

COMMAND REFERENCE SHEET

ALIAS FILE VERSION 2023.06.19

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 airspeed.
.sm	.sm	.sm	say mach number.
.smn	.smn	.smn	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. Please stand by.****
.closed	.closed #	.closed 1V	****NOTAM: Miami Approach CLOSED at [time]. Monitor unicom 122.8****
.closedto	.closedto #	.closedto 46	****NOTAM: Miami Approach CLOSED at [time]. All aircraft contact Miami Center, 135.175 ****
.sg	.sg	.sg	when able, say gate number.
.sp	.sp	.sp	when able, say parking.

BOLD – user controlled

UNDERLINE – pulled from flight strip / data tag / system

VATSIM Miami vARTCC (ZMA)

www.zmaartcc.net

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 <u>[cruise]</u> 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 <u>[cruise]</u> 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 <u>[destination]</u> airport as filed. Climb and maintain 5000 , expect <u>[cruise]</u> one-zero minutes after departure, departure frequency 124.850 , squawk <u>[squawk]</u> .
.craftu	.craftu #	.craftu 5000	cleared to <u>[destination]</u> airport as filed. Climb and maintain 5000 , expect <u>[cruise]</u> one-zero minutes after departure. Departure control services are not available, squawk <u>[squawk]</u> .
.crafts	.crafts # # #	.crafts HEDLY2 5000 1V	cleared to <u>[destination]</u> airport, HEDLY2 departure, then as filed. Climb and maintain 5000 , expect <u>[cruise]</u> one-zero minutes after departure, departure frequency 124.850 , squawk <u>[squawk]</u> .
.craftsu	.craftsu # #	.craftsu HEDLY2 5000	cleared to <u>[destination]</u> airport, HEDLY2 departure, then as filed. Climb and maintain 5000 , expect <u>[cruise]</u> one-zero minutes after departure. Departure control services are not available, squawk <u>[squawk]</u> .
.craftscvs	.craftscvs # #	.craftscvs HEDLY2 1V	cleared to <u>[destination]</u> airport, HEDLY2 departure, then as filed. Climb via SID, departure frequency 124.850 , squawk <u>[squawk]</u> .
.craftscvse	.craftscvse # # #	.craftscvse HEDLY2 5000 1V	cleared to <u>[destination]</u> airport, HEDLY2 departure, then as filed. Climb via SID, except maintain 5000 . Expect <u>[cruise]</u> one-zero minutes after departure, departure frequency 124.850 , squawk <u>[squawk]</u> .
.craftst	.craftst # # # #	.craftst HITAG2 HEDLY 5000 1V	cleared to <u>[destination]</u> airport, HITAG2 departure, HEDLY transition, then as filed. Climb and maintain 5000 , expect <u>[cruise]</u> one-zero minutes after departure, departure frequency 124.850 , squawk <u>[squawk]</u> .
.craftstu	.craftstu # # #	.craftstu HITAG2 HEDLY 5000	cleared to <u>[destination]</u> airport, HITAG2 departure, HEDLY transition, then as filed. Climb and maintain 5000 , expect <u>[cruise]</u> one-zero minutes after departure. Departure control services are not available, squawk <u>[squawk]</u> .
.craftstcvs	.craftstcvs # # #	.craftstcvs HITAG2 HEDLY 1V	cleared to <u>[destination]</u> airport, HITAG2 departure, HEDLY transition, then as filed. Climb via SID. Departure frequency 124.850 , squawk <u>[squawk]</u> .
.craftstcvse	.craftstcvse # # # #	.craftstcvse HITAG2 HEDLY 5000 1V	cleared to <u>[destination]</u> airport, HITAG2 departure, HEDLY transition, then as filed. Climb via SID except maintain 5000 . Expect <u>[cruise]</u> one-zero minutes after departure, departure frequency 124.850 , squawk <u>[squawk]</u> .
.craftv	.craftv # # #	.craftv HEDLY 5000 1V	cleared to <u>[destination]</u> airport via radar vectors HEDLY , then as filed. Climb and maintain 5000 , expect <u>[cruise]</u> one-zero minutes after departure, departure frequency 124.850 , squawk <u>[squawk]</u> .
.craftvu	.craftvu # #	.craftvu HEDLY 5000	cleared to <u>[destination]</u> airport via direct HEDLY , then as filed. Climb and maintain 5000 , expect <u>[cruise]</u> one-zero minutes after departure. Departure control services are not available, squawk <u>[squawk]</u> .
.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.

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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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.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.

