**GENERAL**

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| **GENERAL** | | | |
| .alt | .alt # | .alt KLAL | **KLAL** altimeter [altimeter]. |
| .oops | .oops | .oops | DISREGARD LAST TRANSMISSION. Stand by for correction... |
| .wind | .wind | .wind | wind [winds]. |
| .ws | .ws # | .ws KLAL | **KLAL** wind [winds]. |
| .shear | .shear | .shear | wind shear advisories are in effect. |
| .micro | .micro | .micro | microburst advisories are in effect. |
| .con | .con # | .con 1V | contact **Miami Approach**, **124.850** |
| .wake | .wake | .wake | caution wake turbulence. |
| .si | .si | .si | say indicated. |
| .sm | .sm | .sm | say mach number. |
| .ron | .ron | .ron | resume own navigation. |
| .cv | .cv | .cv | do you copy voice? |
| .brb | .brb # | .brb 3 | ATTENTION ALL AIRCRAFT: [callsign] will be away for approximately 3 minute(s). |
| .back | .back | .back | [callsign] has returned. |
| .prc | .prc | .prc | For explanations/questions/tips, please visit the VATSIM pilot resource center at www.vatsim.net/prc/. |
| .txt | .txt | .txt | ATTENTION TEXT PILOTS: Please ALWAYS EXECUTE instructions first, then reply if able. Thank you! |
| .newatis | .newatis # # | .newatis TANGO KLAL | ATTENTION ALL AIRCRAFT: ATIS Information **TANGO** is now current at **KLAL**. Wind [winds], **KLAL** altimeter [altimeter]. |
| .curatis | .curatis # # | .curatis TANGO KLAL | ATIS Information **TANGO** is current at **KLAL**. Advise when you have **TANGO**, **KLAL** altimeter [altimeter]. |
| .closing | .closing # | .closing 5 | \*\*\*\*NOTAM: [controller] will be closing in approximately **5** minutes\*\*\*\*\* |
| .closed | .closed # | .closed 1V | \*\*\*\*NOTAM: **Miami Approach** CLOSED at [time]. Monitor unicom 122.8\*\*\*\* |
| .sg | .sg | .sg | when able, say gate number. |
| .sp | .sp | .sp | when able, say parking. |

**CLEARANCE DELIVERY**

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| **GENERAL CLEARANCE DELIVERY** | | | |
| .cor | .cor | .cor | clearance on request, stand by. |
| .corn | .corn # | .corn 1 | clearance on request, stand by, number **1**. |
| .iafdofw | .iafdofw | .iafdofw | filed altitude of [cruise] invalid for direction of flight. Please choose any EVEN altitude, and either advise this frequency of your choice, or re-file your flight plan. |
| .iafdofe | .iafdofe | .iafdofe | filed altitude of [cruise] invalid for direction of flight. Please choose any ODD altitude, and either advise this frequency of your choice, or re-file your flight plan. |
| .craft | .craft # # | .craft 5000 1V | cleared to [destination] airport as filed. Climb and maintain **5000**, expect [cruise] one-zero minutes after departure, departure frequency **124.850**, squawk [squawk]. |
| .craftu | .craftu # | .craftu 5000 | cleared to [destination] airport as filed. Climb and maintain **5000**, expect [cruise] one-zero minutes after departure. Departure control services are not available, squawk [squawk]. |
| .crafts | .crafts # # # | .crafts HEDLY2 5000 1V | cleared to [destination] airport, **HEDLY2** departure, then as filed. Climb and maintain **5000**, expect [cruise] one-zero minutes after departure, departure frequency **124.850**, squawk [squawk]. |
| .craftsu | .craftsu # # | .craftsu HEDLY2 5000 | cleared to [destination] airport, **HEDLY2** departure, then as filed. Climb and maintain **5000**, expect [cruise] one-zero minutes after departure. Departure control services are not available, squawk [squawk]. |
| .craftscvs | .craftscvs # # | .craftscvs HEDLY2 1V | cleared to [destination] airport, **HEDLY2** departure, then as filed. Climb via SID, departure frequency **124.850**, squawk [squawk]. |
| .craftscvse | .craftscvse # # # | .craftscvse HEDLY2 5000 1V | cleared to [destination] airport, **HEDLY2** departure, then as filed. Climb via SID, except maintain **5000**. Expect [cruise] one-zero minutes after departure, departure frequency **124.850**, squawk [squawk]. |
| .craftst | .craftst # # # # | .craftst HITAG2 HEDLY 5000 1V | cleared to [destination] airport, **HITAG2** departure, **HEDLY** transition, then as filed. Climb and maintain **5000**, expect [cruise] one-zero minutes after departure, departure frequency **124.850**, squawk [squawk]. |
| .craftstu | .craftstu # # # | .craftstu HITAG2 HEDLY 5000 | cleared to [destination] airport, **HITAG2** departure, **HEDLY** transition, then as filed. Climb and maintain **5000**, expect [cruise] one-zero minutes after departure. Departure control services are not available, squawk [squawk]. |
| .craftstcvs | .craftstcvs # # # | .craftstcvs HITAG2 HEDLY 1V | cleared to [destination] airport, **HITAG2** departure, **HEDLY** transition, then as filed. Climb via SID. Departure frequency **124.850**, squawk [squawk]. |
| .craftstcvse | .craftstcvse # # # # | .craftstcvse HITAG2 HEDLY 5000 1V | cleared to [destination] airport, **HITAG2** departure, **HEDLY** transition, then as filed. Climb via SID except maintain **5000**. Expect [cruise] one-zero minutes after departure, departure frequency **124.850**, squawk [squawk]. |
| .craftv | .craftv # # # | .craftv HEDLY 5000 1V | cleared to [destination] airport via radar vectors **HEDLY**, then as filed. Climb and maintain **5000**, expect [cruise] one-zero minutes after departure, departure frequency **124.850**, squawk [squawk]. |
| .craftvu | .craftvu # # | .craftvu HEDLY 5000 | cleared to [destination] airport via direct **HEDLY**, then as filed. Climb and maintain **5000**, expect [cruise] one-zero minutes after departure. Departure control services are not available, squawk [squawk]. |
| .depfreq | .depfreq # | .depfreq 1V | new departure frequency: **Miami Approach** on **124.850**. |
| .depna | .depna | .depna | departure services are no longer available. After departure, monitor unicom 122.8. |
| .rbc | .rbc | .rbc | readback correct. Push and start at pilot's discretion. Advise when ready to taxi. |
| .rbce | .rbce # | .rbce 8R | readback correct. Push and start at pilot's discretion. Expect Runway **8R**. Advise when ready to taxi. |
| .rbcc | .rbcc # | .rbcc G1 | readback correct. Push and start at pilot's discretion. Contact **Miami Ground** on **121.800** when ready to taxi. |
| .rbcu | .rbcu | .rbcu | readback correct. Push and start at pilot's discretion. Advise UNICOM on 122.800 when ready to taxi. |
| .rbchp | .rbchp | .rbchp | readback correct. HOLD PUSH for traffic. Advise when ready to push. |
| .rbchpe | .rbchpe # | .rbchpe 8R | readback correct. HOLD PUSH for traffic. Advise when ready to push. Expect Runway **8R**. |
| .rbchpc | .rbchpc # | .rbchpc G1 | readback correct. HOLD PUSH, and advise **Miami Ground** on **121.800** when ready to push. |

