

**Known Digital-ATV DX Records**

updated 2017-09-08

by Ken W6HHC

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**24 GHz**

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

**10 GHz**

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

**137 KM** G8GKQ & G8GTZ 2017-08-27

H.264 video - G8GKQ used DVB-S protocol at 333 KSymb/s FEC=7/8 with RPI and Portsdown at 500 mW. G8GTZ used DVB-S2 PIPO & DATV-Express running 5W at 333 KSymb/s. Both stations used Minitouner receivers.  
Locations IO81XW81QB (Cleeve Common) & IO81FD19PQ (Dunkery Beacon)

**93 KM** G8GKQ & G8GTZ 2016-07-05

H.264 video - DVB-S protocol at 333 KSymb/s FEC=7/8. G8GKQ used RPI and DigiThin at 250 mW. G8GTZ used PIPO and DATV-Express at 3W.  
Locations IO80WP (Povington Hill near Lulworth) and IO91GI (Walbury Hill)

**5.7 GHz**

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

**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

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

**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)

**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 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)

**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 (Hesse state, Germany) 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

**144 MHz**

**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)

**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)

**237 KM** F3YX to F9ZG 2011-11-09  
DVB-S protocol at 1000 KSymb/s using modified SR-Sys MiniMOD (one-way) on 145.0 MHz experimental license 5-Minute max  
Locations JN18AP (near Limours, France) to IN99KC (near Cherbourg, France)

**195 KM** GW8VPG & G8GTZ 2016-12-11  
DVB-S/H.264-video protocol at 333 KS/s - GW8VPG using DATV-Express w/ 9-ele G8GTZ also used DATV-Express w/ 9-ele yagi  
on 146.5 MHz - UK temporary band allocation  
Locations IO81LS (Bloreng Mountain in South Wales) and IO90JO (Isle of Wight)

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

**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