

Jon Marler - K4CHN - August 2022

# Amateur Radio Ham Nets 101

Introduction to amateur radio ham nets for new and old hams



# K4CHN / Jon Marler

Amateur Radio Operator / Hacker

- Passed Technician @ DefCon 27
- Passed General @ DefCon 28
- Passed Extra @ DefCon 29
- Vintage computer nerd
- Breaker and fixer of all things

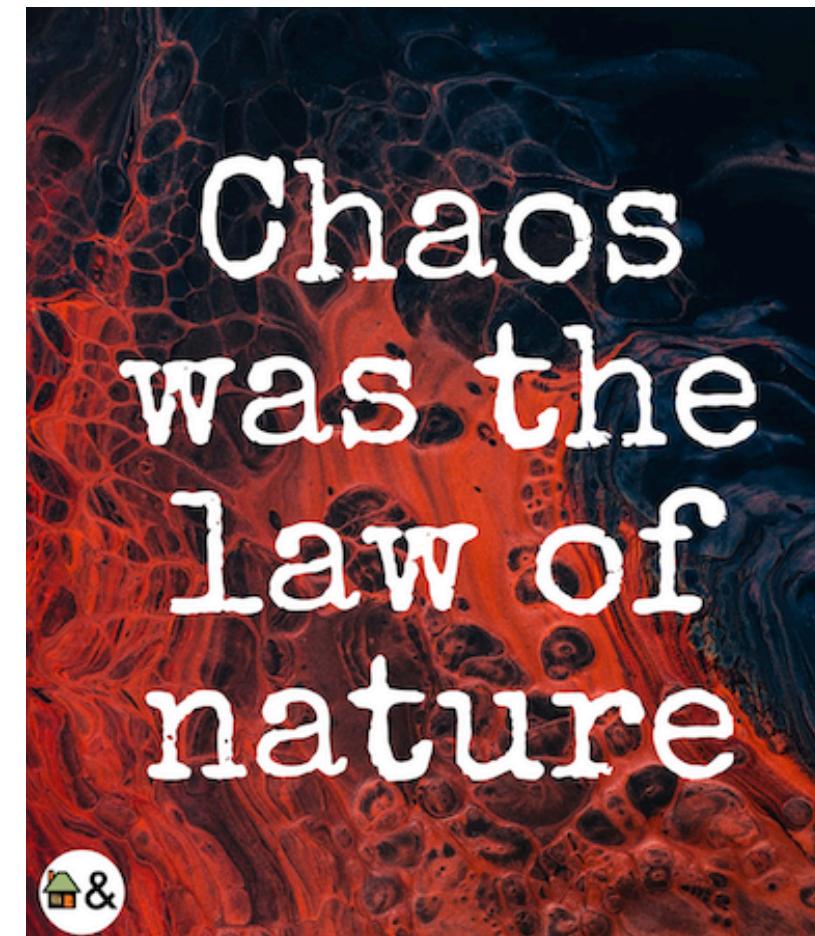