**GROUND**

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| **GENERAL TAXI** | | | | | **Separate sequential taxiways with hyphens. Example: .tv Y1-Y-M** | |
| .tlo | .tlo # | .tlo Y | turn LEFT on **Y**. | | |
| .tlosp | .tlosp # | .tlo Y | turn LEFT on **Y**, say parking. | | |
| .tlocon | .tlocon # # | .tlo Y 1S | turn LEFT on **Y**, contact **APT\_GND**, **121.800** when off. | | |
| .tlotp | .tlotp # # | .tlotp Y A-B-B7 | turn LEFT on **Y**, taxi to parking via **A-B-B7**. | | |
| .tlotphs | .tlotphs # # # | .tlotp Y A-B-B7 T | turn LEFT on **Y**, taxi to parking via **A-B-B7**, hold short of **T**. | | |
| .tlotpcr | .tlotpcr # # # | .tlotpcr Y A-B-B7 1R | turn LEFT on **Y**, taxi to parking via **A-B-B7**, cross runway **1R**. | | |
| .tro | .tro # | .tro Y | turn RIGHT on **Y**. | | |
| .trosp | .trosp # | .tro Y | turn RIGHT on **Y**, say parking. | | |
| .trocon | .trocon # # | .tro Y G1 | turn RIGHT on **Y**, contact **Miami Ground**, **121.800** when off. | | |
| .trotp | .trotp # # | .trotp Y A-B-B7 | turn RIGHT on **Y**, taxi to parking via **A-B-B7**. | | |
| .trotphs | .trotphs # # # | .trotp Y A-B-B7 T | turn RIGHT on **Y**, taxi to parking via **A-B-B7**, hold short of **T**. | | |
| .trotpcr | .trotpcr # # # | .trotpcr Y A-B-B7 1R | turn RIGHT on **Y**, taxi to parking via **A-B-B7**, cross runway **1R**. | | |
| .tv | .tv # | .tv A-B-B7 | taxi via **A-B-B7**. | | |
| .tvhs | .tvhs # # | .tvhs A-B-B7 P | taxi via **A-B-B7**, hold short of **P**. | | |
| .tf | .tf # # # | .tf AMERICAN A320 RIGHT | follow the **AMERICAN A320** from the **RIGHT** | | |
| .tfhs | .tfhs # # # # | .tfhs AMERICAN A320 RIGHT P | follow the **AMERICAN A320** from the **RIGHT**, hold short of **P** | | |
| .tsa | .tsa | .tsa | taxi straight ahead | | |
| .tsahs | .tsahs # | .tsahs P | Taxi straight ahead, hold short of **P** | | |
| **DEPARTURE TAXI** | | | | **Separate sequential taxiways with hyphens. Example: .trhs 8R Y2-JJ-M N** | |
| .tr | .tr # # | .tr 8R A-B-B7 | Runway **8R**, taxi via **A-B-B7**. | | |
| .trhs | .trhs # # # | .trhs 8R A-B-B7 JJ | Runway **8R**, taxi via **A-B-B7**, hold short of **JJ**. | | |
| .trcr | .trcr # # # | .trcr 1R A-B-B7 28 | Runway **1R**, taxi via **A-B-B7**, cross Runway **28**. | | |
| .trf | .trf # # # # | .trf 8R AMERICAN A320 LEFT | Runway **8R**, follow the **AMERICAN** **A320** from the **LEFT**. | | |
| .trfhs | .trfhs # # # # # | .trfhs 8R AMERICAN A320 LEFT JJ | Runway **8R**, follow the **AMERICAN** **A320** from the **LEFT**. Hold short of **JJ**. | | |
| .trfcr | .trfcr # # # # # | .trfcr 1R AMERICAN A320 LEFT 28 | Runway **1R**, follow the **AMERICAN** **A320** from the **LEFT**. Cross Runway **28**. | | |
| **ARRIVAL TAXI** | | | | **Separate sequential taxiways with hyphens. Example: .tp M-Y** | |
| .tp | .tp # | .tp A-B-B7 | taxi to parking via **A-B-B7**. | | |
| .tphs | .tphs # # | .tphs A-B-B7 JJ | taxi to parking via **A-B-B7**, hold short of **JJ**. | | |
| .tpcr | .tpcr # # | .tpcr A-B-B7 28 | taxi to parking via **A-B-B7**, cross Runway **28**. | | |
| .er | .er | .er | exit RIGHT when able, remain this frequency. | | |
| .ersg | .ersg | .ersg | exit RIGHT when able, then say gate number. | | |
| .ersp | .ersp | .ersp | exit RIGHT when able, then say parking. | | |
| .ercon | .ercon # | .ercon G1 | exit RIGHT when able, then contact **Miami Ground**, **121.800** when off. | | |
| .ertp | .ertp # | .ertp A-B-B7 | exit RIGHT when able, then taxi to parking via **A-B-B7**. | | |
| .ertphs | .ertphs # # | .ertphs A-B-B7 N8 | exit RIGHT when able, then taxi to parking via **A-B-B7**, hold short of **N8**. | | |
| .ertpcr | .ertpcr # # | .ertpcr A-B-B7 28 | exit RIGHT when able, then taxi to parking via **A-B-B7**, cross Runway **28**. | | |
| .ertro | .ertro # | .ertro M | exit RIGHT when able, then turn RIGHT on **M**, remain this frequency. | | |
| .ertrosg | .ertrosg # | .ertrosg M | exit RIGHT when able, then turn RIGHT on **M**, remain this frequency. When able, say gate number. | | |
| .ertrosp | .ertrosp # | .ertrosp M | exit RIGHT when able, then turn RIGHT on **M**, remain this frequency. When able, say parking. | | |
| .ertrohs | .ertrohs # # | .ertrohs M N | exit RIGHT when able, then turn RIGHT on **M**, hold short of **N**, remain this frequency. | | |
| .ertrohssg | .ertrohssg # # | .ertrohssg M N | exit RIGHT when able, then turn RIGHT on **M**, hold short of **N**, remain this frequency. When able, say gate number. | | |
| .ertrohssp | .ertrohssp # # | .ertrohssp M N | exit RIGHT when able, then turn RIGHT on **M**, hold short of **N**, remain this frequency. When able, say parking. | | |
| .ertlo | .ertlo # | .ertlo M | exit RIGHT when able, then turn LEFT on **M**, remain this frequency. | | |
| .ertlosg | .ertlosg # | .ertlosg M | exit RIGHT when able, then turn LEFT on **M**, remain this frequency. When able, say gate number. | | |
| .ertlosp | .ertlosp # | .ertlosp M | exit RIGHT when able, then turn LEFT on **M**, remain this frequency. When able, say parking. | | |
| .ertlohs | .ertlohs # # | .ertlohs M N | exit RIGHT when able, then turn LEFT on **M**, hold short of **N**, remain this frequency. | | |
| .ertlohssg | .ertlohssg # # | .ertlohssg M N | exit RIGHT when able, then turn LEFT on **M**, hold short of **N**, remain this frequency. When able, say gate number. | | |
| .ertlohssp | .ertlohssp # # | .ertlohssp M N | exit RIGHT when able, then turn LEFT on **M**, hold short of **N**, remain this frequency. When able, say parking. | | |
| .el | .el | .el | exit LEFT when able, remain this frequency. | | |
| .elsg | .elsg | .elsg | exit LEFT when able, then say gate number. | | |
| .elsp | .elsp | .elsp | exit LEFT when able, then say parking. | | |
| .elcon | .elcon # | .elcon G1 | exit LEFT when able, then contact **Miami Ground**, **121.800** when off. | | |
| .eltp | .eltp # | .eltp A-B-B7 | exit LEFT when able, then taxi to parking via **A-B-B7**. | | |
| .eltphs | .eltphs # # | .eltphs A-B-B7 N8 | exit LEFT when able, then taxi to parking via **A-B-B7**, hold short of **N8**. | | |
| .eltpcr | .eltpcr # # | .eltpcr A-B-B7 28 | exit LEFT when able, then taxi to parking via **A-B-B7**, cross Runway **28**. | | |
| .eltro | .eltro # | .eltro M | exit LEFT when able, then turn RIGHT on **M**, remain this frequency. | | |
| .eltrosg | .eltrosg # | .eltrosg M | exit LEFT when able, then turn RIGHT on **M**, remain this frequency. When able, say gate number. | | |
| .eltrosp | .eltrosp # | .eltrosp M | exit LEFT when able, then turn RIGHT on **M**, remain this frequency. When able, say parking. | | |
| .eltrohs | .eltrohs # # | .eltrohs M N | exit LEFT when able, then turn RIGHT on **M**, hold short of **N**, remain this frequency. | | |
| .eltrohssg | .eltrohssg # # | .eltrohssg M N | exit LEFT when able, then turn RIGHT on **M**, hold short of **N**, remain this frequency. When able, say gate number. | | |
| .eltrohssp | .eltrohssp # # | .eltrohssp M N | exit LEFT when able, then turn RIGHT on **M**, hold short of **N**, remain this frequency. When able, say parking. | | |
| .eltlo | .eltlo # | .eltlo M | exit LEFT when able, then turn LEFT on **M**, remain this frequency. | | |
| .eltlosg | .eltlosg # | .eltlosg M | exit LEFT when able, then turn LEFT on **M**, remain this frequency. When able, say gate number. | | |
| .eltlosp | .eltlosp # | .eltlosp M | exit LEFT when able, then turn LEFT on **M**, remain this frequency. When able, say parking. | | |
| .eltlohs | .eltlohs # # | .eltlohs M N | exit LEFT when able, then turn LEFT on **M**, hold short of **N**, remain this frequency. | | |
| .eltlohssg | .eltlohssg # # | .eltlohssg M N | exit LEFT when able, then turn LEFT on **M**, hold short of **N**, remain this frequency. When able, say gate number. | | |
| .eltlohssp | .eltlohssp # # | .eltlohssp M N | exit LEFT when able, then turn LEFT on **M**, hold short of **N**, remain this frequency. When able, say parking. | | |
| **CROSSING & HOLDING** | | | | **Separate sequential taxiways with hyphens. Example: .crtv 8R A-B-B7** | |
| .stop | .stop | .stop | hold position. | | |
| .hs | .hs # | .hs Y | hold short of **Y**. | | |
| .hsnt | .hsnt | .hsnt | hold short of next taxiway. | | |
| .cr | .cr # | .cr 28 | cross Runway **28**. | | |
| .crhs | .crhs # # | .crhs 28 Y | cross Runway **28**, hold short of **Y**. | | |
| .crtv | .crtv # # | .crtv 8R A-B-B7 | cross Runway **8R**, taxi via **A-B-B7**. | | |
| .crtvhs | .crtvhs # # # | .crtvhs 8R A-B-B7 Z | cross Runway **8R**, taxi via **A-B-B7**, hold short of **Z**. | | |
| .crtf | .crtf # # # # | .crtf 8R AMERICAN A320 RIGHT | cross Runway **8R**, follow the **AMERICAN** **A320** from the **RIGHT**. | | |
| .crtfhs | .crtfhs # # # # # | .crtfhs 8R AMERICAN A320 RIGHT JJ | cross Runway **8R**, follow the **AMERICAN** **A320** from the **RIGHT**, hold short of **JJ**. | | |
| .crtp | .crtp # # | .crtp 28 A-B-B7 | cross Runway **28**, taxi to parking via **A-B-B7**. | | |
| .ct | .ct | .ct | continue taxi. | | |
| .ctp | .ctp | .ctp | taxi to parking. | | |
| .ctg | .ctg | .ctg | taxi to the gate. | | |
| .ctr | .ctr | .ctr | taxi to the ramp. | | |
| .cths | .cths # | .cths Y | continue taxi, hold short of **Y**. | | |
| .hpt | .hpt | .hpt | hold push for traffic. | | |
| .hpq | .hpq | .hpq | hold push, you are in the queue. | | |
| .hpqn | .hpqn # | .hpqn 2 | hold push, you are number **2** in the queue. | | |
| .push | .push # | .push NORTH | Push approved, face **NORTH**. Advise when ready to taxi. | | |
| .pusht | .pusht # | .pusht EAST | Push approved, tail **EAST**. Advise when ready to taxi. | | |
| .pushc | .pushc # # | .pushc EAST G1 | Push approved, face **EAST**. Contact **Miami Ground** on **121.800** when ready for taxi. | | |
| .pushtc | .pushtc # # | .pushtc EAST G1 | Push approved, tail **EAST**. Contact **Miami Ground** on **121.800** when ready for taxi. | | |
| .gmie | .gmie # | .gmie G1 | ATTENTION ALL AIRCRAFT: Ground metering is in effect. Contact **Miami Ground** on **121.800** when ready to push. | | |
| **PROGRESSIVE TAXI** | | | | | |
| .tlnt | .tlnt | .tlnt | turn left next taxiway. | | |
| .tlnths | .tlnths # | .tlnths Y | turn left next taxiway, hold short of **Y**. | | |
| .tlntcr | .tlntcr # | .tlntcr 28 | turn left next taxiway, cross Runway **28**. | | |
| .trnt | .trnt | .trnt | turn right next taxiway. | | |
| .trnths | .trnths # | .trnths Y | turn right next taxiway, hold short of **Y**. | | |
| .trntcr | .trntcr # | .trntcr 28 | turn right next taxiway, cross Runway **28**. | | |

