Field Day 2016
Operations Introduction & Station Configurations

Jim Marr, AA6QI
June, 2016
FD2016 Schedule

• Friday, June 24th: Teams pack up gear for transport to FD site the next day.

• Saturday, June 25th:
  – 7 a.m. Setup begins at the Art Center south parking lot to unpack vehicles and commence setup.
  – 11 a.m. Field Day contest operations begin.
  – Lunch, BYO or buy at the Art Center cafeteria.
  – 6 p.m. Pot luck dinner at the FD site. Sign up to bring something!
    • [http://www.signupgenius.com/go/30e0f4baba72da64-field1](http://www.signupgenius.com/go/30e0f4baba72da64-field1)

• Sunday, June 26th:
  – 8 a.m. Pancake breakfast at the FD site.
  – 11 a.m. Field Day contest ends and takedown begins.
  – Lunch, BYO.
• FD event in the Art Center parking lot.
• 2016 rigs (TBD):
  – 1-CW (JPL/CIT)
  – 2-SSB (JPL/CIT)
  – 1-SSB (PRC)
  – 1-Satellite (PRC)
  – 1-VHF (PRC)
• Meals:
  – Saturday Lunch at the Art Center Cafeteria
  – Pot luck dinner 6pm Sat
  – Pancake breakfast 8am Sun

June 2016
Field Day 2016 Site Layout

**NOTE:**
CW/SSB Tent to be located outside of the CW/SSB Tower fall zone (>~50ft).

- **EU2000 Generator**
- **Force12/C3S 20m/15m/10m Coax Power**
- **CW & FT-991 STN**
- **Comm Van**
- **JPLARC/CITARC CW & FT-991 SSB phone station**
- **JPL CommVan FT-897 75m/160m SSB phone**
- **PRC setup (40m SSB phone, VHF, Satellite)**

**Trailer**

- **80m/40m dipole**
- **Tree tie-off**
- **50’ Crank-up Tower**
- **Force-12 C3S Yagi 20m/15/10m Guys to trees**

**CW & FT-991 SSB Station**
Field Day Exchange

• Stations exchange:
  – Call Sign: **W6KA** (Whisky Six Kilo Alpha)
  – Operating Class: **4A** (Four Alpha)
  – ARRL Section: **LAX** (Lima Alpha X-ray)

• Operating techniques:
  – Search & Pounce:
    • Tune around to find stations to call
  – Camp & Call
    • Select an open frequency and call CQ Field Day
      – E.g. “Whisky Six Kilo Alpha, Field Day”
• Watch the quick-start video (1/2 way down the page) at:
  – http://www.n3fjp.com/fieldday.html

• Key Operating Points:
  – When first starting your operations, enter your Call and Initials (see next slide).
  – Enter Call, Class & Section in the field at left center (see slide after next)
  – Look for Duplicates in the lower left corner (see slide after next).
    • Note: PRC is allowing duplicates.
PRC Logging S/W (1 of 2)

• Entering Operator Information
• PRC uses N3FJP’s FD logging s/w in standalone mode.

ARRL Sections (below) turn blue when first worked

Data Entry Area

Message Area

Possible Dups listed as call is entered above

All ARRL Sections
## CW Station N3FJP
Winkeyer Function Keys

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Typical Exchanges:

**Calling CQ:** F1; enter responding station in CALL FIELD; F2; receive Class & Section from other station; F3; F4; if no calls, then back to start.

**Call is a DUPE** as shown on the main page: F6

**Answering CQ:** F4 (as often as needed); record other stations call, class & section on main page; F5

**Repeat something:** F7 AGN; F8 ?; F9 CALL; F10 CLASS; F11 SECTION; F12 for keyboard entry - ESC to exit.

Set keyer speed using WKUSB_SMT pot.

Set speaker frequency to 666 Hz (NOT 800 Hz, which drives me crazy)

### N3FJP KEYBOARD Shortcuts:

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Signing Up to Operate

• Select and schedule your operating time on this station via the SignUpGenius link distributed separately.

