

Known Digital-ATV DX Records updated 2022-07-13 by Ken W6HHC		
76 GHz		
35.6 KM	G8GTZ/P & G4LDR/P	2019-01-28
DVB-S2 at 333 KS/s RB-DATV. Locations Coombe (IO91GI) and Cheesefoot Head (IO91JB)		
12 KM	G8GTZ/P & G4LDR/P	2018-06-10
DVB-S at 250 KS/s RB-DATV. Locations IO90LX and IO90LU		
47 GHz		
115 KM	JA0RGP/0 & JA0RUZ/0	2015-06-07
DVB-S protocol - each station SR-Systems excitor SR=6000KS/s - 150 mw final out Locations PM97MT (Niigata City) and PM96FV (Nozawa Onsen Ski Resort)		
24 GHz		
136 KM	G8GTZ/P & G4FRE/P	2019-06-09
DVB-S2 Protocol - 333KS/s FEC=1/2 approximately 0.5 watt, 60cm dishes Locations Dunkery Beacon (IO81FD) and Cleeve Common (IO81XW81)		
124 KM	JA6DME & JA6EES	2011-11-12
Locations Mont Ten-Zan and Mont Ge-Zan		
113 KM	JA0RGP to JA0RUZ	2020-06-20
ISDB-T JA0RUZ EMB220 TX at 150mw out JA0RGP HV-320J at 300 mw final out Locations PM97LU (Niigata City) and PM96FV (Nozawa Onsen Ski Resort)		
10 GHz		
903 KM	IZ5TEP/IT9HZM & IT9GA/IW9GUR	2022-05-15
DVB-S2 at SR=333 KS/s Pluto at 3W and Minitiouner (both ends) Locations JN44GK83 (Monte Beigua) and JM78RE58 (Monti Peloritani in Sicilia)		
463 KM	JA0RUZ & JA0DAE	2012-07-28
DVB-S protocol SR-Systems excitor SR=6000 KS/s Locations Akita prefecture (Cold Wind Mt) and Toyama prefecture (Mt.Iozan)		
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)		
258 KM	F1MPE/P & HB9AFO	2019-09-14
DVB-S at 333ks/s using Portsdown exciter - HB9AFO w/ 8W out and 1M dish Locations JN26JL and JN36GN reflections against Mont Blanc		
5.7 GHz		
464 KM	JA0DAE/9 & JA0RUZ/7	2012-07-28
Locations PM86JM and PM99WW - DVB-S - AR Sys and SR-Sys exciters		
341 KM	JL1BLF & JH1GED	2011-08-06
Locations Mont Chokai-san and Mont Kashimayari-gatake - DVB-S SR-Systems		
287 KM	JA0RUZ/9 & JA4JKE/4	2018-06-02
ISDB-T - JA0RUZ using XHAED-2 TX - JA4JKE use HV-320J - at 500mw final out Locations PM86JS (Tottori City) and PM75AM (Mt Hodatsu)		
167 KM	JA0RUZ & JA0RGP	2020-08-10
ISDB-T protocol - 64QAM OFDM FHD with self-made TX at 500mw final out Locations PM96FV (Nozawa Onsen Ski Resort) and PM98RE (Murikami City)		
3.4 GHz		
154 KM	GW4CBW/P & G3NWR/P	2018-06-10
DVB-S at 333 KS/s RB-DATV. Locations IO83FD and IO84ML		
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		
903 KM	IZ5TEP/IT9HZM & IT9GA/IW9GUR	2022-05-15
DVB-S2 at SR=333 KS/s Pluto at 20W and Minitiouner (both ends) Locations JN44GK83 (Monte Beigua) and JM78RE58 (Monti Peloritani in Sicilia)		
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		
379 KM	VK3RTV(Repeater) & VK7EM	2011-02-23
(operators VK3BFG, VK3DQ, VK3WWW and VK3TRX) Locations Mount Dandenong, Victoria and Penguin, Tasmania		

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1.2 GHz - continued		
252 KM	JA5GYU & JA6JNR	(1 Watt) 2009-11-03
70 CM		
903 KM	IZ5TEP / IT9HZM & IT9GA / IW9GUR / IW9ARO	2022-05-15
DVB-S2 at SR=333 KS/s Pluto at 20W w/ 15-ele Yagi and Minitiouner (both ends) Locations JN44GK83 (Monte Beigua) and JM78RE58 (Monti Peloritani in Sicilia)		
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)		
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)		
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)		
403 KM	PI4D to G4YTV (one way)	2020-08-22
DVB-S2 at 125 KS/s using H265 with FEC=1/2 on 144.600 MHz. (100W into Yagi) Locations Dordrecht, Netherlands and IO93UU82FR (East Yorkshire, England)		
380 KM	PA0JCA to G4YTV (one way)	2020-08-22
DVB-S at 125 KS/s using H264 with FEC=1/2 on 145.300 MHz. (80W into 4el Yagi) Locations Amstelveen Netherlands and IO93UU82FR (East Yorkshire, England)		
313 KM	G1UGV & 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 G1UGV. 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)		
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)		
50 KM	MØDTS & GØLPS	2015-02-21
H.264 video - protocol DVB-S at 333 KSymb/s using experimental DATV-Express transmitters & MiniTiouner RB-DATV receivers. 146.5MHz UK temp band allocation Locations North York Moors, England and Spennymoor (County Durham) IO94EQ		
70 MHz		
230 KM	G4FRE to G4FRE/P (one-way)	2018-12-27
DVB-S protocol - Pluto xmtr at 250 KSymb/Sec with FEC=7/8 and 5-ele beam Locations Malvern (IO82UC) to Isle of Sheppey (JO01KK)		
160 KM	G8GTZ/P & G4FRE/P	2018-12-09
DVB-S protocol - Portsdown 125 KSymb/Sec FEC=7/8 & 5-ele beam on 71.0 MHz. Locations Win Green (IO80WX) and Titterstone Clee (IO82QJ)		
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)		
50 MHz		
1,760 KM	PE1ASH with IO9DATV (team)	2022-06-11
(team = IW9ARO, IT9FUR, IW9GUR, IT9GAJ, IT9GNJ, IT9SWH) 6M-Es DVB-S2 protocol - Pluto / Minitiouner 125 KSymb/Sec FEC=2/5 & 4-ele quad Locations Netherlands (JO22KF40OE) with Monti Peloritani in Sicilia (JM78RE)		
140 KM	G4FRE/P & G8GTZ/P	2019-04-06
DVB-S2 protocol at 250 KSymb/Sec with FEC=1/2 G4FRE used Portsdown/MiniTiouner with 5-ele F9FT yagi Locations Titterstone Clee (IO82QJ) and Walbury (IO91GI)		