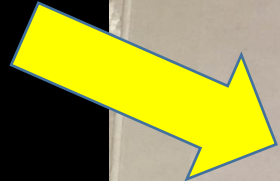


Station Notebook(s)

Mel Ming - N7GCO

#1



N7GCO
AMATEUR
RADIO
STATION
NOTEBOOK

#2

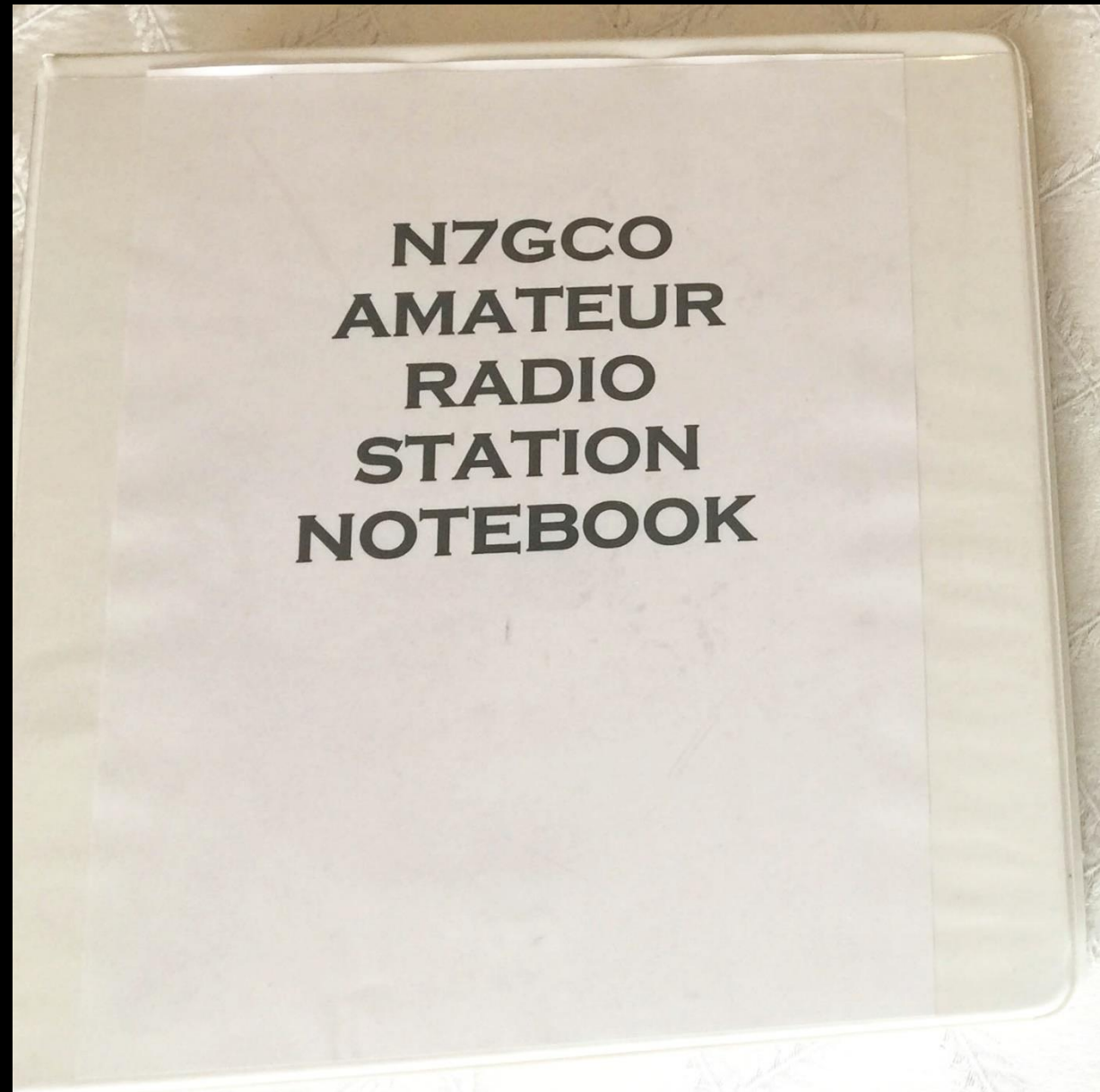


N7GCO
AMATEUR
RADIO
RESOURCE
&
REFERENCE
NOTEBOOK

Why have a Station Notebook?

