

Known Digital-ATV DX Records updated 2023-06-22 by Ken W6HHC			Known Digital-ATV DX Records - Page 2 updated 2023-06-22 by Ken W6HHC		
<b>76 GHz</b>			<b>1.2 GHz - continued</b>		
<b>35.6 KM</b>	G8GTZ/P & G4LDR/P	2019 01 28	<b>252 KM</b>	JA5GYU & JA6JNR (1 Watt)	2009 11-03
DVB-S2 at 333 KS/s RB-DATV. Locations Coombe (IO91GI) and Cheesefoot Head ( IO91JB)					
<b>12 KM</b>	G8GTZ/P & G4LDR/P	2018 06 10	<b>70 CM</b>		
DVB-S at 250 KS/s RB-DATV. Locations IO90LX and IO90LU			<b>903 KM</b>	I25TEP / 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)		
<b>47 GHz</b>			<b>696 KM</b>	F1FY to G8GTZ	2013 09 24
<b>115 KM</b>	JA0RGP/0 & JA0RUZ/0	2015-06-07	(DVB, S 2MS/sec FEC=1/2 . . . one way reception)		
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)			<b>696 KM</b>	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)		
<b>24 GHz</b>			<b>643 KM</b>	DL/PE1ITR & M0DTS/P	2022-11-13
<b>136 KM</b>	G8GTZ/P & G4FRE/P	2019-06-09	DVB-S2 SR=250KS/s QPSK (PE1ITR) - Tropospheric ducting PE1ITR used 200W and 2x16ele yagi with Minitiouner receiver. M0DTS - DVB-S2 SR=333KS/s QPSK FEC=2/3 using 25-ele yagi w/ 17W Locations JO30DQ (Germany by Zweifall/Lammersdorf) & IO94LI (North York Moors)		
DVB-S2 Protocol - 333KS/s FEC=1/2 approximately 0.5 watt, 60cm dishes Locations Dunkery Beacon (IO81FD) and Cleeve Common (IO81XW81)			<b>501 KM</b>	W4HTB & WB8LGA	2014 07 26
<b>124 KM</b>	JA6DME & JA6EES	2011 11 12	(DVB-T QPSK FEC=1/2 2 MHz Bandwidth) - Tropospheric ducting Locations Bowling Green, KY and Marengo, OH		
Locations Mont Ten Zan and Mont Ge Zan			<b>235 KM</b>	G8GTZ & F9ZG	2016 06-12
<b>113 KM</b>	JA0RGP to JA0RUZ	2020-06-20	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)		
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)			<b>144 MHz</b>		
			<b>695 KM</b>	HB9/PE1ITR & PI4GN	2023-05-20
			airplane-scatter - DVB-S at 125 KS/s with FEC=1/2 (200W into 9-el Yagi) Minitioune Express at PE1ITR. PI4GN used 6x9el X-pol Yagi with 300W. Locations JN47CF (Witwil Switzerland) and JO33HJ (Rottum Netherlands)		
<b>463 KM</b>	JA0RUZ & JA0DAE	2012 07 28	<b>418 KM</b>	F/PE1ITR & ON7MOR	2023-05-19
DVB-S protocol SR-Systems excitor SR=6000 KS/s Locations Akita prefecture (Cold Wind Mt) and Toyama prefecture (Mt.Iozan)			airplane-scatter - DVB-S2 at 125 KS/s with FEC=1/2 (200W into 9-el Yagi) Minitioune Express at PE1ITR. ON7MOR used 6el Yagi with 300W. Locations JN38MA (France) and JO21GK (Nieuwmoer Netherlands)		
<b>450 KM</b>	HB9JBC & F4CXQ	2005 06 21	<b>407 KM</b>	M0DTS/P & G4UVZ	2018-10-24
Locations JN40CT (Sardinia) and JN12OH (Spain)			DVB-S at 333 KS/s RB-DATV. Locations IO94MJ (Danby Head) and IO80KX (Hollybank Blagdon Hill)		
<b>407 KM</b>	M0DTS/P & G4UVZ	2018-10-24	<b>336 KM</b>	LX/PE1ITR & PA3BYV	2022-08-21
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)			mainly airplane-scatter - DVB-S at 66 KS/s with FEC=2/3 on 144.600 MHz. (200W into 9-el Yagi) w/ Portsdown TX and Minitiouner Express at PE1ITR. PA3BYV used 125 KS/s with FEC=1/2 with 100W into dual-band Yagi using 11-ele on 144 MHz. Locations JO30BA (Luxembourg) and JO32NX (Netherlands)		