**TOWER**

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| **ARRIVALS** | | | |
| .cl | .cl # | .cl 8R | wind [winds], Runway **8R**, cleared to land. |
| .cln | .cln # # | .cln 8R 2 | wind [winds], Runway **8R**, cleared to land, number **2**. |
| .clnf | .clnf # # # # | .clnf 8R 2 C172 1 | wind [winds], Runway **8R**, cleared to land, number **2**, following a **C172** on a **1** mile final. |
| .clwta | .clwta # # | .clwta 8R B747 | wind [winds], Runway **8R**, cleared to land. Caution wake turbulence arrived **B747**. |
| .clwtd | .clwtd # # | .clwtd 8R B747 | wind [winds], Runway **8R**, cleared to land. Caution wake turbulence departed **B747**. |
| .clwtad | .clwtad # # # | .clwtad 8R B747 A332 | wind [winds], Runway **8R**, cleared to land. Caution wake turbulence arrived **B747**, departed **A332**. |
| .cltd | .cltd # | .cltd 8R | wind [winds], Runway **8R**, cleared to land, traffic departing. |
| .cltdp | .cltdp # # | .cltdp 8R 8L | wind [winds], Runway **8R**, cleared to land, traffic departing the parallel Runway **8L**. |
| .cltdi | .cltdi # # | .cltdi 1R 28 | wind [winds], Runway **1R**, cleared to land, traffic departing the intersecting Runway **28**. |
| .clta | .clta # # # | .clta 8R 3 12 | wind [winds], Runway **8R**, cleared to land, traffic **3** mile final for Runway **12**. |
| .cltap | .cltap # # # | .cltap 8R 3 8L | wind [winds], Runway **8R**, cleared to land, traffic **3** mile final for the parallel Runway **8L**. |
| .cltai | .cltai # # # | .cltai 1R 3 28 | wind [winds], Runway **1R**, cleared to land, traffic **3** mile final for intersecting Runway **28**. |
| .clthp | .clthp # | .clthp 8R | wind [winds], Runway **8R**, cleared to land, traffic holding in position. |
| .ctu | .ctu # | .ctu 8R | Runway **8R**, continue. |
| .ctutd | .ctutd # | .ctutd 8R | Runway **8R**, continue, traffic departing prior to your arrival. |
| .ctumd | .ctumd # # | .ctumd 8R 2 | Runway **8R**, continue, **2** departures prior to your arrival. |
| .ctuthp | .ctuthp # | .ctuthp 8R | Runway **8R**, continue, traffic holding in position. |
| .ctutmp | .ctutmp # | .ctutmp 8R | Runway **8R**, continue, traffic moving into position. |
| .ga | .ga | .ga | GO AROUND. |
| .miss | .miss | .miss | fly the missed approach as published. |
| .cg | .cg | .cg | contact ground. |
| .cgf | .cgf # | .cgf 121.8 | contact ground, **121.8**. |
| **DEPARTURES** | | | |
| .cto | .cto # | .cto 8R | wind [winds], Runway **8R**, cleared for takeoff. |
| .ctowtd | .ctowtd # # | .ctowtd 8R B747 | wind [winds], Runway **8R**, cleared for takeoff. Caution wake turbulence departed **B747**. |
| .ctor | .ctor # # | .ctor SENOY 8R | wind [winds], RNAV to **SENOY**, Runway **8R**, cleared for takeoff. |
| .ctorwtd | .ctorwtd # # # | .ctorwtd SENOY 8R B747 | wind [winds], RNAV to **SENOY**, Runway **8R**, cleared for takeoff. Caution wake turbulence departed **B747**. |
| .ctofh | .ctofh # # | .ctofh 280 28R | Fly heading **280**, wind [winds], Runway **28R**, cleared for takeoff. |
| .ctofhwtd | .ctofhwtd # # # | .ctofhwtd 280 28R B747 | Fly heading **280**, wind [winds], Runway **28R**, cleared for takeoff. Caution wake turbulence departed **B747**. |
| .ctotrh | .ctotrh # # | .ctotrh 160 8L | Turn right heading **160**, wind [winds], Runway **8L**, cleared for takeoff. |
| .ctotrhwtd | .ctotrhwtd # # # | .ctotrhwtd 160 8L B747 | Turn right heading **160**, wind [winds], Runway **8L**, cleared for takeoff. Caution wake turbulence departed **B747**. |
| .ctotlh | .ctotlh # # | .ctotlh 060 8L | Turn left heading **160**, wind [winds], Runway **8L**, cleared for takeoff. |
| .ctotlhwtd | .ctotlhwtd # # # | .ctotlhwtd 060 8L B747 | Turn left heading **160**, wind [winds], Runway **8L**, cleared for takeoff. Caution wake turbulence departed **B747**. |
| .luaw | .luaw # | .luaw 8R | Runway 8R, line up and wait. |
| .luawwt | .luawwt # | .luawwt 8R | Runway 8R, line up and wait for wake turbulence. |
| .luawtc | .luawtc # | .luawtc 8R | Runway 8R, line up and wait, traffic crossing downfield. |
| .luawtwc | .luawtwc # | .luawtwc 8R | Runway 8R, line up and wait, traffic will cross downfield. |
| .hstof | .hstof # | .hstof 1 | hold short, traffic **1** mile final. |
| .hstofi | .hstofi # # | .hstofi 1 12 | hold short, traffic **1** mile final for the intersecting Runway **12**. |
| .hswt | .hswt | .hswt | hold short for wake turbulence. |
| .rto | .rto | .rto | CANCEL TAKEOFF CLEARANCE. |
| .ctc | .ctc | .ctc | CANCEL TAKEOFF CLEARANCE. |
| .cd | .cd | .cd | contact departure. |

