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to this ratio and is related. This is also a very important parameter when designing a good EME station. An easy way to describe this is to make the antenna gain as high as possible and the noise count as low as possible to increase the signal-to-noise ratio. The higher the G/T, the better. If you look at the G/T of an antenna itself, it is the factors of antenna temperature, gain and the antenna pattern that make up the G/T of an antenna. Declination : The term used to describe the lunar position relative to the Earth's equator. If the declination is minus 8 degrees, then the moon would be 90 degrees above head at 8 degrees south latitude on Earth. GHA or Greenwich Hour Angle : The term used to describe the lunar position in relationships with Earth's longitude. If the moons GHA was at 20 degrees, then the moon would be directly above 20 degrees West Longitude. EME Degradation : Basically it is the amount of degradation in dB's due to sky temperature, moon distance and declination. Usually from 0 dB to -2.5 dB maximum . Most would agree that the smallest loss of degradation would be with the lowest sky noise, the highest declination, and the moon in Perigee. Moon Perigee : When the moon is at its closest distance from Earth. Moon Apogee : When the moon is furthest from Earth ls. Sky Noises : This is the term used to describe the background noise behind the moon or the noise temperature on and around the moon. It's measured in degrees Kelvin. If the moon is at or near a high noise area such as the Milky Way or the Sun, the sky noise would be high compared to the area in the sky, which has the lowest noise temperature known as cold skies. Moon Elevation : The term used to describe the height of the moon at the observer position relative to the horizon. A height of 10 degrees would mean that the moon is 10 degrees above the horizon at the observer position. 90 degrees high would be directly overhead. Azimuth of the Moon : The term used to describe the compass heading of the moon measured in degrees at the observer position. 90 degrees azimuth would be exactly east. Phase of the Moon : The term used to describe the illumination of the moon by the sun. A full moon would mean that the entire disk of the moon would be illuminated at the site of the observers. A new moon would mean that the lunar disk at the site of the observers is completely dark. The phase of the moon does NOT affect EME reproduction. EME HF Weekly Net : Listen or participate with the EME Bunch (newcomers are very welcome) on Saturdays and Sundays at 1500 utc for the 432 Mhz and higher group and 1600 utc for the 2 meter EME group on 14.345 MHz hosted by VE7BQH, Lionel. The network is designed to create timetables for EME contacts and to discuss the experiences of EME operators during their contacts. Join the EME Reflector by e-mail: Join the EME Reflector and receive regular email postings from HAM's that spend a lot of time on EME. There is much to learn here, just as it is a great opportunity to meet with others and create schedules. You are a lot of good people here who are willing to help set up a station and get started. To subscribe, go as follows: go to listserve@vm.stlawu.edu and within the body type of the message, enter subscribe to Moon-net. When and where to listen to EME signals: Listening to EME signals can be a very difficult task if there is no intelligence, if any stations are transmitted at all on the moon. Here are some good tips that will make hunting for EME signals much easier. 1) Weekend activity has a much higher probability of activity due to the fact that many are at work. Both weekends and sometimes holidays are good times to listen to (especially when the holidays are celebrated worldwide) 2) Competitions such as the EME competitions and sometimes VHF/UHF competitions have a higher probability of EME activities. Pay attention to activities, especially during eME competitions. 3) Common window of Europe. That is, if there is a moonrise to the USA and Europe can be seen at the same time as the moon. This does not mean that other continents are not active, but simply means that Europe is the most widely heard. 4) High Declination, Low Sky and Low Solar/Sky Noise seems the most popular for EME operators. Pay attention to activity, especially if all of these criteria are met (See monthly lunar state report above). This happens about a week a month and e-month. 5) Ground Gain, especially at 6 and 2 meters, provides more signal amplification anywhere from 3 to 5 db due to improved ground conduction of signals due to low altitude positions of the moon. Soil gain deteriorates sharply when the moon rises above about 5 to 10 degrees. 