

Propose EmComm Operating Modes / Capabilities

The RTC-TH EmComm operating modes are presented below based on a single HAM (unless others can help). Modes to the right contain all components of the previous smaller mode unless otherwise stated. Note: TBP = To be purchased. Items in parentheses indicate items of limited quantity to be assigned as needed, or items to be made or acquired.

| of items to be made of acquired. | | | | | | | | |
|----------------------------------|----------------------------|-------------------------|----------------------|---------------------|---------------------------|---------------------|--|--|
| Last updated: 22 Apr 2011 | | Backpack→ | Bicycle→ | Sparky | Sam | Wang Wa base | | |
| | Operators | 1 | 1 | 1-2 | 1-2 | 1-2+ | | |
| Est Max Operating range | | 3-5 km | 6-12 km | 20-4 |)-40 km (80 km 1-way max) | | | |
| | Est Operating Duration | 1 day | 1-2 days | 1-2 days | 1- 2 weeks | 1-2 mos+ | | |
| Radio | FSR | TBP | TBP | TBP | TBP | TBP | | |
| | Yaesu FH-912 | X (if available) | X (if available) | Х | X (if available) | Х | | |
| | 100M 0000 T | , | , | X (if available) | X (if available) | X (EchoLink) | | |
| | ICOM 2200-T | | | | parky = VHF, Sam c | | | |
| | ICOM 718 | | | X (if available) | X (if available) | Х | | |
| Power supply | AA packs | Х | Х | X | X (if available) | Х | | |
| | NiMH | Х | Х | Х | X (if available) | Х | | |
| | 1 gel pack | | X (if available) | X (if available) | X (if available) | X (kept here) | | |
| | 6 VDC deep cycle wet | | | X (2) | X (2) | () | | |
| | 12 VDC AGM | | | X | 7 (=) | Х | | |
| | Small Solar PV panel | | Х | | e plans for back up o | | | |
| | Roof mounted solar PV | | Α | | ans for solar PV pan | | | |
| | Jatropha SVO generator | | | | | TBP | | |
| | Optional 220 VAC hook up | Kit: Extens | on cord, surge prote | ctor hatten/ charge | r: NO DIDECT conn | | | |
| | FH-912 whip and tiger tail | X | X | X | X (if available) | X (if available) | | |
| | Button magnet mount | | X | X | A (II available) | A (II available) | | |
| | | | ^ | ^ | V | | | |
| | NMO magnet mount | | | V | X | | | |
| | 102" whip | | | X | | V/The Cline line | | |
| | Slim Jim / J-pole | 00 | 00 | V | X (Arrow J-pole) | X(Thai SlimJim) | | |
| | 450 Window SlimJim/J-pole | (X) | (X) | X | | v | | |
| Antennas | Hentenna | W /'r '' '' '' ' | W ('f '1 1 1 | W ('C 'I I I) | W /'f '1 1 1 1 | X | | |
| le le | 4-Yagi VHF | X (if available) | X (if available) | X (if available) | X (if available) | X | | |
| Ā | Slingshot | | | X (small) | X (big) | | | |
| | 1-wire HF | | | X | X | | | |
| | HF multi mobile | | | Х | (X) | | | |
| | Super Antenna MP-1 | | | | X | X | | |
| | Spectral Isopole 144 | | | | | Х | | |
| | Diamond CP-6 | | | | | X | | |
| | SkyLoop | | | | | (X) | | |
| | Clinometers | 1 axis | 1 axis | 2 axis | 2 axis | | | |
| | GPS | Х | X | Х | Χ | | | |
| | Weather station | X (if available) | X (if available) | Kestrel 4500 | Kestrel 3000 | Davis | | |
| | Wind Indicator | X (if available) | X (if available) | Streamer | Streamer | Davis | | |
| | Ground Panels | X (if available) | X (if available) | Χ | X | | | |
| | White strobe | X (if available) | X (if available) | Х | Х | | | |
| | Camera | X (if available) | X (if available) | Х | Х | | | |
| | Binoculars | compact | compact | regular | regular | | | |
| | Basic LZ Survey Kit | X | X | X | X | Х | | |
| | Inflatable raft | | | | Х | Х | | |
| _ | Fire extinguisher | | | TBP | TBP | TBP | | |
| Other | First Aid kit | Х | Х | Х | X | Х | | |
| 0 | Excavating tools | | | Х | Х | | | |
| | Extension ladders | | | | X | Х | | |
| | Portable toilet | | | | X | | | |
| | Solar shower | 1 | | | X | | | |
| | Solar cooker | portable | portable | portable | (box) | (box) | | |
| | Solar still | Portubio | Politionic | portubio | (NOA) | (X) | | |
| | Sleeping bags | (X) | (X) | | 1 bunk | 1 bunk | | |
| | Tent | (X) | (X) | | (sleep in Sam) | (sleep in station) | | |
| | Mosquito net | (^) | Built into tent | | X | (SICCP III Station) | | |
| | Local area maps | Х | X | Х | X | X | | |
| | | X | X | X | X | ^ | | |
| <u> </u> | Basic survey kit | ^ | _ ^ | ٨ | ٨ | I | | |

