

**Known Digital-ATV DX Records**

updated 2016-09-17

by Ken W6HHC

**24 GHz****70 CM - continued**

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

**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)

**10 GHz**

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

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

**93 KM** G8GKQ & G8GTZ 2016-07-05  
H.264 video - DVB-S protocol at 333 KSym/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)

**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

**32 KM** G8GKQ & G8GTZ 2016-06-23  
H.264 video - DVB-S protocol at 333 KSym/s FEC=7/8. G8GKQ used RPI and DigiThin at 200 mW. G8GTZ used PIPO and DATV-Express at 5W.  
Locations IO91JA (Lane End) and IO91JH (Hannington)

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

**5.7 GHz**

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

**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

**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

**144 MHz**

**237 KM** F3YX to F9ZG 2011-11-09  
DVB-S protocol at 1000 KSym/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)

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

**182 KM** G8GTZ & G8GKQ 2016-09-03  
H.264 video - DVB-S protocol at 333 KSym/s using DATV-Express w/ 9-ele yagi  
at G8GTZ. G8GKQ used RPI w/ camera and DigiThin with 5-ele yagi  
Both produced 25W ERP. - on 146.5 MHz - UK temporary band allocation  
Locations IO82QL (Clee Hill) and IO80UU (Bulbarrow Hill)

**1.2 GHz**

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

**169 KM** G8VPG & G8GTZ 2016-09-03  
H.264 video - protocol DVB-S at 333 KS/s - G8VPG using DATV-Express w/ 9-ele  
G8GTZ also used DATV-Express w/ 9-ele yagi  
on 146.5 MHz - UK temporary band allocation  
Locations IO80WX (Win Green) and IO82QL (Clee Hill)

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

**169 KM** G8GTZ & G7NSY 2016-09-03  
H.264 video - DVB-S protocol at 333 KSym/s using DATV-Express w/ 9-ele yagi  
at G8GTZ. G7NSY used DATV-Express w/ 9-ele yagi  
on 146.5 MHz - UK temporary band allocation  
Locations IO82QL (Clee Hill) and IO80WX (Win Green)

**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)

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

**70 CM**

**696 KM** F1FY to G8GTZ 2013-09-24  
(DVB-S 2MS/sec FEC=1/2 - - one way reception)

**50 MHz**

**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)

**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