**VFR**

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| --- | --- | --- | --- |
| **DEPARTURES** | | | |
| .vfrd | .vfrd # # # | .vfrd NORTH 2500 1V | departure to the **NORTH** is approved. Maintain VFR at or below **2500**, departure frequency **124.850**. Squawk [squawk]. |
| .vfrdso | .vfrdso | .vfrdso | straight-out departure approved. |
| .vfrdlc | .vfrdlc | .vfrdlc | left crosswind departure approved. |
| .vfrdrc | .vfrdrc | .vfrdrc | right crosswind departure approved. |
| .vfrdld | .vfrdld | .vfrdld | left downwind departure approved. |
| .vfrdrd | .vfrdrd | .vfrdrd | right downwind departure approved. |
| .vfrdu | .vfrdu # # | .vfrdu NORTH 2500 | departure to the **NORTH** is approved. Maintain VFR at or below **2500**, departure on UNICOM 122.80. Squawk [squawk]. |
| **CLASS BRAVO CLEARANCES** | | | |
| .vfrcob | .vfrcob # # # # | .vfrcob KMIA NORTH 2500 1V | cleared out of **KMIA** Bravo airspace to the **NORTH**. Maintain VFR at or below **2500**. Departure frequency **124.850**. Squawk [squawk]. |
| .vfrcobu | .vfrcobu # # # | .vfrcobu KMIA NORTH 2500 | cleared out of **KMIA** Bravo airspace to the **NORTH**. Maintain VFR at or below **2500**. Departure on unicom, 122.8. Squawk [squawk]. |
| .vfrcib | .vfrcib # # | .vfrcib KTPA 2500 | cleared into **KTPA** Bravo airspace. Maintain VFR at or below **2500**. |
| .vfrcibh | .vfrcibh # # # | .vfrcibh KMIA 2500 270 | cleared into **KMIA** Bravo airspace. Maintain VFR at or below **2500**, enter controlled airspace heading **270**. |
| .vfrctb | .vfrctb # # | .vfrctb KTPA 2500 | cleared through **KTPA** Bravo airspace. Maintain VFR at or below **2500**. |
| .vfrctbh | .vfrctbh # # # | .vfrctbh KMIA 2500 270 | cleared through **KMIA** Bravo airspace. Maintain VFR at or below **2500**, enter controlled airspace heading **270**. |
| .vfrrcb | .vfrrcb # # | .vfrrcb KMIA 2 | REMAIN CLEAR of the **KMIA** Bravo airspace. Expect an update in **2** minutes. |
| **PATTERN WORK & ARRIVALS** | | | |
| .lcta | .lcta | .lcta | left closed traffic approved. |
| .rcta | .rcta | .rcta | right closed traffic approved. |
| .eld | .eld # | .eld 27 | enter left downwind Runway **27**. |
| .erd | .erd # | .erd 27 | enter right downwind Runway **27**. |
| .elb | .elb # | .elb 27 | enter left base Runway **27**. |
| .erb | .erb # | .erb 27 | enter right base Runway **27**. |
| .msi | .msi # | .msi 27 | make straight in Runway **27**. |
| .rmd | .rmd | .rmd | report midfield downwind. |
| .rpn | .rpn | .rpn | report passing the numbers. |
| .rtb | .rtb | .rtb | report turning base. |
| .rtf | .rtf | .rtf | report turning final. |
| .ed | .ed | .ed | extend downwind, I'll call your base. |
| .eu | .eu | .eu | extend upwind, I'll call your crosswind. |
| .tc | .tc | .tc | turn crosswind. |
| .tb | .tb | .tb | turn base. |
| .copt | .copt # | .copt 27 | Runway **27**, cleared for the option. |
| .ctg | .ctg # | .ctg 27 | Runway **27**, cleared touch and go. |
| .cla | .cla # | .cla 27 | Runway **27**, cleared low approach. |

**RADAR**

|  |  |  |  |
| --- | --- | --- | --- |
| **TRANSPONDER** | | | |
| .ss | .ss | .ss | squawk standby. |
| .sn | .sn | .sn | squawk normal. |
| .smc | .smc | .smc | squawk Mode C. |
| .id | .id | .id | squawk ident. |
| .sq | .sq | .sq | squawk [squawk]. |
| .sqid | .sqid | .sqid | squawk [squawk] and ident. |
| .csq | .csq | .csq | check transponder. Verify squawking [squawk]. |
| .hiid | .hiid | .hiid | [position], squawk ident. |
| .hisq | .hisq | .hisq | [position], squawk [squawk]. |
| .hisqid | .hisqid | .hisqid | [position], squawk [squawk] and ident. |
| .hiaid | .hiaid # | .hiaid KMIA | [position], **KMIA** altimeter [altimeter], squawk ident. |
| .hiasq | .hiasq # | .hiasq KMIA | [position], **KMIA** altimeter [altimeter], squawk [squawk]. |
| .hiasqid | .hiasqid # | .hiasqid KMIA | [position], **KMIA** altimeter [altimeter], squawk [squawk] and ident. |
| **RADAR IDENTIFICATION** | | | |
| .sa | .sa | .sa | say altitude. |
| .rc | .rc | .rc | radar contact. |
| .rcsa | .rcsa | .rcsa | radar contact, say altitude. |
| .rcsal | .rcsal | .rcsal | radar contact, say altitude leaving. |
| .rcpos | .rcpos # | .rcpos JURER | radar contact [distance] miles [bearing] of **JURER**. |
| .rcpossa | .rcpossa # | .rcpossa JURER | radar contact [distance] miles [bearing] of **JURER**, say altitude. |
| .rcpossal | .rcpossal # | .rcpossal JURER | radar contact [distance] miles [bearing] of **JURER**, say altitude leaving. |
| .hisa | .hisa | .hisa | [position], say altitude. |
| .hirc | .hirc | .hirc | [position], radar contact. |
| .hircsa | .hircsa | .hircsa | [position], radar contact, say altitude. |
| .hircsal | .hircsal | .hircsal | [position], radar contact, say altitude leaving. |
| .hircpos | .hircpos # | .hircpos JURER | [position], radar contact [distance] miles [bearing] of **JURER**. |
| .hircpossa | .hircpossa # | .hircpossa JURER | [position], radar contact [distance] miles [bearing] of **JURER**, say altitude. |
| .hircpossal | .hircpossal # | .hircpossal JURER | [position], radar contact [distance] miles [bearing] of **JURER**, say altitude leaving. |
| .hiasa | .hiasa # | .hiasa KMIA | [position], **KMIA** altimeter [altimeter], say altitude. |
| .hiarc | .hiarc # | .hiarc KMIA | [position], **KMIA** altimeter [altimeter], radar contact. |
| .hiarcsa | .hiarcsa # | .hiarcsa KMIA | [position], **KMIA** altimeter [altimeter], radar contact, say altitude. |
| .hiarcsal | .hiarcsal # | .hiarcsal KMIA | [position], **KMIA** altimeter [altimeter], radar contact, say altitude leaving. |
| .hiarcpos | .hiarcpos # # | .hiarcpos KMIA JURER | [position], **KMIA** altimeter [altimeter], radar contact [distance] miles [bearing] of **JURER**. |
| .hiarcpossa | .hiarcpossa # # | .hiarcpossa KMIA JURER | [position], **KMIA** altimeter [altimeter], radar contact [distance] miles [bearing] of **JURER**, say altitude. |
| .hiarcpossal | .hiarcpossal # # | .hiarcpossal KMIA JURER | [position], **KMIA** altimeter [altimeter], radar [distance] miles [bearing] of **JURER**, say altitude leaving. |
| **TRAFFIC ADVISORIES** | | | |
| .tfc | .tfc # # # # # | .tfc 11 4 SOUTH B747 FL290 | traffic **11** o'clock, **4** miles, **SOUTH**-bound, **B747**, **FL290**. |
| .tfcc | .tfcc # # # # # # | .tfcc 11 4 SOUTH C172 5000 7000 | traffic **11** o'clock, **4** miles, **SOUTH**-bound, **C172**, leaving **5000**, climbing to **7000**. |
| .tfcd | .tfcd # # # # # # | .tfcd 11 4 SOUTH C172 7000 5000 | traffic **11** o'clock, **4** miles, **SOUTH**-bound, **C172**, leaving **7000**, descending to **5000**. |
| .tfcod | .tfcod # # # # | .tfcod 11 4 B747 FL290 | traffic **11** o'clock, **4** miles, opposite direction, **B747**, **FL290**. |
| .tfcodc | .tfcodc # # # # # | .tfcodc 11 4 C172 5000 7000 | traffic **11** o'clock, **4** miles, opposite direction, **C172**, leaving **5000**, climbing to **7000**. |
| .tfcodd | .tfcodd # # # # # | .tfcodd 11 4 C172 7000 5000 | traffic **11** o'clock, **4** miles, opposite direction, **C172**, leaving **7000**, descending to **5000**. |
| .tfcsd | .tfcsd # # # # | .tfcsd 11 4 B747 FL290 | traffic **11** o'clock, **4** miles, same direction, **B747**, **FL290**. |
| .tfcsdc | .tfcsdc # # # # # | .tfcsdc 11 4 C172 5000 7000 | traffic **11** o'clock, **4** miles, same direction, **C172**, leaving **5000**, climbing to **7000**. |
| .tfcsdd | .tfcsdd # # # # # | .tfcsdd 11 4 C172 7000 5000 | traffic **11** o'clock, **4** miles, same direction, **C172**, leaving **7000**, descending to **5000**. |
| .tfclr | .tfclr # # # # | .tfclr 11 4 B747 FL290 | traffic **11** o'clock, **4** miles, left to right, **B747**, **FL290**. |
| .tfclrc | .tfclrc # # # # # | .tfclrc 11 4 C172 5000 7000 | traffic **11** o'clock, **4** miles, left to right, **C172**, leaving **5000**, climbing to **7000**. |
| .tfclrd | .tfclrd # # # # # | .tfclrd 11 4 C172 7000 5000 | traffic **11** o'clock, **4** miles, left to right, **C172**, leaving **7000**, descending to **5000**. |
| .tfcrl | .tfcrl # # # # | .tfcrl 11 4 B747 FL290 | traffic **11** o'clock, **4** miles, right to left, **B747**, **FL290**. |
| .tfcrlc | .tfcrlc # # # # # | .tfcrlc 11 4 C172 5000 7000 | traffic **11** o'clock, **4** miles, right to left, **C172**, leaving **5000**, climbing to **7000**. |
| .tfcrld | .tfcrld # # # # # | .tfcrld 11 4 C172 7000 5000 | traffic **11** o'clock, **4** miles, right to left, **C172**, leaving **7000**, descending to **5000**. |
| .vsep | .vsep | .vsep | maintain visual separation from that traffic. |
| **SATELLITE OPS** | | | |
| .hfr | .hfr | .hfr | hold for release. |
| .rfd | .rfd | .rfd | released for departure. |
| .rfdh | .rfdh # | .rfdh 080 | released for departure. Enter controlled airspace heading **080**. |
| .rfdha | .rfdha # # | .rfdha 080 5000 | released for departure. Enter controlled airspace heading **080**, maintain **5000**. |