| Helicopter Landing Zone Survey Kit | | | | | | | | |
|------------------------------------|---|--|--|--|--|--|--|--|
| | | | | | | | | |
| | Site criteria guidelines Access (primary and secondary) | | | | | | | |
| | Access (primary and se | | Topo Map | | | | | |
| Landing Zone | | | Google Earth photo-map | | | | | |
| Scout Report | Documentation | | Latitude/Longitude | | | | | |
| | | | LZ Sketch map | | | | | |
| | | | LZ GROTOT Hup | | | | | |
| DATA NEEDE | D FOR REP | ORT | Survey Method | | | | | |
| 27117111222 | Latitude/Longitude | | ☐ GPS (specify geoid) | | | | | |
| | | | ☐ Topo Map grid coordinates | | | | | |
| | | | ☐ Google Earth grid coordinates | | | | | |
| | Altitude | | ☐ GPS elevation | | | | | |
| Location | | | ☐ Topo map contours | | | | | |
| Location | | | □ Local altimeter from bench mark | | | | | |
| | | | ☐ Topo Map | | | | | |
| | Мар | | · · · | | | | | |
| | | | Google Earth Photo | | | | | |
| | | | ☐ LZ sketch map Dimensions | | | | | |
| | Size | | | | | | | |
| | | | Sketch map with bounding land marks Stake and Pace method | | | | | |
| | Slope | | | | | | | |
| | Max slope | | Leveling stick method | | | | | |
| | ° or% slope | | □ Sight level | | | | | |
| Land Zone | | | Clinometer | | | | | |
| | Vertical obstructions | | Estimating height by sight ruler; esp. note overhead wires | | | | | |
| Sketch Map | · | | Sketch map; | | | | | |
| and Photos | Safety zone | | Sketch map | | | | | |
| | Wind indicator | | Sketch map | | | | | |
| | Landing approach / | | Sketch map | | | | | |
| | Departure path | | Magnetic compass (Do Not correct for True North) | | | | | |
| | Access routes | | Primary; label on map; take photos | | | | | |
| | | | Secondary; label on map; take photos | | | | | |
| | Existing facilities | | Show on sketch map; take photos. | | | | | |
| | Materials | | Graph paper | | | | | |
| | Equipment | | Ruler, protractor, magnetic compass, long tape measure, calculator | | | | | |
| 01 (1 1 1 1 1 | Measuring Azimuth | | Magnetic compass | | | | | |
| Sketch Mapping | Distance m | easuring | □ Long Tape | | | | | |
| | | | ☐ Distance by pacing | | | | | |
| | Estimating height | | ☐ Sight ruler method | | | | | |
| | | | ☐ Clinometer method | | | | | |
| Equipment / Materials Needed | | | | | | | | |
| GPS | | GPS unit (w/ spare batteries); optional 12 VDC power cord, ext. antenna. | | | | | | |
| Magnetic compass | | Separate mounted units in Sparky & Sam; pocket compass. | | | | | | |
| Drafting kit | | Pencil, sharpener, eraser, protractor, ruler/scale, graph paper, pocket calculator | | | | | | |
| Long measuri | ng tape | 10 m and 33 m tapes | | | | | | |
| Leveling Surv | vey Kit | Sighting poles, string/level, rubber mallet, notepad, clinometer, sight level | | | | | | |
| Topo Ma | ар | If available or make rough sketch map if needed. | | | | | | |
| Google Earth | | Plot map for each alternate operating site and LZ. | | | | | | |
| Graph paper pa | | | | | | | | |
| pencil / era | | Make LZ map with approach paths | | | | | | |
| Landing Zone G | | Check list | | | | | | |
| Ground to Air | | Panel set, stakes, cord, rubber mallet. | | | | | | |
| Ground to Air Ha | | Reference card; LED markers; reflector paddles. | | | | | | |
| | | 1 | ranoronoo oara, EED manana, ronootoi padaloo. | | | | | |