MUD 2019



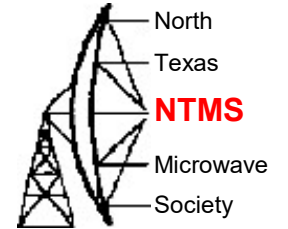
- Lewisville (Dallas) Texas - October 4th to 6th
- Hilton Garden Inn – Make Reservations!
– MUD2019 Links will be up soon
- Key decisions on cost and meals will be made soon to support web posting.

Planned Focus Sessions



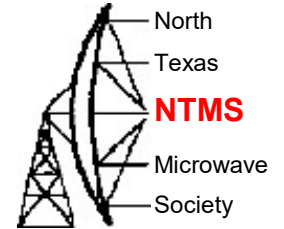
- Getting on EME
- Microwave contest and roving – Ideas/Examples
- Using SDR with Radio/Transverter
 - Programming and setup of commercial rigs, Raspberry Pi, and Adalm-Pluto
- Low phase noise LOs
 - Programing and setup of low cost LOs
- Using KiCAD for making Microwave Schematics and PCBs
- Antenna – Dish – Feed: designs and measurements
- Operation above 10 GHz.

MUD 2019



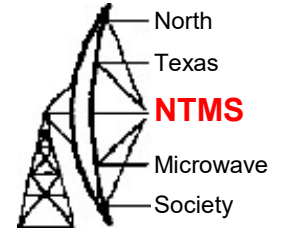
- Signed Contract with Hilton Garden Inn Lewisville for MUD 2019
- Working on a budget and detailed plans
- Dates for MUD are October 4th through 6th 2019.

Presentations Today

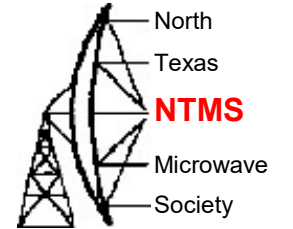


- Al, W5LUA - Contest Activity, WA5YWC
- Greg, AA5C - Recent Projects
- Dave, N5RIJ - Filter Tuning + Results
- Kent, WA5VJB - Antenna Talk
(6M BBQ Oncore)
- Bob, N5BRG - Tidbits