|  |  |  |  |
| --- | --- | --- | --- |
| **HEADING & ALTITUDE CONTROL** | | | |
| .fph | .fph | .fph | fly present heading. |
| .fphv | .fphv # # | .fphv ILS 12 | fly present heading, vector **ILS** Runway **12** approach. |
| .fphvf | .fphvf # # | .fphvf RNAV 12 | fly present heading, vector to **RNAV** Runway **12** final approach course. |
| .fphcm | .fphcm # | .fphcm 12000 | fly present heading, climb and maintain **12000**. |
| .fphcmv | .fphcmv # # # | .fphcmv 12000 ILS 12 | climb and maintain **12000**, fly present heading, vector **ILS** Runway **12** approach. |
| .fphcmvf | .fphcmvf # # # | .fphcmvf 12000 RNAV 12 | climb and maintain **12000**, fly present heading, **vector** to **RNAV** Runway **12** final approach course. |
| .fphdm | .fphdm # | .fphdm 12000 | fly present heading, descend and maintain **12000**. |
| .fphdmv | .fphdmv # # # | .fphdmv 12000 ILS 12 | descend and maintain **12000**, fly present heading, vector **ILS** Runway **12** approach. |
| .fphdmvf | .fphdmvf # # # | .fphdmvf 12000 RNAV 12 | descend and maintain **12000**, fly present heading, vector to **RNAV** Runway **12** final approach course. |
| .fh | .fh # | .fh 270 | fly heading **270**. |
| .fhv | .fhv # # # | .fhv 270 ILS 12 | fly heading **270**, vector **ILS** Runway **12** approach. |
| .fhvf | .fhvf # # # | .fhvf 270 RNAV 12 | fly heading **270**, vector to **RNAV** Runway **12** final approach course. |
| .fhcm | .fhcm # # | .fhcm 270 12000 | fly heading **270**, climb and maintain **12000**. |
| .fhcmv | .fhcmv # # # # | .fhcmv 12000 270 ILS 12 | climb and maintain **12000**, fly heading **270**, vector **ILS** Runway **12** approach. |
| .fhcmvf | .fhcmvf # # # # | .fhcmvf 12000 270 RNAV 12 | climb and maintain **12000**, fly heading **270**, vector to **RNAV** Runway **12** final approach course. |
| .fhdm | .fhdm # # | .fhdm 270 12000 | fly heading **270**, descend and maintain **12000**. |
| .fhdmv | .fhdmv # # # # | .fhdmv 12000 270 ILS 12 | descend and maintain **12000**, fly heading **270**, vector **ILS** Runway **12** approach. |
| .fhdmvf | .fhdmvf # # # # | .fhdmvf 12000 270 RNAV 12 | descend and maintain **12000**, fly heading **270**, vector to **RNAV** Runway **12** final approach course. |
| .tlh | .tlh # | .tlh 270 | Turn left heading **270**. |
| .tlhv | .tlhv # # # | .tlhv 270 ILS 12 | turn left heading **270**, vector **ILS** Runway **12** approach. |
| .tlhvf | .tlhvf # # # | .tlhvf 270 RNAV 12 | turn left heading **270**, vector to **RNAV** Runway **12** final approach course. |
| .tlhcm | .tlhcm # # | .tlhcm 270 12000 | turn left heading **270**, climb and maintain **12000**. |
| .tlhcmv | .tlhcmv # # # # | .tlhcmv 12000 270 ILS 12 | climb and maintain **12000**, turn left heading **270**, vector **ILS** Runway **12** approach. |
| .tlhcmvf | .tlhcmvf # # # # | .tlhcmvf 12000 270 RNAV 12 | climb and maintain **12000**, turn left heading **270**, vector to **RNAV** Runway **12** final approach course. |
| .tlhdm | .tlhdm # # | .tlhdm 270 12000 | turn left heading **270**, descend and maintain **12000**. |
| .tlhdmv | .tlhdmv # # # # | .tlhdmv 12000 270 ILS 12 | descend and maintain **12000**, turn left heading **270**, vector **ILS** Runway **12** approach. |
| .tlhdmvf | .tlhdmvf # # # # | .tlhdmvf 12000 270 RNAV 12 | descend and maintain **12000**, turn left heading **270**, vector to **RNAV** Runway **12** final approach course. |
| .trh | .trh # | .trh 270 | Turn right heading **270**. |
| .trhv | .trhv # # # | .trhv 270 ILS 12 | turn right heading **270**, vector **ILS** Runway **12** approach. |
| .trhvf | .trhvf # # # | .trhvf 270 RNAV 12 | turn right heading **270**, vector to **RNAV** Runway **12** final approach course. |
| .trhcm | .trhcm # # | .trhcm 270 12000 | turn right heading **270**, climb and maintain **12000**. |
| .trhcmv | .trhcmv # # # # | .trhcmv 12000 270 ILS 12 | climb and maintain **12000**, turn right heading **270**, vector **ILS** Runway **12** approach. |
| .trhcmvf | .trhcmvf # # # # | .trhcmvf 12000 270 RNAV 12 | climb and maintain **12000**, turn right heading **270**, vector to **RNAV** Runway **12** final approach course. |
| .trhdm | .trhdm # # | .trhdm 270 12000 | turn right heading **270**, descend and maintain **12000**. |
| .trhdmv | .trhdmv # # # # | .trhdmv 12000 270 ILS 12 | descend and maintain **12000**, turn right heading **270**, vector **ILS** Runway **12** approach. |
| .trhdmvf | .trhdmvf # # # # | .trhdmvf 12000 270 RNAV 12 | descend and maintain **12000**, turn right heading **270**, vector to **RNAV** Runway **12** final approach course. |
| .pd | .pd # | .pd SABEE | proceed direct **SABEE**. |
| .fhpd | .fhpd # | .fhpd 270 SABEE | fly heading **270**. When able, proceed direct **SABEE**. |
| .pdcm | .pdcm # # | .pdcm SABEE 12000 | proceed direct **SABEE**, climb and maintain **12000**. |
| .pddm | .pddm # # | .pddm SABEE 12000 | proceed direct **SABEE**, descend and maintain **12000**. |
| .cm | .cm # | .cm 12000 | Climb and maintain **12000**. |
| .dm | .dm # | .dm 12000 | Descend and maintain **12000**. |
| .hi | .hi | .hi | [position]. |
| .hifh | .hifh # | .hifh 270 | [position], fly heading **270**. |
| .hifhv | .hifhv # # # | .hifhv 270 ILS 12 | [position], fly heading **270** vector **ILS** Runway **12** approach. |
| .hifhvf | .hifhvf # # # | .hifhvf 270 RNAV 12 | [position], fly heading **270**, vector to **RNAV** Runway **12** final approach course. |
| .hifhcm | .hifhcm # # | .hifhcm 270 12000 | [position], fly heading **270**, climb and maintain **12000**. |
| .hifhcmv | .hifhcmv # # # # | .hifhcmv 12000 270 ILS 12 | [position], climb and maintain **12000**, fly heading **270**, vector **ILS** Runway **12** approach. |
| .hifhcmvf | .hifhcmvf # # # # | .hifhcmvf 12000 270 RNAV 12 | [position], climb and maintain **12000**, fly heading **270**, vector to **RNAV** Runway **12** final approach course. |
| .hifhdm | .hifhdm # # | .hifhdm 270 12000 | [position], fly heading **270**, climb and maintain **12000**. |
| .hifhdmv | .hifhdmv # # # # | .hifhdmv 12000 270 ILS 12 | [position], climb and maintain **12000**, fly heading **270**, vector **ILS** Runway **12** approach. |
| .hifhdmvf | .hifhdmvf # # # # | .hifhdmvf 12000 270 RNAV 12 | [position], climb and maintain **12000**, fly heading **270**, vector to **RNAV** Runway **12** final approach course. |
| .hitlh | .hitlh # | .hitlh 270 | [position], turn left heading **270**. |
| .hitlhv | .hitlhv # # # | .hitlhv 270 ILS 12 | [position], turn left heading **270**, vector **ILS** Runway **12** approach. |
| .hitlhvf | .hitlhvf # # # | .hitlhvf 270 RNAV 12 | [position], turn left heading **270**, vector to **RNAV** Runway **12** final approach course. |
| .hitlhcm | .hitlhcm # # | .hitlhcm 270 12000 | [position], turn left heading **270**, climb and maintain **12000**. |
| .hitlhcmv | .hitlhcmv # # # # | .hitlhcmv 12000 270 ILS 12 | [position], climb and maintain **12000**, turn left heading **270**, vector **ILS** Runway **12** approach. |
| .hitlhcmvf | .hitlhcmvf # # # # | .hitlhcmvf 12000 270 RNAV 12 | [position], climb and maintain **12000**, turn left heading **270**, vector to **RNAV** Runway **12** final approach course. |
| .hitlhdm | .hitlhdm # # | .hitlhdm 270 12000 | [position], turn left heading **270**, climb and maintain **12000**. |
| .hitlhdmv | .hitlhdmv # # # # | .hitlhdmv 12000 270 ILS 12 | [position], climb and maintain **12000**, turn left heading **270**, vector **ILS** Runway **12** approach. |
| .hitlhdmvf | .hitlhdmvf # # # # | .hitlhdmvf 12000 270 RNAV 12 | [position], climb and maintain **12000**, turn left heading **270**, vector to **RNAV** Runway **12** final approach course. |
| .hitrh | .hitrh # | .hitrh 270 | [position], turn right heading **270**. |
| .hitrhv | .hitrhv # # # | .hitrhv 270 ILS 12 | [position], turn right heading **270**, vector **ILS** Runway **12** approach. |
| .hitrhvf | .hitrhvf # # # | .hitrhvf 270 RNAV 12 | [position], turn right heading **270**, vector to **RNAV** Runway **12** final approach course. |
| .hitrhcm | .hitrhcm # # | .hitrhcm 270 12000 | [position], turn right heading **270**, climb and maintain **12000**. |
| .hitrhcmv | .hitrhcmv # # # # | .hitrhcmv 12000 270 ILS 12 | [position], climb and maintain **12000**, turn right heading **270**, vector **ILS** Runway **12** approach. |
| .hitrhcmvf | .hitrhcmvf # # # # | .hitrhcmvf 12000 270 RNAV 12 | [position], climb and maintain 12000, turn right heading **270**, vector to **RNAV** Runway **12** final approach course. |
| .hitrhdm | .hitrhdm # # | .hitrhdm 270 12000 | [position], turn right heading **270**, climb and maintain **12000**. |
| .hitrhdmv | .hitrhdmv # # # # | .hitrhdmv 12000 270 ILS 12 | [position], climb and maintain **12000**, turn right heading **270**, vector **ILS** Runway **12** approach. |
| .hitrhdmvf | .hitrhdmvf # # # # | .hitrhdmvf 12000 270 RNAV 12 | [position], climb and maintain **12000**, turn right heading **270**, vector to **RNAV** Runway **12** final approach course. |
| .hipd | .hipd # | .hipd SABEE | [position], proceed direct **SABEE**. |
| .hifhpd | .hifhpd # | .hifhpd 270 SABEE | [position], fly heading **270**. When able, proceed direct **SABEE**. |
| .hipdcm | .hipdcm # # | .hipdcm SABEE 12000 | [position], proceed direct **SABEE**, climb and maintain **12000**. |
| .hipddm | .hipddm # # | .hipddm SABEE 12000 | [position], proceed direct **SABEE**, descend and maintain **12000**. |
| .hicm | .hicm # | .hicm 12000 | [position], climb and maintain **12000**. |
| .hidm | .hidm # | .hidm 12000 | [position], descend and maintain **12000**. |
| .hia | .hia # | .hia KMIA | [position], **KMIA** altimeter [altimeter]. |
| .hiafh | .hiafh # # | .hiafh KMIA 270 | [position], **KMIA** altimeter [altimeter], fly heading **270**. |
| .hiafhv | .hiafhv # # # # | .hiafhv KMIA 270 ILS 12 | [position], **KMIA** altimeter [altimeter], fly heading **270**, vector **ILS** Runway **12** approach. |
| .hiafhvf | .hiafhvf # # # # | .hiafhvf KMIA 270 RNAV 12 | [position], **KMIA** altimeter [altimeter], fly heading **270**, vector to **RNAV** Runway **12** final approach course. |
| .hiafhcm | .hiafhcm # # # | .hiafhcm KMIA 270 12000 | [position], **KMIA** altimeter [altimeter], fly heading **270**, climb and maintain **12000**. |
| .hiafhcmv | .hiafhcmv # # # # # | .hiafhcmv KMIA 12000 270 ILS 12 | [position], **KMIA** altimeter [altimeter], climb and maintain **12000**, fly heading **270**, vector **ILS** Runway **12** approach. |
| .hiafhcmvf | .hiafhcmvf # # # # # | .hiafhcmvf KMIA 12000 270 RNAV 12 | [position], **KMIA** altimeter [altimeter], climb and maintain **12000**, fly heading **270**, vector to **RNAV** Runway **12** final approach course. |