6) The BEST assurance that signals will be heard is when a known EME schedule occurs. The good thing is that there is a program that contains most of the schedule information needed to know where and when to listen. This is a program called SKD81A written by N1BUG, AF9Y and W9HLY. It includes an excellent package of EME schedules, EME Operator Station Info, Moon Tracking and many other features. To get this program, go to AF9Y website here >>> AF9Y. The programs SKED File, Vhfsched.skd , is updated weekly, so it is important to get weekly downloads and updates from this location. This program does not include every single schedule that exists, but it will contain a large amount of schedule activities. 2 meter EME schedules (Current !!!) . Times in UTC >>> Skd81A Skeds BTW: If you want to create a schedule with a different EME operator, check in in the weekly HF EME Net described above or send an email to the EME reflector. EME and AF9Y's FFTDSP Program : There is a program that works as a real-time audio spectrum analyzer from Mike Cook, AF9Y. With this program it is possible to detect EME and other weak signals with ease by using nothing but this program, a computer sound card and the speaker output jack of the radio. It allows the EME operator to detect, find and adjust EME signals, in some cases well below the audiobar area of the human ear. This becomes very useful because in some cases trying to find stations is extremely difficult, especially when a station enters and exits into the sound floor that applies to most EME signals. It is possible to monitor both sides of an EME QSO without having to tune the radios VFO back and forth. It has an audio bandwidth up to 3 KHz. One of the best applications for this program is to search for activity on the moon for random contacts. This program and more information can be found on Mike's website here >>> FFTDSP Program Working EME On Single Yagi's or Standard Tropo Setups : It is very possible to work EME on a single Yagi or Standard Tropo setup. It has been done and it can be done, is a small list of stations that should be editable with a single Yagi (or antenna systems with at least 10 dBd amplification) at 2 meters: W5UN, SM5FRH, VE7BQH, KB8RQ and possibly many others. Working on these stations can but there is no reason why these stations cannot be operated. This is due to their very high ERP antenna systems. What does Single yagi ??? mean Many operators will describe that they have worked stations on a single Yagi, but sometimes do not explain in detail about the antenna. It is very important to explain this because the Sanian winning numbers that can hold individual yagis. A single Yagi can be anything from a 2 element, 3 footer, which has a amplification of only 6 dBd to a 19 element 42 feet yagi, which has a amplification of 17 dBd. You can see a huge difference in the profit here, so if someone mentions that they have worked a station with a single yagi, it is important to also consider the winning number of the antenna. This is to illustrate any confusion about what the definition of a single Yagi is under these conditions. The list of stations above will probably be difficult, at best or even impossible (never say impossible ???) to work on a 2-element beam, but should be practicable on something like a 12 foot 9 or 10 element under the right conditions. EME Tools The W5UN Array Power Analyzer / Troubleshooter >>> W5UN Active EME Stations with Antenna and Power Info List of the most active EME stations >>> EME DUBUS List Active 2 meter EME stations >>> 2 meter stations Active 432 Mhz to microwave stations >>> 432 mhz and via EME : 432 MHz and via EME schedule info can be found here >>> 432 MHz and higher Skeds Real Time 432 EME Activity Chatroom >>> 432 EME EME EME Antenna Gallery 432 MHz and higher from W6/PA0ZN sources for 432 MHz, 1296 MHz and higher EME Equipment (including VE4MA/W2IMU Feedhorns, 2C39 Cavities and Power Supplies, Hybrid Combinators, Antenna Combinators, etc.): VE1ALQs Excellent EME Equipment Page >>> 23 and 13 CM EME Source by VE1ALQ PA4FP EME Source >>> PA4FP PA3CSG's EME Modifications Info Page >>> PA3CSG DL4MEA's 12 96 2C39 Amplifier Page >>> DL4MEA GM4JJJ it 2 meters Dual 4CX250B W1SL Power Amp Page >>> GM4JJJ G3SEK's EME Equipment Building Info Page >>> G3SEK Other EME'ers Homepages : AF9Y Mike's WebPage Mikes has a great website containing a cool Helix antenna design for the Moon Prospector, a DSP software program used for EME and a program used to use skeds including full station info for EME. AL7OB 432 EME Big Gun Station 30 foot Dish from Alaska KB8RQ Gary's website of Ohio HB9Q Dan/Marks EME website IK2DDR Francesco's EME web page IK5QLO Andrea's 432 EME website JH2COZ EME 2 Mtr antenna image KJ7F Terry's website PE1OGF Johns website SM5 BSZ Leif website SM7SJR Bjorns website VE3KH Kevins W0PT Bills Website W6/PA0ZN Here is one of the most complete and best websites I found in the weak signal subject W5UN homepage Download a list of all active EME'er by call sign, take a look at the world's largest EME array, learn how to with only one yagi no height and 50 watts. 7M2PDT 432 EME website of Japan 9A9B Branimr's website of Croatia EME ACTIVITY LOGGER Click here to create an EME schedule or check an EME activity in real time.

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