1. Puts all your notes on your station in one place (Equipment serial numbers, Software license numbers, etc.)
2. Is reference to remind you of what you did and why (Example, What order you put your equipment in: radio, tuner, amp, SWR/Power meter)
3. Ready reference for procedures (Example, What are the settings I use for Winlink VARA FM with Icom 7100)
4. Should you become a silent key, this will be extremely helpful to whoever is helping your family sell your equipment.

#1 Station Notebook



#1.1. A list of all your equipment

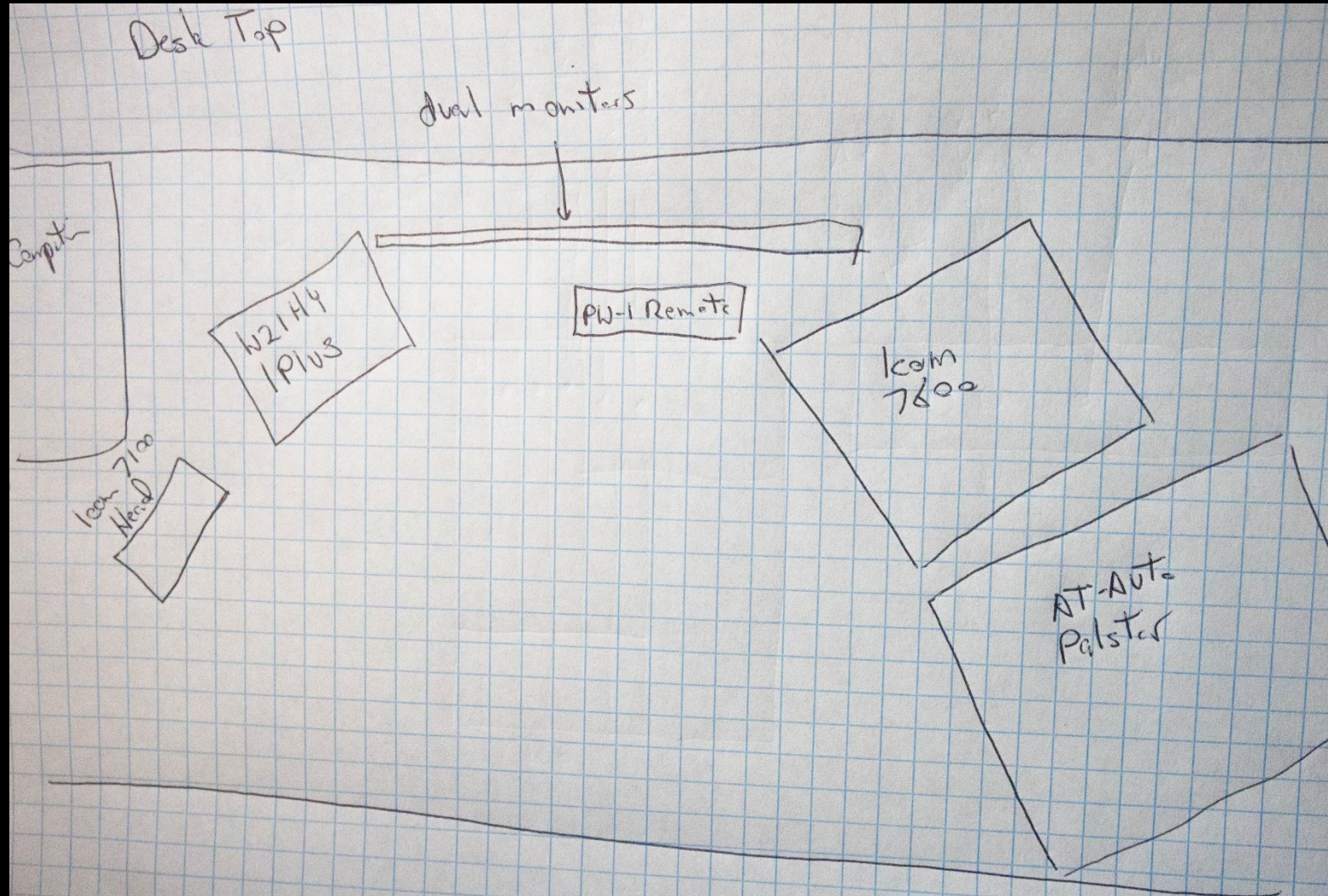
This should include:

- Equipment manufacture (Icom)
- Equipment model (IC-7600)
- Serial number (#0202XXX)
- Where purchased (Ham Radio Outlet-Portland)
- When purchased (11/19/2011)
- Cost (\$
- Where manuals are located (File Cabinet drawer #3)
- Where boxes are located (Top Shelf north side)
- Where extra parts are located (Second Shelf south side)