| .hiafhdm | .hiafhdm # # # | .hiafhdm KMIA 270 12000 | [position], **KMIA** altimeter [altimeter], fly heading **270**, descend and maintain **12000**. |
| .hiafhdmv | .hiafhdmv # # # # # | .hiafhdmv KMIA 12000 270 ILS 12 | [position], **KMIA** altimeter [altimeter], descend and maintain **12000**, fly heading **270**, vector **ILS** Runway **12** approach. |
| .hiafhdmvf | .hiafhdmvf # # # # # | .hiafhdmvf KMIA 12000 270 RNAV 12 | [position], **KMIA** altimeter [altimeter], descend and maintain **12000**, fly heading **270**, vector to **RNAV** Runway **12** final approach course. |
| .hiatlh | .hiatlh # # | .hiatlh KMIA 270 | [position], **KMIA** altimeter [altimeter], turn left heading **270**. |
| .hiatlhv | .hiatlhv # # # # | .hiatlhv KMIA 270 ILS 12 | [position], **KMIA** altimeter [altimeter], turn left heading **270**, vector **ILS** Runway **12** approach. |
| .hiatlhvf | .hiatlhvf # # # # | .hiatlhvf KMIA 270 RNAV 12 | [position], **KMIA** altimeter [altimeter], turn left heading **270**, vector to **RNAV** Runway **12** final approach course. |
| .hiatlhcm | .hiatlhcm # # # | .hiatlhcm KMIA 270 12000 | [position], **KMIA** altimeter [altimeter], turn left heading **270**, climb and maintain **12000**. |
| .hiatlhcmv | .hiatlhcmv # # # # # | .hiatlhcmv KMIA 12000 270 ILS 12 | [position], **KMIA** altimeter [altimeter], climb and maintain **12000**, turn left heading **270**, vector **ILS** Runway **12** approach. |
| .hiatlhcmvf | .hiatlhcmvf # # # # # | .hiatlhcmvf KMIA 12000 270 RNAV 12 | [position], **KMIA** altimeter [altimeter], climb and maintain **12000**, turn left heading **270**, vector to **RNAV** Runway **12** final approach course. |
| .hiatlhdm | .hiatlhdm # # # | .hiatlhdm KMIA 270 12000 | [position], **KMIA** altimeter [altimeter], turn left heading **270**, descend and maintain **12000**. |
| .hiatlhdmv | .hiatlhdmv # # # # # | .hiatlhdmv KMIA 12000 270 ILS 12 | [position], **KMIA** altimeter [altimeter], descend and maintain **12000**, turn left heading **270**, vector **ILS** Runway **12** approach. |
| .hiatlhdmvf | .hiatlhdmvf # # # # # | .hiatlhdmvf KMIA 12000 270 RNAV 12 | [position], **KMIA** altimeter [altimeter], descend and maintain **12000**, turn left heading **270**, vector to **RNAV** Runway **12** final approach course. |
| .hiatrh | .hiatrh # # | .hiatrh KMIA 270 | [position], **KMIA** altimeter [altimeter], turn right heading **270**. |
| .hiatrhv | .hiatrhv # # # # | .hiatrhv KMIA 270 ILS 12 | [position], **KMIA** altimeter [altimeter], turn right heading **270**, vector **ILS** Runway **12** approach. |
| .hiatrhvf | .hiatrhvf # # # # | .hiatrhvf KMIA 270 RNAV 12 | [position], **KMIA** altimeter [altimeter], turn right heading **270**, vector to **RNAV** Runway **12** final approach course. |
| .hiatrhcm | .hiatrhcm # # # | .hiatrhcm KMIA 270 12000 | [position], **KMIA** altimeter [altimeter], turn right heading **270**, climb and maintain **12000**. |
| .hiatrhcmv | .hiatrhcmv # # # # # | .hiatrhcmv KMIA 12000 270 ILS 12 | [position], **KMIA** altimeter [altimeter], climb and maintain **12000** turn right heading **270**, vector **ILS** Runway **12** approach. |
| .hiatrhcmvf | .hiatrhcmvf # # # # # | .hiatrhcmvf KMIA 12000 270 RNAV 12 | [position], **KMIA** altimeter [altimeter], climb and maintain **12000**, turn right heading **270**, vector to **RNAV** Runway **12** final approach course. |
| .hiatrhdm | .hiatrhdm # # # | .hiatrhdm KMIA 270 12000 | [position], **KMIA** altimeter [altimeter], turn right heading **270**, descend and maintain **12000**. |
| .hiatrhdmv | .hiatrhdmv # # # # # | .hiatrhdmv KMIA 12000 270 ILS 12 | [position], **KMIA** altimeter [altimeter], descend and maintain **12000**, turn right heading **270**, vector **ILS** Runway **12** approach. |
| .hiatrhdmvf | .hiatrhdmvf # # # # # | .hiatrhdmvf KMIA 12000 270 RNAV 12 | [position], **KMIA** altimeter [altimeter], descend and maintain **12000**, turn right heading **270**, vector to **RNAV** Runway **12** final approach course. |
| .hiapd | .hiapd # # | .hiapd KMIA HEDLY | [position], **KMIA** altimeter [altimeter], proceed direct **HEDLY**. |
| .hiafhpd | .hiafhpd # # | .hiafhpd KMIA 270 HEDLY | [position], **KMIA** altimeter [altimeter], fly heading **270**. When able, proceed direct **HEDLY**. |
| .hiapdcm | .hiapdcm # # # | .hiapdcm KMIA HEDLY 12000 | [position], **KMIA** altimeter [altimeter], proceed direct **HEDLY**, climb and maintain **12000**. |
| .hiapddm | .hiapddm # # # | .hiapddm KMIA HEDLY 12000 | [position], **KMIA** altimeter [altimeter], proceed direct **HEDLY**, descend and maintain **12000**. |
| .hiacm | .hiacm # # | .hiacm KMIA 12000 | [position], **KMIA** altimeter [altimeter], climb and maintain **12000**. |
| .hiadm | .hiadm # # | .hiadm KMIA 12000 | [position], **KMIA** altimeter [altimeter], descend and maintain **12000**. |
| **SPEED CONTROL** | | | |
| .rs | .rs # | .rs 180 | reduce speed to **180**. |
| .rsm | .rsm # | .rsm .88 | reduce speed to mach **.88**. |
| .is | .is # | .is 180 | increase speed to **180**. |
| .ism | .ism # | .ism .88 | increase speed to mach **.88**. |
| .ms | .ms # | .ms 180 | maintain **180** knots. |
| .mm | .mm # | .mm .88 | maintain mach **.88**. |
| .dne | .dne # | .dne 180 | do not exceed **180** knots |
| .dnem | .dnem # | .dnem .88 | do not exceed mach **.88**. |
| .mfs | .mfs | .mfs | maintain maximum forward speed. |
| .sps | .sps | .sps | maintain slowest practical speed. |
| .rfas | .rfas | .rfas | reduce to final approach speed. |
| .csr | .csr | .csr | cancel speed restriction. |
| .rns | .rns | .rns | resume normal speed. |
| **VISUAL APPROACH CLEARANCES** | | | |
| .aprt | .aprt | .aprt | [destination] [clock direction], [distance] miles. Report the field in sight. |
| .va | .va # | .va 12 | cleared visual approach Runway **12**. |
| .ftcva | .ftcva # | .ftcva 12 | follow that traffic, cleared visual approach Runway **12**. |
| **INSTRUMENT APPROACH CLEARANCES** | | | |
| .loc | .loc # | .loc 12 | intercept the Runway **12** localizer. |
| .ptac | .ptac # # # # # # | .ptac 3 GLRIA 150 3000 ILS 12 | **3** miles from from **GLRIA**, fly heading **150**, maintain **3000** until established on the localizer, cleared **ILS** Runway **12** approach. |
| .ptacr | .ptacr # # # # # # | .ptacr 3 GLRIA 150 3000 ILS 12 | **3** miles from from **GLRIA**, turn right heading **150**, maintain **3000** until established on the localizer, cleared **ILS** Runway **12** approach. |
| .ptacl | .ptacl # # # # # # | .ptacl 3 GLRIA 150 3000 ILS 12 | **3** miles from from **GLRIA**, turn left heading **150**, maintain **3000** until established on the localizer, cleared **ILS** Runway **12** approach. |
| .pac | .pac # # # # # # | 3 GLRIA 150 3000 ILS 12 | **3** miles from from **GLRIA**, fly heading **150**, maintain **3000** until established on the localizer, cleared **ILS** Runway **12** approach |
| .pc | .pc # # # # # # | 3 GLRIA 150 3000 ILS 12 | **3** miles from from **GLRIA**, fly heading **150**, maintain **3000** until established on the localizer, cleared **ILS** Runway **12** approach |
| **CROSSING RESTRICTIONS** | | | |
| .xs | .xs # # | .xs WORPP 250 | cross **WORPP** at **250** knots. |
| .xa | .xa # # | .xa WORPP 10000 | cross **WORPP** at and maintain **10000**. |
| .xaa | .xaa # # # | .xaa WORPP 10000 KMIA | cross **WORPP** at and maintain **10000**, **KMIA** altimeter [altimeter]. |
| .xacm | .xacm # # # | .xacm WORPP 10000 12000 | cross **WORPP** at **10000**, climb and maintain **12000**. |
| .xadm | .xadm # # # | .xadm WORPP 10000 8000 | cross **WORPP** at **10000**, descend and maintain **8000**. |
| .xadma | .xadma # # # # | .xadma WORPP 10000 8000 KMIA | cross **WORPP** at **10000**, descend and maintain **8000**, **KMIA** altimeter [altimeter]. |
| .xas | .xas # # # | .xas WORPP 10000 250 | cross **WORPP** at and maintain **10000**, **250** knots. |
| .xasa | .xasa | .xasa WORPP 10000 250 12000 | cross **WORPP** at and maintain **10000**, **250** knots, **KMIA** altimeter [altimeter]. |
| .xascm | .xascm | .xascm WORPP 10000 250 12000 | cross **WORPP** at **10000**, **250** knots, climb and maintain **12000**. |
| .xadm | .xadm | .xadm WORPP 10000 250 8000 | cross **WORPP** at **10000**, **250** knots, descend and maintain **8000**. |
| .xadma | .xadma | .xadma WORPP 10000 250 8000 KMIA | cross **WORPP** at **10000**, **250** knots, descend and maintain **8000**, **KMIA** altimeter [altimeter]. |
| .xaoa | .xaoa # # | .xaoa WORPP 10000 | cross **WORPP** at or above **10000**. |
| .xaoacm | .xaoacm | .xaoacm WORPP 10000 12000 | cross **WORPP** at or above **10000**, climb and maintain **12000**. |
| .xaoadm | .xaoadm | .xaoadm WORPP 10000 8000 | cross **WORPP** at or above **10000**, descend and maintain **8000**. |
| .xaosdma | .xaosdma | .xaosdma WORPP 10000 8000 KMIA | cross **WORPP** at or above **10000**, descend and maintain **8000**, **KMIA** altimeter [altimeter]. |
| .xaoas | .xaoas # # # | .xaoas WORPP 10000 250 | cross **WORPP** at or above **10000**, **250** knots. |
| .xaoascm | .xaoascm | .xaoascm WORPP 10000 250 12000 | cross **WORPP** at or above **10000**, **250** knots, climb and maintain **12000**. |
| .xaoasdm | .xaoasdm | .xaoasdm WORPP 10000 250 8000 | cross **WORPP** at or above **10000**, **250** knots, descend and maintain **8000**. |
| .xaoasdma | .xaoasdma | .xaoasdma WORPP 10000 250 8000 KMIA | cross **WORPP** at or above **10000**, **250** knots, descend and maintain **8000**, **KMIA** altimeter [altimeter]. |
| .xaob | .xaob # # | .xaob WORPP 10000 | cross **WORPP** at or below **10000**. |
| .xaobcm | .xaobcm | .xaobcm | cross **WORPP** at or below **10000**, climb and maintain **12000**. |
| .xaobdm | .xaobdm | .xaobdm | cross **WORPP** at or below **10000**, descend and maintain **8000**. |
| .xaobdma | .xaobdma | .xaobdma | cross **WORPP** at or below **10000**, descend and maintain **8000**, **KMIA** altimeter [altimeter]. |
| .xaobs | .xaobs # # # | .xaobs WORPP 10000 250 | cross **WORPP** at or below **10000**, **250** knots. |
| .xaobscm | .xaobscm | .xaobscm | cross **WORPP** at or below **10000**, **250** knots, climb and maintain **12000**. |
| .xaobsdm | .xaobsdm | .xaobsdm | cross **WORPP** at or below **10000**, **250** knots, descend and maintain **8000**. |
| .xaobsdma | .xaobsdma | .xaobsdma | cross **WORPP** at or below **10000**, **250** knots, descend and maintain **8000**, **KMIA** altimeter [altimeter]. |
| **REPORTS** | | | |
| .rl | .rl # | .rl 12000 | report leaving **12000**. |
| .rp | .rp # | .rp 12000 | report passing **12000**. |
| .rx | .rx # | .rx SABEE | report crossing **SABEE**. |
| .re | .re # | .re localizer | report established on **localizer**. |
| .rrtod | .rrtod | .rrtod | Report reaching top of descent. |