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PRE-DEPARTURE CLERANCES

PDC FOR ROUTING “AS FILED” ^{1 2}				
.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	↑	↑	MIA	same as .pdcaf, except the altitude is hard-coded
.pdctaf			TPA	
.pdcpaf			PBI	
.pdcraf			RSW	
.pdcfaf			FLL	
PDC FOR FULL ROUTE CLEARANCES ^{1 2}				
.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	↑	↑	MIA	same as .pdcfrc, except the altitude is hard-coded
.pdctfrc			TPA	
.pdcpfrc			PBI	
.pdcrfrc			RSW	
.pdcffrc			FLL	
PDC FOR PARTIAL ROUTE AMENDMENTS ^{1 2}				
.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	↑	↑	MIA	same as .pdcrteto, except the altitude is hard-coded
.pdctrto			TPA	
.pdcperto			PBI	
.pdcrrto			RSW	
.pdcfrto			FLL	

¹Amended "PD" to the end of a PDC alias to indicate pushback is at the pilot's discretion.

²Amend "CFP" to the end of a PDC alias to indicate the pilot must call the second controller listed for pushback.

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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.
.ersg	.ersg	.ersg	exit RIGHT when able, then say gate number.

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.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.
.ertrohssp	.ertrohssp # #	.ertrohssp M N	exit RIGHT when able, then turn RIGHT 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 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.
.ertlohssp	.ertlohssp # #	.ertlohssp 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.
.eltrohssp	.eltrohssp # #	.eltrohssp 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.

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.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.
.tlnth	.tlnth #	.tlnth 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.
.trnth	.trnth #	.trnth Y	turn right next taxiway, hold short of Y .
.trntcr	.trntcr #	.trntcr 28	turn right next taxiway, cross Runway 28 .

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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.
.ctofhwd	.ctofhwd # # #	.ctofhwd 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.
.ctotrhwd	.ctotrhwd # # #	.ctotrhwd 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.

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VATSIM Miami vARTCC (ZMA)

www.zmaartcc.net

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COMMAND REFERENCE SHEET

ALIAS FILE VERSION 2023.06.19

.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.
.hstof1	.hstof1 # #	.hstof1 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.

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COMMAND REFERENCE SHEET

ALIAS FILE VERSION 2023.06.19

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 <u>[squawk]</u> .
.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 <u>[squawk]</u> .
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 <u>[squawk]</u> .
.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 <u>[squawk]</u> .
.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 .
.vfrncb	.vfrncb # #	.vfrncb 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.

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COMMAND REFERENCE SHEET

ALIAS FILE VERSION 2023.06.19

.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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COMMAND REFERENCE SHEET

ALIAS FILE VERSION 2023.06.19

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 <u>[squawk]</u> .
.sqid	.sqid	.sqid	squawk <u>[squawk]</u> and ident.
.csq	.csq	.csq	check transponder. Verify squawking <u>[squawk]</u> .
.hiid	.hiid	.hiid	<u>[position]</u> , squawk ident.
.hisq	.hisq	.hisq	<u>[position]</u> , squawk <u>[squawk]</u> .
.hisqid	.hisqid	.hisqid	<u>[position]</u> , squawk <u>[squawk]</u> and ident.
.hiaid	.hiaid #	.hiaid KMIA	<u>[position]</u> , KMIA altimeter <u>[altimeter]</u> , squawk ident.
.hiasq	.hiasq #	.hiasq KMIA	<u>[position]</u> , KMIA altimeter <u>[altimeter]</u> , squawk <u>[squawk]</u> .
.hiasqid	.hiasqid #	.hiasqid KMIA	<u>[position]</u> , KMIA altimeter <u>[altimeter]</u> , squawk <u>[squawk]</u> 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 <u>[distance]</u> miles <u>[bearing]</u> of JURER .
.rcpossa	.rcpossa #	.rcpossa JURER	radar contact <u>[distance]</u> miles <u>[bearing]</u> of JURER , say altitude.
.rcpossal	.rcpossal #	.rcpossal JURER	radar contact <u>[distance]</u> miles <u>[bearing]</u> of JURER , say altitude leaving.
.hisa	.hisa	.hisa	<u>[position]</u> , say altitude.
.hirc	.hirc	.hirc	<u>[position]</u> , radar contact.
.hircsa	.hircsa	.hircsa	<u>[position]</u> , radar contact, say altitude.
.hircsal	.hircsal	.hircsal	<u>[position]</u> , radar contact, say altitude leaving.
.hircpos	.hircpos #	.hircpos JURER	<u>[position]</u> , radar contact <u>[distance]</u> miles <u>[bearing]</u> of JURER .
.hircpossa	.hircpossa #	.hircpossa JURER	<u>[position]</u> , radar contact <u>[distance]</u> miles <u>[bearing]</u> of JURER , say altitude.
.hircpossal	.hircpossal #	.hircpossal JURER	<u>[position]</u> , radar contact <u>[distance]</u> miles <u>[bearing]</u> of JURER , say altitude leaving.
.hiasa	.hiasa #	.hiasa KMIA	<u>[position]</u> , KMIA altimeter <u>[altimeter]</u> , say altitude.
.hiarc	.hiarc #	.hiarc KMIA	<u>[position]</u> , KMIA altimeter <u>[altimeter]</u> , radar contact.
.hiarcsa	.hiarcsa #	.hiarcsa KMIA	<u>[position]</u> , KMIA altimeter <u>[altimeter]</u> , radar contact, say altitude.
.hiarcsal	.hiarcsal #	.hiarcsal KMIA	<u>[position]</u> , KMIA altimeter <u>[altimeter]</u> , radar contact, say altitude leaving.
.hiarcpos	.hiarcpos # #	.hiarcpos KMIA JURER	<u>[position]</u> , KMIA altimeter <u>[altimeter]</u> , radar contact <u>[distance]</u> miles <u>[bearing]</u> of JURER .
.hiarcpossa	.hiarcpossa # #	.hiarcpossa KMIA JURER	<u>[position]</u> , KMIA altimeter <u>[altimeter]</u> , radar contact <u>[distance]</u> miles <u>[bearing]</u> of JURER , say altitude.