# Presentation Agenda

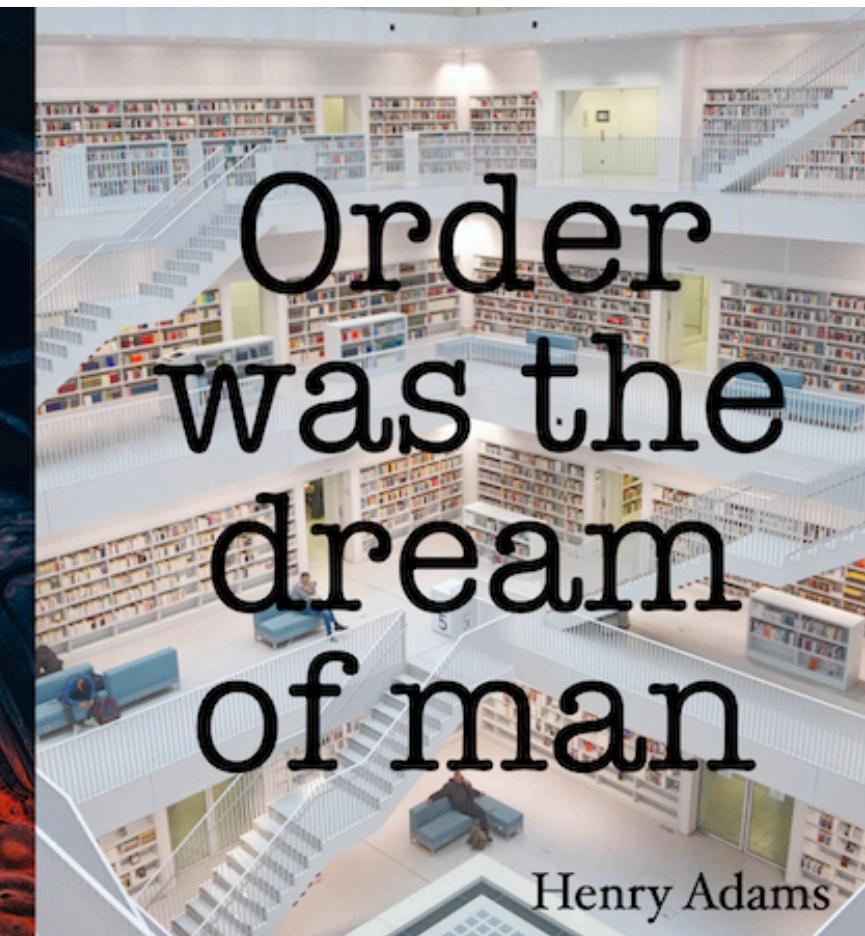
## Amateur Radio Digital Modes Primer



What is a Ham Net



Directed / Unirected

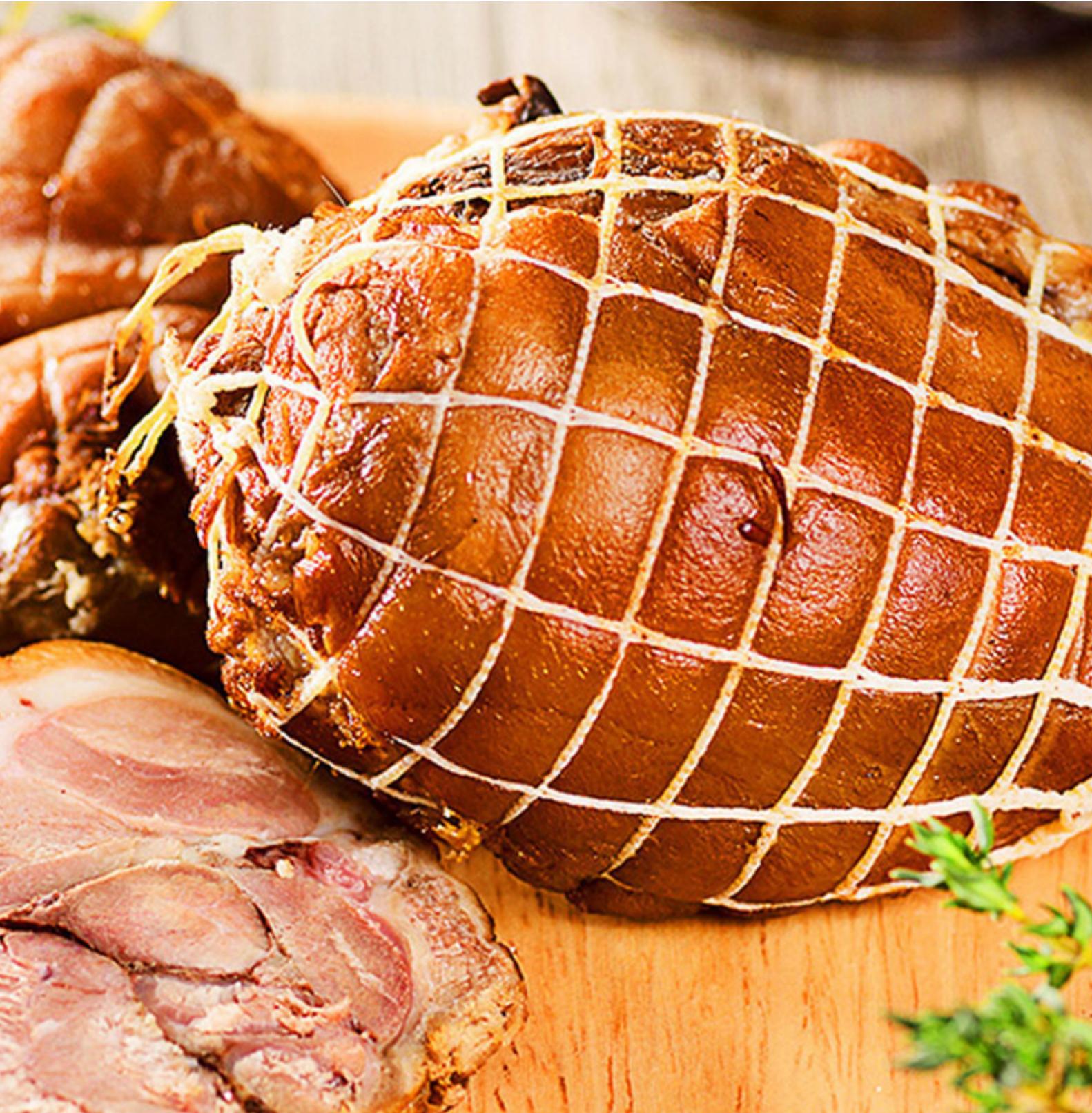


How to get started



# **What is a Ham Net?**

**What is an amateur radio ham net?**



# Directed Ham Nets

What is a directed / controlled ham net?