**UNICOM**

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| **GENERAL UNICOM** | | | |
| .rst | .rst | .rst | radar services terminated, change to advisory frequency approved. |
| .rstnto | .rstnto | .rstnto | no observed traffic between you and [destination]. Radar services terminated, change to advisory frequency approved. |
| .rstrci | .rstrci | .rstrci | report cancellation of IFR this frequency. Radar services terminated, change to advisory frequency approved. |
| .rstntorci | .rstntorci | .rstntorci | no traffic observed between you and [destination]. Report cancellation of IFR this frequency. Radar services terminated, change to advisory frequency approved. |
| .bye | .bye | .bye | departing my airspace, no further ATC available. Change to advisory frequency approved. |
| .byev | .byev | .byev | departing my airspace, no further ATC available. Squawk VFR, change to advisory frequency approved. |
| .byeup | .byeup | .byeup | climbing out of my airspace, no further ATC available. Change to advisory frequency approved. |
| .byedown | .byedown | .byedown | descending out of my airsapce, no further ATC available. Change to advisory frequency approved. |
| .byerst | .byerst | .byerst | departing my airspace, no further ATC available. Radar services terminated, change to advisory frequency approved. |
| .byerstv | .byerstv | .byerstv | departing my airspace, no further ATC available. Radar services terminated, squawk VFR, change to advisory frequency approved. |
| .byerstup | .byerstup | .byerstup | climbing out of my airspace, no further ATC available. Radar services terminated, change to advisory frequency approved. |
| .byerstdown | .byerstdown | .byerstdown | descending out of my airsapce, no further ATC available. Radar services terminated, change to advisory frequency approved. |
| .icr | .icr | .icr | IFR cancellation received, [time]. Radar services terminated, squawk VFR, change to advisory frequency approved. |
| .uc | .uc | .uc | monitor unicom 122.8. |

