



Week 3 - Session 5

CW Academy

- Go over h/w and on air activities
- On the air – its winter contest season!
 - CQ 160m CW
 - Winter Field Day
 - Lots of DX!
- Anatomy of a QSO – Part 1
 - Hit and Run
 - Short and Sweet QSOs
- Tonight: Short QSOs
 - DX/POTA/SOTA, etc.
 - Each student gets to run and others call



“Hit and Run” QSOs

- By convention, a valid QSO must exchange some type of information in addition to call signs
- The minimal amount of “information” is a signal report (however meaningless it might be)
- Example – A “rare” DX station running a pile-up
 - His goal is to work as many stations as possible
 - Your goal is to bag an ATNO

CQ 3B7M UP

WB3ERS 5NN

R 3B7M UP

WB3ERS

TU 5NN



- Contest exchanges (and FT4/8) obviously fall into this category also



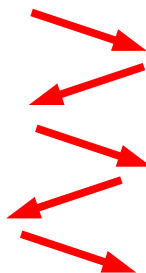
Short QSOs

- Special Event, POTA, SOTA, etc. ops also are generally trying to work as many stations as possible so they might only send a 5NN signal report (or RST + STATE)
- Some ops will exchange more meaningful information quickly (e.g. Actual RST+STATE+Op NAME)
- Example – A not-so-rare DX station who's not in a hurry

CQ CQ CQ SV2HUD SV2HUD

KC6EOA GM 559 OP VAS VAS BK

QSL BRAD TNX ES 73



KC6EOA KC6EOA

GM VAS UR 569 569 IN CA CA OP BRAD BRAD BK

TU VAS 73 GL

- He may or may not want to engage further depending on conditions (QSB, QRN, etc.) or demand



Week 3 - Session 6

CW Academy

- Go over h/w and on air activities
- On the air:
 - CQ 160m CW
 - Winter Field Day
 - Lots of DX!
- Chasing DX
 - The bands have come back to life!
 - DXpeditioners are traveling again
 - Look for increased activity in the fall & winter, especially in the days surrounding the major International contests



Chasing (Rare) DX

CW Academy

- This is quintessential ham radio and, for many, its most exciting aspect
- CW is the best mode for working weak stations rapidly
 - For better or worse, much DX activity has migrated to FT8
 - Most DXpeditions will include CW as part of their efforts
 - Occasionally, a smaller DXpedition will not use CW so you need to be flexible
- Your QRQ and contesting skills will serve you well!
- The Internet and SDR have changed the landscape
 - Instant pile-ups once a rare station is spotted
 - A Panadapter gives you “situational awareness”
 - Can do this to some extent with dual VFOs or XIT/RIT
 - Radios with dual receivers are an advantage
 - Consider using a WebSDR, be creative!
 - Embrace it and use it to your advantage!