Harold K5S XK



Harold K5SXX



Active Satellites AMSAT.ORG

| Transponder/Repeater active | Telemetry/Beacon only | No signal | Conflicting reports | ISS Crew (Voice) Active | | |
|-----------------------------|-----------------------|---------------------|---------------------|-------------------------|-----------------|-------------------|
| Name | Oct 26 | Oct 25 | Oct 24 | Oct 23 | Oct 22 | Oct 21 |
| BHUTAN-1 | | | 1 | 1 | 1 | |
| CUTE-1 | | 1 | 1 | 1 | 1 | 1 |
| UiTMSAT-1 | | | 1 | 1 | | 1 |
| UKube-1 | 1 | 1 1 1 | 1 1 | 1 1 1 | 1 1 1 | 1 1 |
| LilacSat-2 | | 1 | | | 1 | |
| FS-3 | 1 | 1 1 | 1 | 1 1 1 | 3 2 | 3 3 1 1 1 |
| [A] AO-7 | | 1 1 | 1 | 1 1 1 | 1 1 | 1 1 |
| [B] AO-7 | 1 | 2 2 1 1 | 1 | 2 1 4 1 1 | 3 1 1 1 1 2 1 2 | 1 1 1 2 2 1 1 1 |
| XI-V | | 2 | 1 | 1 | 1 | 1 |
| AO-92 L/v | | | | | | 2 2 4 1 1 1 3 1 1 |
| AO-92 U/v | 1 2 | 1 5 4 1 1 | 1 2 1 1 1 2 1 | 1 1 2 1 4 1 1 1 | 1 1 1 1 1 2 6 3 | 1 1 1 1 |
| [B] UO-11 | 1 | 1 | 1 | 1 | 1 | 1 1 |
| RS-15 | | 2 | 2 | 2 | 2 | 1 1 1 |
| LO-19 | | | 1 | | | |
| FO-29 | 1 | 2 2 1 1 1 2 1 1 1 1 | 1 2 4 2 1 1 5 | 1 2 1 1 6 5 1 1 1 1 1 | 2 6 2 1 1 1 3 2 | 2 2 2 1 1 3 2 |
| XW-2A | 1 2 1 | 1 2 1 | 1 1 1 1 1 | 1 2 1 | 2 1 1 1 1 | 1 2 2 2 3 |
| XW-2B | | 2 1 1 1 1 | 1 2 1 1 1 | 1 1 1 1 1 1 | 1 1 2 1 2 1 | 1 2 3 1 2 1 |
| XW-2C | | 1 2 2 2 1 1 | 1 1 1 1 1 1 | 1 1 1 1 1 1 | 1 2 1 1 1 1 1 | 1 2 1 1 2 1 |
| XW-2D | | 1 2 1 1 | 1 1 | 1 1 1 | 1 2 1 1 1 | 1 2 1 1 1 1 |
| XW-2E | | 1 1 | 1 1 1 1 | 1 1 1 1 | 1 1 1 1 | 1 1 1 1 |
| XW-2F | 1 1 | 1 1 2 | 2 1 1 1 | 1 1 2 1 1 1 | 2 1 1 1 3 2 1 | 1 1 2 1 1 1 2 |
| NO-44 | | 2 | 1 | | | |
| CAS-4A | | 1 2 1 1 | 1 1 1 1 | 1 1 1 1 | 1 2 1 2 1 1 1 | 1 1 1 3 2 1 1 1 |
| CAS-4B | 1 | 1 1 1 1 1 1 | 1 2 1 1 | 1 1 1 1 1 1 | 2 1 2 1 1 1 1 1 | 1 1 4 1 2 3 1 |
| SO-50 | 1 | 1 2 1 | 2 1 1 1 | 1 2 2 | 1 1 1 1 1 | 1 1 2 3 1 1 |
| HO-68 | | 1 | 1 1 | 1 | 1 | 1 |
| AO-73 | 1 1 | 1 1 | 1 1 1 1 | 1 2 1 | 1 1 1 1 2 2 | 2 2 2 2 2 |
| AO-85 | 3 3 | 2 1 1 1 1 | 1 1 1 2 3 1 1 1 1 | 1 1 1 2 1 1 1 1 | 1 1 1 2 4 1 | 5 2 2 2 1 1 2 |
| IO-86 | | 1 1 1 2 1 1 1 1 1 | 1 1 1 1 2 1 1 1 1 | 1 1 1 1 1 1 2 1 | 2 1 1 1 1 1 1 1 | 1 1 2 1 1 1 1 1 |
| EO-88 | | 1 1 1 | 2 2 2 | 1 1 1 | 1 1 1 1 | 1 1 2 1 1 1 |
| AO-91 | | 4 3 1 | 1 1 2 2 3 2 1 | 1 1 3 2 2 | 3 1 6 3 2 | 2 1 1 4 4 1 1 1 |
| X-CUBESAT | | 1 | 1 | 1 | 1 | 1 1 |
| SPACECUBE | | | 1 | 1 | 1 | |
| Delfi-C3 | | 1 1 | 1 1 | 1 | 1 | 1 |
| ISS-FM | | | 1 6 | 8 | 1 4 | 1 1 3 |
| NO-84 Digi | 1 1 1 2 | 1 1 1 1 | 1 1 1 | 1 | 1 1 | 2 2 |
| XI-IV | | 1 | 1 | 1 | 1 | 1 |
| NO-84 PSK | 1 | | | | | |
| ISS-DATA | 2 1 | 1 1 2 | 2 1 4 2 2 | 3 1 2 1 | 1 1 1 1 1 1 | 3 3 1 3 1 1 2 1 |
| ISS-DATV | | | | 2 1 | | 1 |