#1.1. A list of all your equipment

HAM GEAR INVENTORY						
ITEM	Serial #	Cost	Sale \$	Acquired	Date	Info
HF RADIOS & ACCESSORIES						
Icom 7600 (HF)	#0202732	\$ 3,000.00		HRO-Portland	11/19/2011	Binder on behind Shelf, File in Drawer #3, Box on top shelf behind
Icom 7100 (HF/VHF/UHF)	#02010848	\$ 829.95		MTC	3/6/2020	Binder on behind Shelf, File in Drawer #3, Box on top shelf
Kenwood TM-D710G (VHF/UHF) + TNC	#B8910097			HRO-Portland	11/24/2018	Binder on behind Shelf, File in Drawer #3, Box on top shelf
Icom 5100 (VHF/UHF)		\$ 728.95		HRO-Portland	5/16/2014	Binder on behind Shelf, File in Drawer #3, Box on top shelf
Icom 5100 (VHF/UHF)		\$ 650.00		Icom - Dayton		Binder on behind Shelf, File in Drawer #3, Box on top shelf
Icom 2300 (VHF)	#05020237	\$149.99		MTC	6/3/2020	Binder on behind Shelf, File in Drawer #3, Box on top shelf

#1.2. A Block Diagram of equipment



#1.3. Antenna descriptions

- **Manufacture** (Arrow)
- **Model** (OSJ 146/440 J-Pole)
- **Where it is located?** (Top of mast at 94')
- **How it is connected to station?** (Coax runs from Kenwood 710 outside shack to Alpha-Delta Lightning arrestor, DX Engineering MAX 400 Coax to base of tower 132', Alpha-Delta lightning arrestor, DX Engineering MAX 400 Coax up tower to grounding mount 90', Flex 213 Coax in rotator loop to antenna)

#1.4. Cable Labeling

Coax:DX Engineering MAX 400

- Steppir Red
- 160 Meter Inverted L Blue
- Butternut Hf2v White/Blue
- Antenna Switch White/Red
- #1 80 M Inverted V White/White
- #2 80 Meter Loop White
- #3 40/80 Inverted V White/Red
- #4 60 M Inverted V White/Yellow
- Ah-4 Dipole Red/Blue

VHF/UHF Antenna

- 2m/440 (J-Pole-Top of Tower) Yellow
- 2m/440 (Diamond on Tower) Yellow/Red
- 2m/440 (Comet By Garage) Yellow/Yellow

Receive Antennas

(DX Engineering Flooded RG6)

- Vertical Receive Antenna Blue/Yellow
- DHDL SE-NW Blue/Blue
- DHDL NE-SW Blue/Red

#1.5. SWR Measurements

80 Meter Inverted V ANTENNA ANALYSIS 4/27/2020

<u>Freq</u>	<u>SWR</u>
3.5	2.3
3.573	1.9
3.6	1.7
3.65	1.5
3.7	1.29
3.75	1.22
3.80	1.35
3.9	1.6
3.95	1.8

#1.6. Radio Memories

ID-5100 Programmer - Master 12 21 2018.ID5100

	Receive Frequency	Transmit Frequency	Offset Frequency	Offset Direction	Operating Mode	Name	Tone Mode	CTCSS
410	147.00000	147.60000	600 kHz	+DUP	FM	Waldport, Table	Tone	136.5 Hz
411	444.47500	449.47500	5.00 MHz	+DUP	FM	Waldport, Table	Tone	103.5 Hz
412	147.00000	147.60000	600 kHz	+DUP	FM	Waldport	None	88.5 Hz
413	444.47500	449.47500	5.00 MHz	+DUP	FM	WALDPORT	Tone	103.5 Hz
414	444.75000	449.75000	5.00 MHz	+DUP	FM	Newport	Tone	118.8 Hz
415	442.60000	447.60000	5.00 MHz	+DUP	FM	Lincoln City	Tone	118.8 Hz
416	444.75000	449.75000	5.00 MHz	+DUP	FM	Newport, Otter C	Tone	118.8 Hz
417	145.39000	144.79000	600 kHz	-DUP	FM	Newport, Otter C	Tone	136.5 Hz
418	145.37000	144.77000	600 kHz	-DUP	FM	Newport, Cape Fo	Tone	167.9 Hz
419	145.47000	144.87000	600 kHz	-DUP	FM	Newport, Courtho	Tone	167.9 Hz
500	145.19000	144.59000	600 kHz	-DUP	FM	SPRAGUE	None	88.5 Hz
501	146.72000	146.12000	600 kHz	-DUP	FM	RITZVILLE	None	88.5 Hz
502	443.70000	448.70000	5.00 MHz	+DUP	FM	Lind Hill	Tone	123.0 Hz
503	147.14000	147.74000	600 kHz	+DUP	FM	COLLEGE PLACE	Tone	94.8 Hz
504	145.35000	144.75000	600 kHz	-DUP	FM	Othello	Tone	100.0 Hz
505	146.62000	146.02000	600 kHz	-DUP	FM	PASCO	Tone	123.0 Hz
506	147.08000	147.68000	600 kHz	+DUP	FM	KENNEWICK	Tone	94.8 Hz

