COMMAND REFERENCE SHEET

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GENERAL

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.

Pro Tip: All comms aliases can be followed by a free-form message. E.g.: `.tr 8R Y1-Y-M Give way to the American 73 at N` will yield **"AAL1675, Runway 8R, taxi via Y1-Y-M. Give way to the American 73 at N"**

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CLEARANCE DELIVERY

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.

Pro Tip: All comms aliases can be followed by a free-form message. E.g.: `.tr 8R Y1-Y-M Give way to the American 73 at N` will yield **"AAL1675, Runway 8R, taxi via Y1-Y-M. Give way to the American 73 at N"**

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.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.

Pro Tip: All comms aliases can be followed by a free-form message. E.g.: `.tr 8R Y1-Y-M Give way to the American 73 at N` will yield **"AAL1675, Runway 8R, taxi via Y1-Y-M. Give way to the American 73 at N"**

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PRE-DEPARTURE CLERANCES

PDC FOR ROUTING "AS FILED"				
.pdcaf	.pdcaf # # #	.pdcp 5000 1V G1	*PRE-DEPARTURE CLEARANCE START*||[callsign] ||[time] Z||[origin]-[destination])||SQUAWK [squawk]||ALT: MAINTAIN **5000**, EXP [cruise] 10 MIN AFT DP||DPFRQ: **124.850**||CTC **121.800** FOR TAXI||RTE APPROVED AS FILED: [route] ||*PRE-DEPARTURE CLEARANCE END*	
.pdcmaf	.pdcmaf # #	.pdcmaf 1V G1	MIA	same as .pdcaf, except the altitude is hard-coded
.pdctaf	↑	↑	TPA	
.pdcpaf			PBI	
.pdcraf			RSW	
.pdcfaf			FLL	
PDC FOR FULL ROUTE CLEARANCES				
.pdcfrc	.pdcfrc # # #	.pdcfrc 5000 1V G1	*PRE-DEPARTURE CLEARANCE START*||[aircraft] ||[time] Z||[origin]-[destination]||SQUAWK [squawk] ||ALT: MAINTAIN **5000**, EXP [cruise] 10 MIN AFT DP||DPFRQ: **124.850**||CTC **121.800** FOR TAXI||THE FLWG IS A FULL-RTE CLRNC, AND DIFFERS FROM YOUR REQD RTE. REPLY "ACCEPT" OR "UNABLE" TO ACKNOWLEDGE THIS CHANGE. NEW RTE: [route]||*PRE-DEPARTURE CLEARANCE END*	
.pdcmfrc	.pdcmfrc # #	.pdcmfrc 1V G1	MIA	same as .pdcfrc, except the altitude is hard-coded
.pdctaf	↑	↑	TPA	
.pdcpaf			PBI	
.pdcraf			RSW	
.pdcfaf			FLL	
PDC FOR PARTIAL ROUTE AMENDMENTS				
.pdcrteto	.pdcrteto # # # #	.pdcrteto 5000 ORL 1V G1	*PRE-DEPARTURE CLEARANCE START*||[callsign] ||[time] Z||[origin]-[destination]||SQUAWK [squawk] ||ALT: MAINTAIN **5000**, EXP [cruise]10 MIN AFT DP||DPFRQ: **124.850**||CTC **121.800** FOR TAXI||THE FLWG CONTAINS A PARTIAL RTE AMDMT. AFTER "**ORL**", RTE IS AS FILED. REPLY "ACCEPT" OR "UNABLE" TO ACKNOWLEDGE THIS CHANGE. NEW RTE: [route]||*PRE-DEPARTURE CLEARANCE END*	
.pdcmrteto	.pdcmrteto # # #	.pdcmrteto ORL 1V G1	MIA	same as .pdcrteto, except the altitude is hard-coded
.pdctrteto	↑	↑	TPA	
.pdcprteto			PBI	
.pdcrrteto			RSW	
.pdcfrteto			FLL	

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Pro Tip: All comms aliases can be followed by a free-form message. E.g.: `.tr 8R Y1-Y-M Give way to the American 73 at N` will yield **"AAL1675, Runway 8R, taxi via Y1-Y-M. Give way to the American 73 at N"**

