

**Known Digital-ATV DX Records**

updated 2018-11-07

by Ken W6HHC

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**76 GHz**

**12 KM** G8GTZ/P & G4LDR/P 2018-06-10  
DVB-S at 250 KS/s RB-DATV.  
Locations IO90LX and IO90LU

**24 GHz**

**124 KM** JA6DME & JA6EES 2011-11-12  
Locations Mont Ten-Zan and Mont Ge-Zan

**85 KM** G8GTZ/P & G4GKQ/P 2018-06-10  
DVB-S protocol at 333 KS/s.  
Locations IO90LX and IO80WP

**10 GHz**

**450 KM** HB9JBC & F4CXQ 2005-06-21  
Locations JN40CT (Sardinia) and JN12OH (Spain)

**407 KM** M0DTS/P & G4UVZ 2018-10-24  
Intense tropo-ducting all bands. RB-DATV using DVB-S at 125 KS/s & 333 KS/s  
Locations IO94MJ (Danby Head) and IO80KX (Hollybank Blagdon Hill)

**70 CM - continued**

**600 KM** DBØTAN (repeater) to F9ZG 2014-11-28  
DVB-S - one-way DATV - Tropospheric ducting (signal 25 dB S/N over ca)  
Locations Wasserkuppe (Germany Hesse state) to IN99KC (Normandy France)

**528 KM** G3PYB & F5AGO 2013-09-24  
(DVB-S 2MS/sec)  
Locations near W YORKSHIRE and JN06DP (near Poitiers, France)

**501 KM** W4HTB & WB8LGA 2014-07-26  
(DVB-T QPSK FEC=1/2 2 MHz Bandwidth) - Tropospheric ducting  
Locations Bowling Green, KY and Marengo, OH

**235 KM** G8GTZ & F9ZG 2016-06-12  
H.264 video - DVB-S protocol at 125 KSymb/s using DATV-Express w/ 19-ele yagi  
Locations JO00HU (Fairlight near Hastings) and IN99KC (near Cherbourg)

**121 KM** KH6HTV to KØRZ 2011-11-21  
(video resolution HDTV 1080i - protocol ITU-T/J.83B QAM-64 - one-way DATV)  
Locations Cheyenne, Wyoming and Boulder, Colorado

**5.7 GHz**

**341 KM** JL1BLF & JH1GED 2011-08-06  
Locations Mont Chokai-san and Mont Kashimayari-gatake)

**144 MHz**

**407 KM** M0DTS/P & G4UVZ 2018-10-24  
DVB-S at 333 KS/s RB-DATV.  
Locations IO94MJ (Danby Head) and IO80KX (Hollybank Blagdon Hill)

**3.4 GHz**

**154 KM** GW4CBW/P & G3NWR/P 2018-06-10  
DVB-S at 333 KS/s RB-DATV. Locations IO83FD and IO84ML

**313 KM** GI7UGV & G4CBW 2018-07-14  
tropo-ducting - H.264 video - 8W DVB-S protocol at 333 KSymb/s with Portsdown tx & MiniTiouner rx with 7-ele yagi at GI7UGV. G4CBW used DATV-Express tx (7W) & MiniTiouner with 5-ele beam. - on 146.5 MHz - UK temporary band allocation  
Locations IO74AU93XP (Larne, N. Ire) and IO83UB93 (Newcastle-Under-Lyme)

**2.4 GHz**

~ **1000 KM** OR4ISS to IØKPT (one-way) 2014-03-08  
~ **1000 KM** OR4ISS to IK1SLD (one-way) 2014-03-08  
Initial DVB-S protocol live video transmissions from HamTV in orbit aboard ISS  
SR = 1.34 MSymb/sec and 2.0 MSymb/s using SR-Systems exciter & MPEG2  
Locations Orbit to Matera, Italy and also Orbit to Casale Monferrato, Italy

**294 KM** G0MJW/A & G8LES 2016-12-29  
tropo-ducting - H.264 video - DVB-S protocol at 125 KSymb/s with DATV-Express and 9-ele yagi at GØMJW. G8LES also used DATV-Express with 10-ele X-yagi.  
Both produced 25W ERP. - on 146.5 MHz - UK temporary band allocation  
Locations IO83RO (Winter Hill) and IO91LC (Four Marks)

**252 KM** JA6SPI & JA5MFY 2009-11-03  
Locations ??

**281 KM** G8GTZ & G0MJW/A 2016-12-29  
tropo-ducting - H.264 video - DVB-S protocol at 125 KSymb/s with DATV-Express and 9-ele yagi at G8GTZ. GØMJW also used DATV-Express with 9-ele yagi.  
Both produced 25W ERP. - on 146.5 MHz - UK temporary band allocation  
Locations IO91KF (near Basingstoke) and IO83RO (Winter Hill)

**1.2 GHz**

**440 KM** G4KLB to G1LPS 2010-10-11  
Locations IO90BR and IO94EQ  
(tropospheric ducting - one-way DATV)

**419 KM** G4KLB & MØDTS 2010-10-11  
Locations Bournemouth, England and Yarm, England  
(tropospheric ducting)

**50 KM** MØDTS & G1LPS 2015-02-21  
H.264 video - protocol DVB-S at 333 KSymb/s using experimental DATV-Express transmitters and MiniTiouner RB-DATV receivers.  
on 146.5 MHz - UK temporary band allocation  
Locations North York Moors, England and Spennymoor (County Durham), Eng

**379 KM** VK3RTV(RPTR) & VK7EM 2011-02-23  
Locations Mount Dandenong, Victoria and Penguin, Tasmania  
(operators VK3BFG, VK3DQ, VK3WWW and VK3TRX)

**252 KM** JA5GYU & JA6JNR 2009-11-03  
(1 Watt)

**70 MHz**

**136.6 KM** G8VPG & G4BVK 2018-09-14  
H.265 video - DVB-S protocol at 333 KSymb/s with DATV-Express transmitter, MiniTiouner receiver and 3-ele yagi at both stations  
Both transmitted 20W - on 71.0 MHz - UK temporary 4M band allocation  
Locations IO81FD19QU (Dunkery Beacon) and IO81XW90 (Cleeve Hill)

**70 CM**

**696 KM** F1FY to G8GTZ 2013-09-24  
(DVB-S 2MS/sec FEC=1/2 - - one way reception)  
**696 KM** G8GTZ to F1FY 2013-09-25  
(DVB-S 2MS/sec FEC=1/2 - - one way reception reported by FM)  
Locations IO91KH (near Basingstoke) and JN16VB (near Roanne, France)

**50 MHz**

**64 KM** G8ADM to G8LES 2015-02-10  
DVB-S protocol at 1.133 MSymb/Sec with FEC=3/4 (one-way)  
on 51.2 MHz using 200W avg Pwr Out and BW approx 1.5 MHz  
Locations North of Harrow (IO91TO) to North of Alton in Hampshire