#1.7. Serial Port Settings

- #2 CIV (Icom CT-17 or USB)
- #3 Yaesu Rotator/PST RotatorAz (Rotorcard DXE)
- #5 Sound Mixer (Behringer Xenyx 1204 USB)
- #6 Silicon Labs USB to UART Bridge (Icom 7600 USB) –
(Only shows when Radio is on)
- #7 WaveNode WN-2d
- #8 USB Serial Port (Kenwood TM-D710GA) (TNC)
- #10 Silicon Labs USB to UART Bridge (Icom 7100 USB)
- #11 Silicon Labs USB to UART Bridge (Icom 7100 USB)

•

#1.8. Audio Port Settings

Icom 7600 Microphone (3-USB Audio USB Codex)

Icom 7600 Speaker (3-USB Audio USB Codex)

Icom 7100 Microphone (2-USB Audio USB Codex)

Icom 7100 Speaker (2-USB Audio USB Codex)

Mixer Microphone (5-USB Audio Codex)

Mixer Speaker (5-USB Audio Codex)

#1.9. QTH Information

- Latitude 47.535325
- Longitude -117.465126
- Grid Square DN17gm
- CQ Zone 3
- ITU Zone 6
- ARRL Section EW

#1.10. Maintenance Schedule

Every Summer

- Check guy tension on tower
- Check all coax cables and connections
- Check all ground rods and attachments