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PRE-DEPARTURE CLERANCES: ADDING PDAR ROUTING

PDC FOR ADDING PDAR ROUTING (KMIA)			
.pdcwincoy280	.pdcwincoy280 # #	.pdcwincoy280 1V G1	*PRE-DEPARTURE CLEARANCE START*||[callsign] ||[time] Z||[origin]-[destination]||SQUAWK [squawk] ||ALT: MAINTAIN 5000, EXP [cruise] 10 MIN AFT DP||DPFRQ: **124.850**||CTC **121.800** FOR TAXI||THE FLWG CONTAINS A PARTIAL RTE AMDMT. AFTER "Y280", RTE IS AS FILED. REPLY "ACCEPT" OR "UNABLE" TO ACKNOWLEDGE THIS CHANGE. NEW RTE: WINCO CHRRI DOLIE Y280...||*PRE-DEPARTURE CLEARANCE END*
.pdcwincoq100 .pdcwincoq110 .pdcwincoq116 .pdcwincoq118 .pdchedlyq77 .pdchedlyq87	↑	↑	↑
PDC FOR ADDING PDAR ROUTING (KFLL)			
.pdcthndry280	.pdcthndry280	.pdcthndry280 1L G2	*PRE-DEPARTURE CLEARANCE START*||[callsign] ||[time] Z||[origin]-[destination]||SQUAWK [squawk] ||ALT: MAINTAIN 3000, EXP [cruise] 10 MIN AFT DP||DPFRQ: **126.050**||CTC **121.400** FOR TAXI||THE FLWG CONTAINS A PARTIAL RTE AMDMT. AFTER "Y280", RTE IS AS FILED. REPLY "ACCEPT" OR "UNABLE" TO ACKNOWLEDGE THIS CHANGE. NEW RTE: THNDR JAYMC Y280...||*PRE-DEPARTURE CLEARANCE END*
.pdcthndrq100 .pdcthndrq110 .pdcthndrq116 .pdcthndrq118 .pdcarkesq77 .pdcarkesq87	↑	↑	↑

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Pro Tip: All comms aliases can be followed by a free-form message. E.g.: `.tr 8R Y1-Y-M Give way to the American 73 at N` will yield **"AAL1675, Runway 8R, taxi via Y1-Y-M. Give way to the American 73 at N"**

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GROUND

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.

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Pro Tip: All comms aliases can be followed by a free-form message. E.g.: `.tr 8R Y1-Y-M Give way to the American 73 at N` will yield **"AAL1675, Runway 8R, taxi via Y1-Y-M. Give way to the American 73 at N"**

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.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.

Pro Tip: All comms aliases can be followed by a free-form message. E.g.: `.tr 8R Y1-Y-M Give way to the American 73 at N` will yield **"AAL1675, Runway 8R, taxi via Y1-Y-M. Give way to the American 73 at N"**

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.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**.

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Pro Tip: All comms aliases can be followed by a free-form message. E.g.: `.tr 8R Y1-Y-M Give way to the American 73 at N` will yield **"AAL1675, Runway 8R, taxi via Y1-Y-M. Give way to the American 73 at N"**

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.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**.

Pro Tip: All comms aliases can be followed by a free-form message. E.g.: **`.tr 8R Y1-Y-M Give way to the American 73 at N`** will yield **"AAL1675, Runway 8R, taxi via Y1-Y-M. Give way to the American 73 at N"**

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TOWER

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**.

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.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.

Pro Tip: All comms aliases can be followed by a free-form message. E.g.: **`.tr 8R Y1-Y-M Give way to the American 73 at N`** will yield **"AAL1675, Runway 8R, taxi via Y1-Y-M. Give way to the American 73 at N"**

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VFR

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.

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.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.

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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**.

Pro Tip: All comms aliases can be followed by a free-form message. E.g.: `.tr 8R Y1-Y-M Give way to the American 73 at N` will yield **"AAL1675, Runway 8R, taxi via Y1-Y-M. Give way to the American 73 at N"**

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.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**.

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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.

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.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.

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Pro Tip: All comms aliases can be followed by a free-form message. E.g.: `.tr 8R Y1-Y-M Give way to the American 73 at N` will yield **"AAL1675, Runway 8R, taxi via Y1-Y-M. Give way to the American 73 at N"**

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.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**.

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.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**.

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.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

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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**.

Pro Tip: All comms aliases can be followed by a free-form message. E.g.: `.tr 8R Y1-Y-M Give way to the American 73 at N` will yield **"AAL1675, Runway 8R, taxi via Y1-Y-M. Give way to the American 73 at N"**

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.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.

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UNICOM

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.

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CONFIGURATION

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.

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REFERENCES AND TOOLS

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.

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.

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.

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.

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