<b>258 KM</b>	F1MPE/P & HB9AFO	2019-09-14	<b>294 KM</b>	G0MJW/A & G8LES	2016-12-29
DVB-S at 333ks/s using Portsdown exciter - HB9AFO w/ 8W out and 1M dish Locations JN26JL and JN36GN reflections against Mont Blanc			tropo-ducting - H.264 video - DVB-S protocol at 125 KSym/s with DATV-Express and 9-ele yagi at G0MJW. 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)		
			<b>50 KM</b>	M0DTS & G0LPS	2015 02-21
			H.264 video - protocol DVB-S at 333 KSym/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		
<b>5.7 GHz</b>			<b>230 KM</b>	G4FRE to G4FRE/P (one-way)	2018 12-27
<b>464 KM</b>	JA0DAE/9 & JA0RUZ/7	2012 07 28	DVB-S protocol - Pluto xmtx at 250 KSym/Sec with FEC=7/8 and 5-ele beam Locations Malvern (IO82UC) to Isle of Sheppey (JO01KK)		
Locations PM86JM and PM99WW - DVB-S - AR Sys and SR-Sys excitors			<b>160 KM</b>	G8GTZ/P & G4FRE/P	2018 12-09
<b>341 KM</b>	JL1BLF & JH1GED	2011 08 06	DVB-S protocol - Portsdown 125 KSym/Sec FEC=7/8 & 5-ele beam on 71.0 MHz. Locations Win Green (IO80WX) and Titterstone Clee (IO82QJ)		
Locations Mont Chokai san and Mont Kashimayari gatake - DVB-S SR-Systems			<b>136.6 KM</b>	G8VPG & G4BVK	2018 09-14
<b>287 KM</b>	JA0RUZ/9 & JA4JKE/4	2018-06-02	H.265 video - DVB-S protocol at 333 KSym/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)		
ISDB-T - JA0RUZ using XHAED-2 TX - JA4JKE use HV-320J - at 500mw final out Locations PM86JS (Tottori City) and PM75AM (Mt Hodatsu)			<b>70 MHz</b>		
<b>167 KM</b>	JA0RUZ & JA0RGP	2020-08-10	<b>1,760 KM</b>	PE1ASH with IO9DATV (team)	2022 06-11
ISDB-T protocol - 64QAM OFDM FHD with self-made TX at 500mw final out Locations PM96FV (Nozawa Onsen Ski Resort) and PM98RE (Murikami City)			(team = IW9ARO, IT9FUR, IW9GUR, IT9GAJ, IT9GNJ, IT9SWH) 6M-Es DVB-S2 protocol - Pluto / Minitiouner 125 KSym/Sec FEC=2/5 & 4-ele quad Locations Netherlands (JO22KF400E) with Monti Peloritani in Sicilia (JM78RE)		
			<b>140 KM</b>	G4FRE/P & G8GTZ/P	2019 04-06
			DVB-S2 protocol at 250 KSym/Sec with FEC=1/2 G4FRE used Portsdown/Minitiouner with 5-ele F9FT yagi Locations Titterstone Clee (IO82QJ) and Walbury (IO91GI)		
<b>3.4 GHz</b>					
<b>154 KM</b>	GW4CBW/P & G3NWR/P	2018 06 10			
DVB-S at 333 KS/s RB-DATV. Locations IO83FD and IO84ML					
<b>2.4 GHz</b>					
<b>~ 1000 KM</b>	OR4ISS to I0KPT (one-way)	2014-03-08			
<b>~ 1000 KM</b>	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					
<b>903 KM</b>	I25TEP/IT9HZM & IT9GA/IW9GUR	2022-05-15			
DVB-S2 at SR=333 KS/s Pluto at 20W and Minitiouner (both ends) Locations J)22KG16ST (Monte Beigua) and JM78RE58 (Monti Peloritani in Sicilia)					
<b>1.2 GHz</b>					
<b>454 KM</b>	PE1CVJ & M0DTS/P	2023 06 10			
DVB-S2 at SR=125 KS/s FEC=1/2 QPSK H.264 Portsdown4/LimeMini and Minitiouner Locations JO22KG16ST (Amstelveen NL) & IO94LI24QV (UK) (2 hr tropospheric reflections)					
<b>419 KM</b>	G4KLB & M0DTS	2010 10 11			
Locations Boumemouth, England and Yarm, England					
<b>379 KM</b>	VK3RTV(Repeater) & VK7EM	2011 02 23			
(operators VK3BFG, VK3DQ, VK3WWW and VK3TRX) Locations Mount Dandenong, Victoria and Penguin, Tasmania					