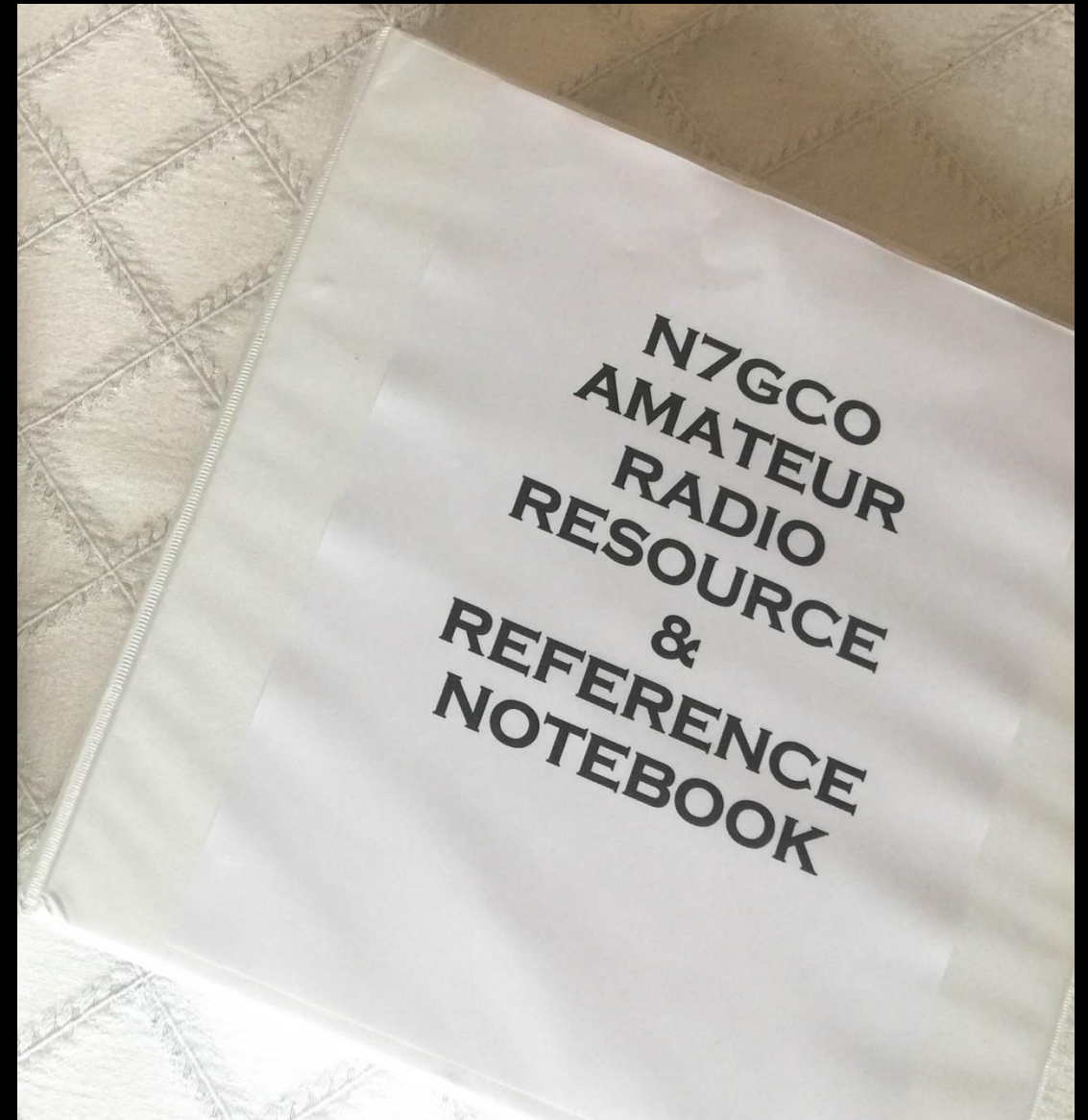
Every Quarter

- Check SWR on all antenna's
- Vacuum Computer and amp
- Dust all equipment
- Check all Shack Coax and power connections

#1. Station Notebook

1. Serial Port Settings
2. Coax Color Codes & Info
3. Equipment Inventory
4. Station Layout Drawings
5. QTH Information
6. Maintenance Schedule
7. Grounding/Lightening
8. Antenna: 160 inverted L
9. Antenna: 80 Inverted Vee
10. Antenna: 80 meters Full Loop
11. Antenna: 60 m inverted Vee
12. Antenna: Butternut 80 Meter Vertical
13. Antenna: Butternut 40 Meter Vertical
14. Antenna: Alpha Delta 40/80
15. VHF/UHF Antenna Info
16. Radio: Icom 7100
17. Radio: Icom 7600
18. Radio: Kenwood 710
19. Radio: Icom 2300
20. Radio: Icom 5100
21. Radio: Icom 51A
22. Radio: Icom 32
23. AT-AUTO (Kessler)
24. Behringer Mixer
25. IPlus and other audio

#2: Reference & Resource Notebook



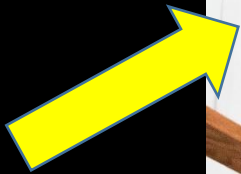
#2: Reference & Resource Notebook

1. QTH Information
2. Serial Port settings
3. Antenna Color Code
4. Check Lists (Winlink)
5. Check Lists (FT8/FT4)
6. Check List (RTTY)
7. N3FJP serial numbers and information
8. Phonetics
9. Time Conversion charts
10. Metric Conversion charts
11. Band plans

#2: Reference & Resource Notebook

1. QTH Information
2. Serial Port settings
3. Antenna Color Code
4. Check Lists (Winlink)
5. Check Lists (FT8/FT4)
6. Check List (RTTY)
7. N3FJP serial numbers and information
8. Phonetics
9. Time Conversion charts
10. Metric Conversion charts
11. Band plans
12. Digital Frequencies
13. Worked All States/US Info
14. DXCC entities needed for each band
15. DX Prefixes
16. ARRL/US Abbreviations
17. CQ Zones
18. ITU Zones
19. CW Abbreviations
20. Q-Codes
21. LoTW
22. Hams I know

Station
Notebooks



Sources used in developing this:

Ward Silver, "How to Maintain Your Ham Radio Station"
from *Ham Radio for Dummies*.

On-the-bands March-April Issue 2020 "Station
Improvements: Inside During the Winter" ARRL

Wayne Greaves W0ZW from DX Hunter April 2017

Questions?

**N7GCO
AMATEUR
RADIO
STATION
NOTEBOOK**

**N7GCO
AMATEUR
RADIO
RESOURCE
&
REFERENCE
NOTEBOOK**

Mel Ming – N7GCO