**PRE-DEPARTURE CLERANCES**

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| **USAGE EXAMPLE: Open Private Chat ‐‐> .pdcp 1V G1 (enter, then) .pdc2 (enter, complete) [PDC + call GND for taxi]** | | | |
| **PART 1** | | | |
| .pdcp | .pdcp # # | .pdcp 1V G1 | \*PRE‐DEPARTURE CLEARANCE START\*||CALLSIGN: [callsign]||[time] ZULU||XPNDR: [squawk] ||CRUISE: [cruise]||DEPT: [origin]||ARR: [destination]||EQUIPMENT: [aircraft type]||APPROVED ROUTE: [route]||DEPARTURE FREQ: **124.850** ||GROUND FREQ: **121.800** ||ALTITUDE RESTRICTIONS: [temp]||EXPECT FINAL CRUISE ALTITUDE 10 MINUTES AFTER DEPARTURE.||SID INFORMATION: RNAV DEPARTURES ARE RUNWAY DEPENDENT AND SPECIFICALLY MARKED "RNAV." CONFIRM FIRST RNAV FIX WITH TOWER PRIOR TO DEPARTURE.|| |
| .pdcv | .pdcv # # | .pdcv 1V G1 | \*PRE‐DEPARTURE CLEARANCE START\*||CALLSIGN: [callsign]||[time] ZULU||XPNDR: [squawk] ||CRUISE: [cruise]||DEPT: [origin]||ARR: [destination]]||EQUIPMENT: [aircraft type]||APPROVED ROUTE: [route]||DEPARTURE FREQ: **124.850** ||GROUND FREQ: **121.800** ||ALTITUDE RESTRICTIONS: MAINTAIN [temp]||EXPECT FINAL CRUISE ALTITUDE 10 MINUTES AFTER DEPARTURE.||CONFIRM HEADING WITH TOWER PRIOR TO DEPARTURE.|| |
| .pdcs | .pdcs # # | .pdcs 1V G1 | \*PRE‐DEPARTURE CLEARANCE START\*||CALLSIGN: [callsign]||[time] ZULU||XPNDR: [squawk] ||CRUISE: [cruise]||DEPT: [origin]||ARR: [destination]||EQUIPMENT: [aircraft type]||APPROVED ROUTE: [route]||DEPARTURE FREQ: **124.850** ||GROUND FREQ: **121.800** ||ALTITUDE RESTRICTIONS: CLIMB VIA SID.||EXPECT FINAL CRUISE ALTITUDE 10 MINUTES AFTER DEPARTURE.||SID INFORMATION: RNAV DEPARTURES ARE RUNWAY DEPENDENT AND SPECIFICALLY MARKED "RNAV." CONFIRM FIRST RNAV FIX WITH TOWER PRIOR TO DEPARTURE.|| |
| .pdce | .pdce # # | .pdce 1V G1 | \*PRE‐DEPARTURE CLEARANCE START\*||CALLSIGN: [callsign]||[time] ZULU||XPNDR: [squawk] ||CRUISE: [cruise]||DEPT: [origin]||ARR: [destination]||EQUIPMENT: [aircraft type]||APPROVED ROUTE: [route]||DEPARTURE FREQ: **124.850** ||GROUND FREQ: **121.800** ||ALTITUDE RESTRICTIONS: CLIMB VIA SID, EXCEPT MAINTAIN [temp].||EXPECT FINAL CRUISE ALTITUDE 10 MINUTES AFTER DEPARTURE.||SID INFORMATION: RNAV DEPARTURES ARE RUNWAY DEPENDENT AND SPECIFICALLY MARKED "RNAV." CONFIRM FIRST RNAV FIX WITH TOWER PRIOR TO DEPARTURE.|| |
| **PART 2** | | | |
| .pdc2 | .pdc2 | .pdc2 | ADDITIONAL INFORMATION: DO NOT REPLY TO THIS MESSAGE. GROUND WILL ASSIGN DEPARTURE RUNWAY WITH TAXI INSTRUCTIONS. WHEN READY FOR TAXI, CONTACT APPROPRIATE GROUND CONTROL WITH XPNDR CODE AND CURRENT ATIS, IF AVAILABLE. THIS MESSAGE SERVES AS YOUR PRE‐DEPARTURE CLEARANCE.CONTACT APPROPRIATE CLEARANCE DELIVERY ONLY IF YOU HAVE QUESTIONS REGARDING YOUR CLEARANCE.||\*PRE‐DEPARTURE CLEARANCE END\* |
| .pdc2p | .pdc2p | .pdc2p | ADDITIONAL INFORMATION: DO NOT REPLY TO THIS MESSAGE. GROUND WILL ASSIGN DEPARTURE RUNWAY WITH TAXI INSTRUCTIONS. CONTACT RAMP CONTROL WITH ASSIGNED XPNDR CODE AND CURRENT ATIS, IF AVAILABLE, FOR PUSH INSTRUCTIONS. THIS MESSAGE SERVES AS YOUR PRE‐DEPARTURE CLEARANCE. CONTACT APPROPRIATE CLEARANCE DELIVERY ONLY IF YOU HAVE QUESTIONS REGARDING YOUR CLEARANCE.||\*PRE‐DEPARTURE CLEARANCE END\* |

**CONFIGURATION**

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| **WEATHER** | | | |
| .wxgroup1 | .wxgroup1 | .wxgroup1 | Toggle weather display for KMIA KFLL KTPA KRSW KPBI KSRQ |
| .wxgroup2 | .wxgroup2 | .wxgroup2 | Toggle weather display for KMIA KFLL KOPF KTMB KFXE KHWO |
| .wxgroup3 | .wxgroup3 | .wxgroup3 | Toggle weather display for KTPA KSRQ KLAL KPIE |
| **DEPARTURE GATES  Ensure no other fixes or VORs are currently displayed prior to use.** | | | |
| .gmiat | .gmiat | .gmiat | Display Miami TRACON departure gate fixes (KMIA & KFLL) |
| .gmia | .gmia | .gmia | Display KMIA departure gate fixes. |
| .gfll | .gfll | .gfll | Display KFLL departure gate fixes. |
| .gtpa | .gtpa | .gtpa | Display KTPA departure gate fixes. |
| .gpbi | .gpbi | .gpbi | Display KPBI departure gate fixes – part 1. |
| .gpbi2 | .gpbi2 | .gpbi2 | Display KPBI departure gate fixes – part 2. |
| .grsw | .grsw | .grsw | Display KRSW departure gate fixes. |
| .geyw | .geyw | .geyw | Display KEYW departure gate fixes. |
| **ILS/LOC FIXES  Ensure no other fixes or VORs are currently displayed prior to use.** | | | |
| .imia | .imia | .imia | Display ILS fixes for KMIA – all Runways. |
| .imian | .imian | .imian | Display LOC fixes for KMIA Runways 8L & 26R. |
| .imiac | .imiac | .imiac | Display ILS fixes for KMIA Runways 8R & 26L. |
| .imias | .imias | .imias | Display ILS fixes for KMIA Runways 9 & 27. |
| .imiax | .imiax | .imiax | Display ILS fixes for KMIA Runways 12 & 30. |
| .ifll | .ifll | .ifll | Display ILS fixes for KFLL – all Runways. |
| .iflln | .iflln | .iflln | Display ILS fixes for KFLL Runway 10L & 28R. |
| .iflls | .iflls | .iflls | Display ILS fixes for KFLL Runway 10R & 28L. |

**REFERENCES AND TOOLS**

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| **REFERENCE / LOOK UP FOR AIRLINE THREE LETTER IDENTIFIERS** | | | |
| .id[ICAO] | .id[ICAO] | .idAAL .idPSV | ZMA\_INFO: \*\*\* 3LD: AAL \_\_\_\_\_TELEPHONY: AMERICAN ZMA\_INFO: \*\*\* 3LD: PSV \_\_\_\_\_TELEPHONY: PROSERVICIOS (Virtual: Power)  \*You must be connected to the network for this to work. |

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| **REFERENCE / LOOK UP FOR NAVIGATION EEQUIPMENT SUFFIXES** | | | |
| .eq[code] | .id[code] | .eqA .eqL | ZMA\_INFO: \*\*\* \_\_ /A RNAV: No \_\_ GNSS: No \_\_ MODE-C: Yes \_\_ RVSM: No \_\_ DME: Yes ZMA\_INFO: \*\*\* \_\_ /L RNAV: Yes \_\_ GNSS: Yes\_\_ MODE-C: Yes \_\_ RVSM: Yes\_\_ DME: Yes  \*You must be connected to the network for this to work. |

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| **REFERENCE / LOOK UP FOR NDBs** | | | |
| .ndb[code] | .ndb[code] | .ndbFIS | ZMA\_INFO \*\*\* FISH HOOK NDB  \*You must be connected to the network for this to work. |

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| **REFERENCE / LOOK UP FOR VORs** | | | |
| .vor[code] | .vor[code] | .vorLAL | ZMA\_INFO \*\*\* LAKELAND VORTAC  \*You must be connected to the network for this to work. |