- Network Control Station (NCS)
- Rules, Protocols, and Procedures
- Registering
- Checking in
- Logging QSOs

OMISS



# Undirected / Uncontrolled Nets

## What is an undirected net?

- No NCS/NCO
- Rules, Protocols, and Procedures (LOL)
- Events
- Listen before you broadcast
- DefCon (and others) con net
  - 146.580 (Simplex)



**DEFCON**

# How to get started

Easy mode - NetLogger - [www.netlogger.org](http://www.netlogger.org)

NetLogger 3.1.7 - OMISS 40m SSB Net

UTC 01:53

Net Status and Control

NetLogger Mode MONITORING Net OMISS 40m SSB Net Profile OMISS Timeout 30

Operator K4CHN-JM Frequency 7.185 Mode SSB Band 40m NCS WA5CAT Logger WA5CAT

Net Activity

Stop Monitoring Start Logging AIM Window View Monitors Log Contact ➡ ➡

OMISS

Check-ins

#	Call Sign	M/P	State	Member Id	Remarks	QSL Info	City	Name	Status	RST Rcvd	RST Sent	County	Grid Square	Street	Zip	DXCC	Country
1	WA5CAT	NM	11055	NCS	V Q N QRZ-LOTW...	Alamogordo	ED	(nc)			OTERO	DM72	56 Da...	88310	291	United St...	
2	J72IMS	DX	13598	1ST NCS TRAINING		Portsmouth	ISHMAEL	(log)			Dominic...	FK5G	Chance	95	Dominica		
3	KB3ZVH	PA	10828		Mail/ EQSL	Erie	RICK				ERIE	EN92	419 O...	16505	291	United St...	
4	W7MMZ	MO	12063		E F T N QRZ-or-e...	GRAVOIS MILLS	DAVE	(rel)			Morgan	EM38	31844...	65037	291	United St... FR:EP	
5	WB1CMG	NH	1034		GIB-6 N EQSL-QR...	MONT VERNON	DAVID	(c/o)			HILLS...	FN42	19 HA...	03057	291	United St...	
6	A10A	IA	8641		E F V T Y Q N LoT...	Ogden	DAVE	(u),(rel)			BOONE	EN22	PO B...	50212	291	United St... FR:EP	
7	N5TLQ	AZ	12576		C eQSL-and-LoTW	Phoenix	RAMEY				Maricopa...	DM33	3140 ...	85053	291	United St... SC	
8	N1TKO	MA	5778		M F	HAVERHILL	JERRY				ESSEX	FN42	120 W...	01832	291	United St... MIL:M	
9	N9FB	IN	6907		T-LoTW--eQSL-or...	WHITESTOWN	ROB				BOONE	EM69	PO B...	46075	291	United St...	
10	WN4WDE	AL	12197		V T Y Q N QRZ-Lo...	Piedmont	DOC	(rel)			Calhoun	EM73	1097 ...	36272	291	United St...	
11	W9TLV	IL	9614		P GIB-Only	Streator	TOM	(c/o)			La Salle	EN51	607 F...	61364	291	United St...	
12	WA0O	M	11472		GIB-7 N	Saint Charles	JOE	(c/o)			SAINT ...	EM48	PO B...	63302	291	United St...	
13	W8TVO	MI	8937		GIB-4 M	HARISON TOWNSHIP	DANNY				MACO...	EN82	38122...	48045	291	United St... MIL:A	

Contacts

Call Sign Filter Remarks Filter Operator Filter  
Net Filter Member Id Filter Custom Filter

Current Station Location Default

Call Sign	M/P	Date	Time (UTC)	Frequency	Mode	Band	Preferred Name	Name	Member Id	DXCC	RST Rcvd	RST Sent	State	City	County	Grid Square	Sent Conf B <sub>j</sub>	Rcvd Conf B <sub>j</sub>	Remarks
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IM - OMISS 40m SSB Net

Almost Instant Messages

01:51 N1TKO-JERRY: LOL.... Scared me there for a minute!! LOL  
01:51 K6ODI MIKE: K15DAY  
01:51 WN4WDE-DOC: K15DAY  
01:51 W7MMZ-CAPT-DAVE: K15DAY

Type your message here.

# How to get started - MOAR

## More ways to find a net to participate in

- NetLogger - <https://www.netlogger.org>
- ARRL Net Directory - <http://www.arrl.org/arrl-net-directory>
- SMARC HF Net List - <https://smarc.org/hf-nets/>
- AC6V HF Nets - <http://ac6v.com/nets.php>
- N1YZ's Net List - <https://accio.me/N1YZ> (Google Spreadsheet)
- Hurricane Watch Net - <https://www.hwn.org> (During hurricanes only)
- DMR MARC - <https://dmr-marc.net>

# Stay in Touch

## How to stay in touch with me

- GitHub - <https://www.github.com/jmarler>
  - This presentation: <https://github.com/jmarler/DefCon30HRVPresentation>
- Email: [K4CHN@arrl.net](mailto:K4CHN@arrl.net)