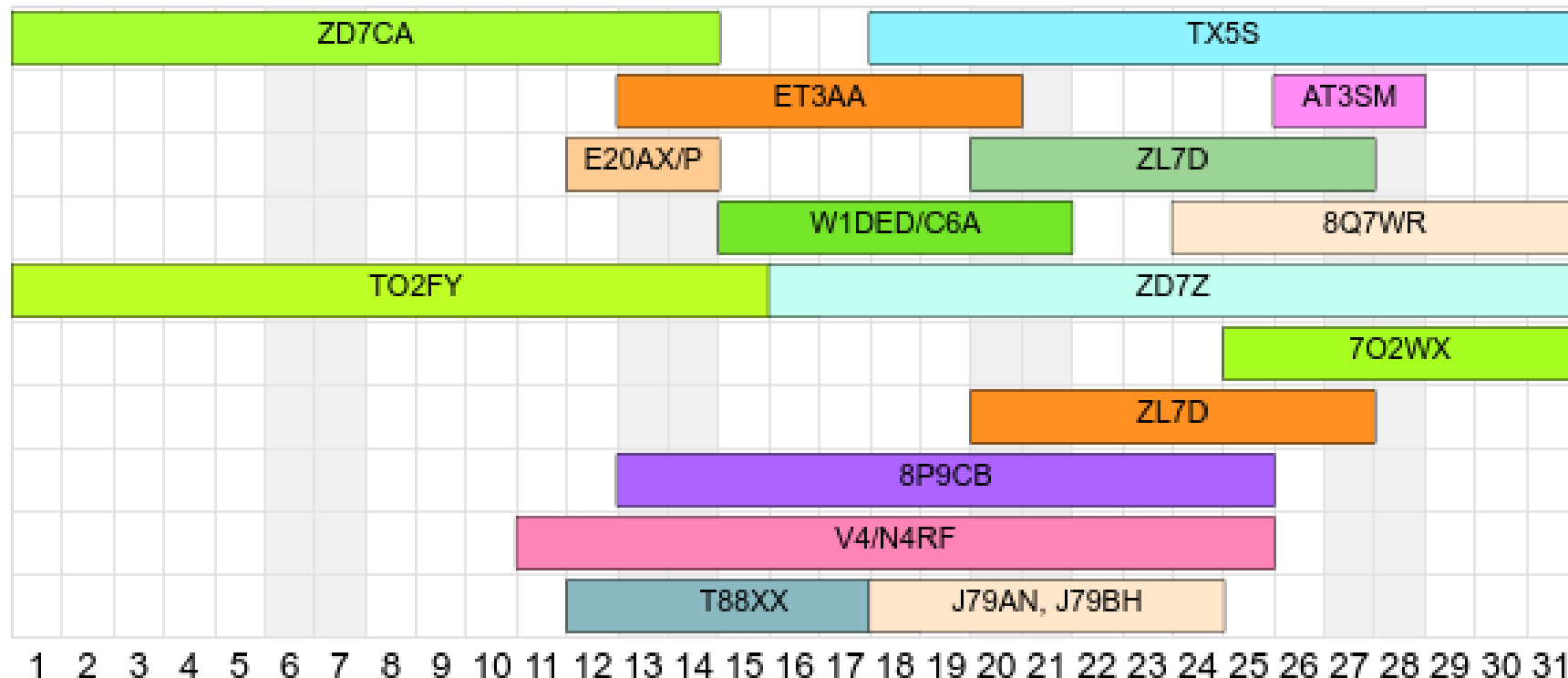
Up-coming DXpeditions

CW Academy



FEATURED DXPEDITIONS TIMELINE

Last update: January 15, 2024





Chasing DX (cont.)

- **Do:**

- **Listen Listen Listen and Listen** some more !!!!!!!!!!!!!!!!!!!!!!!!!!!!!
- Make sure you can hear him and verify his call!
- Figure out his timing and where he is listening – and then transmit accordingly
 - Often listening UP 1-KHz or more, depending on demand
- Use full QSX (break-in) and “Split”
 - Learn how to rapidly use dual VFOs and/or XIT/RIT functions on your rig
- Be courteous and concise
- Understand Propagation and Be Patient
- Take a look at QRZ.com and/or the DXpedition website for operating plans and QSL info

- **Don't** be the lid who:

- Tunes up and/or transmits on top of the DX!!!
- Continues to operate simplex when the DX is running split (TX5S **UP**)
- Continues to call when the DX is clearly calling someone else
- Thinks he's the “DX Police” (These guys usually cause more QRM than the errant simplex op!)



My Contact with D60AE (Comoros) Fall 2022

CW Academy

- Turned on radio to participate in an SST
- Saw D60AE Spotted on 20m – clicked on it
- He was ~539 and a large pile-up extending up ~10 KHz
- Watched SDR waterfall to see who he was working and his patterns
 - About 7.5 KHz up, slowly moving down
- Set my rig to “split” while listening to a few more contacts
- Moved my XIT down a little more, threw out my call
 - After 4 or 5 tries, he came back with WW2IL
 - I sent AA2IL one more time, he responded correctly
 - Don't send him your exchange until he gets you call correct
 - Exchanged 5NNs and 73s
 - Confirmed “In the Log” the next day on Clublog
- Remember, my station is a “little pistol” - 100 W and wire antennas
 - ~10,500 miles distance



Contact with D60AE (Comoros)

CW Academy

Demod Audio - AA2IL

pyKeyer by AA2IL - FTdx3000

File

Call: **D60AE** RST out: **5NN** RST in: **5NN**

CQ AA2IL Reply OP QTH 73 BK Call? LOG it RST V Test

Macros: Default Speed: 25 FTdx3000 Send QRZ ?

Satellites: None +2 WPM -2 WPM

QSO Rate:

RX0: 14,025.3 KHz BCB SWL Ham 1 Ham 2 Ham VHF Ham UHF VHF SWL Bands Sate

Force a Hop

KOGO KFMB-AM KCBQ KFBK KFI KFMB-FM

KGB KSON 94.9 88.1 88.9 89.5

89.9 95.5 96.5 98.1 102.1 105.3

Pan-adaptor Mode Up/Down

Pan BW: 10 KHz

Dynamic Range: 50

Min Peak Distance: 10 KHz

☐ Use Peaks for Tuning ☐ Add Digi Offset

☒ Follow RIG Freq ☐ Follow RIG Band

☒ CLAR Follows SDR Freq ☐ VFO-B Follows SDR Freq

World Clock by AA2IL

23:46:52

Band Map by AA2IL - Server NC7J

Cluster

160m 80m 40m 20m 15m 10m

CW	Data	SSB	LSB	USB	Ant1	Ant2	Ant3	-1	+1	<
14006.0	MD/NU6F									21
14006.1	CUS/NU6F									22
14010.0	VK2ARZ									18
14022.1	UA8UV									27
14023.0	D60AE									31
14025.0	N7HCJ									18
14025.0	UA8LBF									26
14027.0	K1ETA									29
14030.1	AA3LX									29
14034.5	KH6DL									11
14036.0	W4DN									14
14036.0	W4DNN									15
14041.0	N5F									13
14045.0	N9G									20
14046.0	K3UQ									22
14050.0	AC1GF									19
14050.5	K6PB									15
14051.2	W5ZR									14
14051.9	WB0SND									19
14052.7	W8YD									15
14053.2	AF8A									13
14053.4	W4NLT									15
14054.0	AF4QK									15
14054.6	K4BAI									15
14055.4	N8KR									16
14055.4	N8KA									16
14055.8	JH1MTR/4									23
14057.0	WA8QJR									16
14057.4	KZ5H									15
14057.7	JF2LNC/2									18
14058.0	K6JSC									9
14059.0	KK4PB									14
										12
										15
										14
										15
										18
										14
										29

AA2IL/6	N2SO	UNITED STATES OF AMERICA	2022-10-01 18:39:51	2022-10-10 13:08:59	15M CW	
AA2IL	D60AE	COMOROS	2022-10-09 23:31:57	2022-10-10 06:36:34	20M CW	20M CW 20M CW
AA2IL	AC2YD	UNITED STATES OF AMERICA	2022-10-10 00:26:32	2022-10-10 03:21:46	20M CW	