• Station is set up so that one person can conveniently both operate and log (that’s why we have the Heil ProSet and foot switch).

• Two signups are provided for each one-hour time slot.
  – It’s up to the two operators as to how they want to operate (i.e. one operate while one logs OR take turns operating/logging during that time slot).
  – Just make sure that each operator enters their call and first name into the N3FJP software before beginning their turn at operating.
Station Configurations

FT-1000D – CW (80m/40m/20m/15/10m)
FT-991 – 20m/15m SSB phone
FT-897 – 75m/10m SSB phone
IC-7410 – 40m SSB phone
FT-1000D CW Station
Located in CW/SSB Tent

• Need to operate FT-1000D under 150W to stay within PRC’s field day category.
• Need to properly adjust ALC to minimize key clicks (next page)!

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The FT-1000D manual procedure for adjusting these controls for CW operation is as follows:

- Set RF-PWR (the outer ring on control 7 in Figure-1) to about 12 o’clock.

- Switch the meter control (knob 3 in Figure-1) to the ALC position and adjust the Drive control (the outer ring on control 8 in Figure-1) to set the ALC to about mid scale (roughly 12 o’clock, right at the top of the blue bar on the meter ALC scale – the bottom scale on the meter).

- Switch the meter control to the PO position and adjust RF-PWR to set the desired power (0 to 200W) and, if the RF-PWR control was changed very much from the 12 o’clock position set above, go back and readjust the Drive to set the ALC back to near the top of the blue ALC band.

The notes with the W8JI mod suggest reducing the DRIVE to soften key clicks. W8JI’s advice is: “Anything from ½ scale to full scale [ed.- of the blue band on the ALC] is a normal [ed.- CW] waveform. For lowest clicks, adjust DRIVE until ALC registers ¼ scale on the blue area of the meter ALC scale. More ALC creates harder waveform, less ALC creates a softer waveform.”

Thus, with the W8JI key click mod, adjust DRIVE and RF-PWR as per the manual and then back off the DRIVE to reduce ALC somewhat (even as far as ¼ scale) for minimum key clicks.
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FT-991 (10)/15/20m SSB Station
Located in CW/SSB Tent

- AA6QI
  - Heil Pro Set
  - Adaptor
  - USB Cable (for CAT)
  - PS-3
  - Foot Switch
  - Stereo Y
  - Phones
  - Mic

- AA6QI
  - Bose QC-2

- HRO FT-991 (built in antenna tuner)

- Shared HF Antenna

- PRC Laptop
- N3FJP S/W

- 117V AC

- EU2000 Generator

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Shared HF Antenna System
Requires coordinated band use!

Switchable Band Pass Filter (CITARC)
On 80m/40m dipole

UP to four HF Transceivers on four Different bands

FT-1000D CW (all bands) and FT-991 SSB (10/15/20m)

KJ6NO’s Dunestar M333-P
HF Diplexer plus Bandpass filters

CITARC Force-12 C3S Yagi Plus
JPLARC 80m/40m Dipole
FT-897 (10)/80/160m SSB Station
Located in the JPL Comm Van

- JPLFT-897
- AA6QI Bose QC-2
- AA6QI AD-1 YM Adaptor
- AA6QI Heil Pro Set
- AA6QI LDG AT-100proII Antenna Tuner
- AA6QI Wall Wart 12V >500mA
- AA6QI USB CAT Cable
- AA6QI Cha-Emcomm-II Wire Antenna
- JPL CommVan 12V DC Supply
- N3FJP S/W
- PRC Laptop
- JPL CommVan Honda 6kw Generator

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PRC’s IC-7410 40m SSB Station
Located at south end of parking lot

W6TAG’s IC-7410 transceiver
USB data cable
117V AC
TBD 13.8V Power Supply
117V AC
PRC Laptop
PRC EU2000 Generator
40m dipole

N3FJP S/W

W6VIO
WA0POD’s Satellite Station

Other station details TBD

WA0POD FT-847 transceiver
Questions Before Field Day?

Send me (Jim Marr AA6QI) an email at: aa6qi@arrl.net