

# San Mateo County Simplex Drill Instructions

Saturday, April 14, 2018

On Saturday, April 14, 2018, beginning at 0900 hours PDT. We will conduct two (2) San Mateo County-wide Simplex Propagation Drills, the 2-meter starts at 0900 hrs, and the 6-meter SSB starts immediately following the 2-meter drill.

**Both drills will ONLY include "Registered Stations".**

## 2-METER DRILL INFORMATION

### Check-In

The 2-meter drill "check-in" utilizes the **146.865 MHz** KC6ULT, and **146.925 MHz** WA6TOW (**minus offsets, PLs 114.8 Hz**) repeaters to coordinate this drill on 50-watts.

### Drill Transmission

2-meter drill includes "Registered Stations" on 50-watts simplex, PLs 114.8 Hz

The 2-meter simplex propagation utilizes **146.505 MHz** (back-up utilize **147.510 MHz**).

## 6-METER DRILL SSB INFORMATION

### Check-In

6-meter SSB drill "**check-in**" utilizes the 146.865 MHz KC6ULT, and 146.925 MHz WA6TOW (- offsets, PLs 114.8 Hz) repeaters to coordinate this drill on 50-watts.

### Drill Transmission

6-meter drill includes "Registered Stations" on 50-watts USB.

The 6-meter SSB propagation utilizes **50.200 MHz, USB/FM** (back-up utilize **50.250 MHz, USB/FM**).

## DRILL SEQUENCE

For both Drills, the sequence is:

1. Check-in on the assigned "check-in" frequencies when net control calls your tactical callsign.
  - Net Control contacts each Registered Field Station in the 30 listed cities/areas in San Mateo County alphabetically by city/area as shown on the issue Station Roll Call Log on the "**check-in frequencies**".
2. Switch to "transmission frequency" when instructed by net control and check-in on the Transmission (Simplex) frequency and read provided script provided.
  - **[2-meter]** Each station transmits a short message on **146.505 MHz** (Net control will instruct you to utilize the back-up of **147.510 MHz** if the primary is unavailable). Net Control **DOES NOT** transmit a reply.
  - **[6-meter SSB]** Each station transmits a short message on **50.200 MHz USB/FM** (Net control will instruct you to utilize the back-up of **50.250 MHz USB/FM** if primary is unavailable). Net Control **DOES NOT** transmit a reply.

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## AFTER THE DRILL IS COMPLETED

1. After script is complete switch back to the "check-in" frequency (**146.865 MHz** KC6ULT, and **146.925 MHz** WA6TOW (**minus offsets, PLs 114.8 Hz**) and let net control know you have completed your drill.
2. After drills are complete, please e-mail completed Roll Call Log results to:  
**"certsimplex@gmail.com"**.
3. You will receive the results by email about a month after the drill.

## SIMPLEX FREQUENCY SIGNAL QUALITY SCORING

Use the following scoring method using the Station Roll Call Log to record Signal Quality for each listed station. Use "Circuit Merit" signal response classification system (approximate: 5-4 = good, 3-2 = okay, 1-0 = not heard):

- Circuit Merit 5 = readable signal, audio loud
- Circuit Merit 4 = readable signal, audio medium to low
- Circuit Merit 3 = scratchy signal, audio loud
- Circuit Merit 2 = scratchy signal, audio medium to low
- Circuit Merit 1 = squelch broken, no audio
- Circuit Merit 0 = nothing heard from the simplex station
- N/C = Listed station did not call into Net

Basically "0 = nothing heard" through "5 = strong signal and audio".

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## DRILL SCRIPT FOR 2-METER AND 6-METER SSB DRILLS

*Field Station – Participant*

*NC – Net Control*

Note to Net Control: **Every 10 minutes when you give your call-sign transmit - Emergency or Priority traffic may break in at any time.**

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### On “Check-In Frequency” (Repeater) (146.865 MHz KC6ULT, and 146.925 MHz WA6TOW (- offsets, PLs 114.8 Hz)

*Instructions: Net Control will call your tactical/callsign. When called please use the following script:*

- NC:** [Field Station Tactical, FCC call], Net Control
- Field Station:** Net control this is [Field Station Tactical, FCC call]
- NC:** [Field Station Tactical], Are you ready to transmit on simplex?
- Field Station:** Yes, I am ready to transmit on simplex
- NC:** [Field Station Tactical], you may begin your simplex transmission.
- Field Station:** Acknowledged, starting simplex transmission.

*Instructions: Switch to Transmission Frequency.*

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### Field Station Script for Transmission Frequency (Simplex Frequency) (2 Meter Drill: 146.505 MHz (back-up utilize 147.510 MHz) (6-Meter SSB Drill: 50.200 MHz, USB/FM (back-up utilize 50.250 MHz, USB/FM).

**Field Station:** This is [Field Station Tactical, FCC call]. My location is [physical location].

Wait ten (10) seconds and then repeat the above “**Field Station**” transmission.

*Instructions: Switch back to Check-In Frequency.*

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### On “Check-In Frequency” (Repeater) (146.865 MHz KC6ULT, and 146.925 MHz WA6TOW (minus offsets, PLs 114.8 Hz)

- Field Station:** Net control this is [Field Station Tactical, FCC call]. I have completed my simplex transmission.
- NC:** [Field Station Tactical], this is Net control. I acknowledge that [Field Station Tactical, FCC Call], has completed their simplex transmission.

*Instructions: Your done. Please continue signal strength for all stations until drill is complete and turn in your Station Roll Call Log by email to: [certsimplex@gmail.com](mailto:certsimplex@gmail.com) . Thank you for participating!*