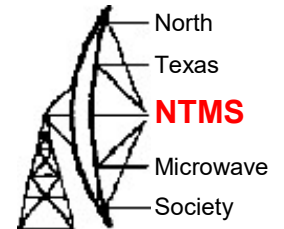
2018

40 Birds

Heard
AA5PK-DM91
2018-10-21
0:46-:59 UTC

Heard
WB8OTH-EM89
2018-10-21
0:46-:59 UTC

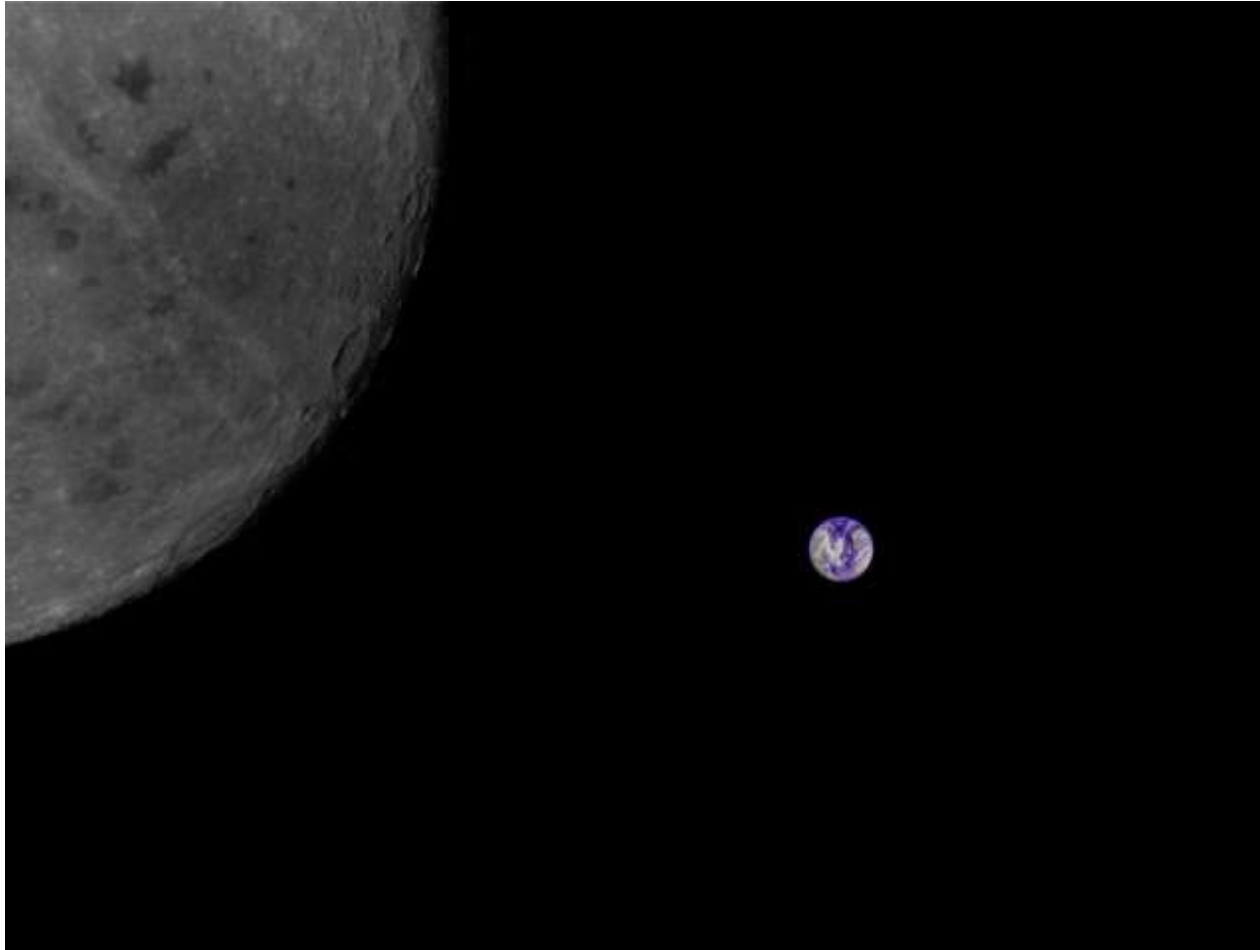
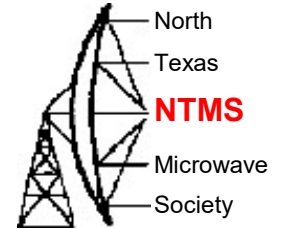
From: ARRL Letter



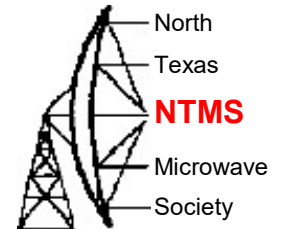
Dwingeloo Radio Telescope Receives Dark-Side Lunar Images from Chinese Amateur Satellite

The 25-meter Dwingeloo Radio Telescope in the Netherlands has received photos of the dark side of the moon, transmitted by the Chinese [Longjiang-2](#) lunar satellite (DSLWP-B), Lunar-OSCAR 94 (LO-94). One especially dramatic image shows the far side of the moon with Earth in the background, taken by the *Longjiang-2* satellite and transmitted by an onboard Amateur Radio transceiver. The Dwingeloo Radio Telescope had been restored by the C.A. Muller Radio Astronomy Station PI9CAM group ([CAMRAS](#)).

Image from Moon



Satellite Transmission



- An open telecommand protocol allows radio amateurs to take and download images. The spacecraft transmits on 70 centimeters (435.400/436.400 MHz), with 250/500 bps GMSK using 10 kHz wide FM single-channel data, with concatenated codes or JT4G. JT4 uses four-tone FSK, with a keying rate of 4.375 baud; the JT4G sub-mode uses 315 Hz tone spacing and 1,260 Hz total bandwidth.