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VATSIM Miami vARTCC (ZMA)

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COMMAND REFERENCE SHEET

ALIAS FILE VERSION 2023.06.19

.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 .
.tfcr1	.tfcr1 # # # #	.tfcr1 11 4 B747 FL290	traffic 11 o'clock, 4 miles, right to left, B747 , FL290 .
.tfcr1c	.tfcr1c # # # # #	.tfcr1c 11 4 C172 5000 7000	traffic 11 o'clock, 4 miles, right to left, C172 , leaving 5000 , climbing to 7000 .
.tfcr1d	.tfcr1d # # # # #	.tfcr1d 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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ALIAS FILE VERSION 2023.06.19

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.

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ALIAS FILE VERSION 2023.06.19

.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 .
.pdc	.pdc # #	.pdc SABEE 12000	proceed direct SABEE , climb and maintain 12000 .
.pdd	.pdd # #	.pdd 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.

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COMMAND REFERENCE SHEET

ALIAS FILE VERSION 2023.06.19

.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 .
.hiea	.hiea # #	.hiea ILS 8R	[position], expect ILS runway 8R approach.
.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.

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COMMAND REFERENCE SHEET

ALIAS FILE VERSION 2023.06.19

.hiatlh	.hiatlh # #	.hiatlh KMIA 270	[<u>position</u>], KMIA altimeter [<u>altimeter</u>], turn left heading 270 .
.hiatlhv	.hiatlhv # # # #	.hiatlhv KMIA 270 ILS 12	[<u>position</u>], KMIA altimeter [<u>altimeter</u>], turn left heading 270 , vector ILS Runway 12 approach.
.hiatlhvf	.hiatlhvf # # # #	.hiatlhvf KMIA 270 RNAV 12	[<u>position</u>], KMIA altimeter [<u>altimeter</u>], turn left heading 270 , vector to RNAV Runway 12 final approach course.
.hiatlhcm	.hiatlhcm # # #	.hiatlhcm KMIA 270 12000	[<u>position</u>], KMIA altimeter [<u>altimeter</u>], turn left heading 270 , climb and maintain 12000 .
.hiatlhcmv	.hiatlhcmv # # # #	.hiatlhcmv KMIA 12000 270 ILS 12	[<u>position</u>], KMIA altimeter [<u>altimeter</u>], climb and maintain 12000 , turn left heading 270 , vector ILS Runway 12 approach.
.hiatlhcmvf	.hiatlhcmvf # # # # #	.hiatlhcmvf KMIA 12000 270 RNAV 12	[<u>position</u>], KMIA altimeter [<u>altimeter</u>], climb and maintain 12000 , turn left heading 270 , vector to RNAV Runway 12 final approach course.
.hiatlhdm	.hiatlhdm # # #	.hiatlhdm KMIA 270 12000	[<u>position</u>], KMIA altimeter [<u>altimeter</u>], turn left heading 270 , descend and maintain 12000 .
.hiatlhdmv	.hiatlhdmv # # # #	.hiatlhdmv KMIA 12000 270 ILS 12	[<u>position</u>], KMIA altimeter [<u>altimeter</u>], descend and maintain 12000 , turn left heading 270 , vector ILS Runway 12 approach.
.hiatlhdmvf	.hiatlhdmvf # # # # #	.hiatlhdmvf KMIA 12000 270 RNAV 12	[<u>position</u>], KMIA altimeter [<u>altimeter</u>], descend and maintain 12000 , turn left heading 270 , vector to RNAV Runway 12 final approach course.
.hiatr	.hiatr # #	.hiatr KMIA 270	[<u>position</u>], KMIA altimeter [<u>altimeter</u>], turn right heading 270 .
.hiatr	.hiatr # # # #	.hiatr KMIA 270 ILS 12	[<u>position</u>], KMIA altimeter [<u>altimeter</u>], turn right heading 270 , vector ILS Runway 12 approach.
.hiatr	.hiatr # # # #	.hiatr KMIA 270 RNAV 12	[<u>position</u>], KMIA altimeter [<u>altimeter</u>], turn right heading 270 , vector to RNAV Runway 12 final approach course.
.hiatr	.hiatr # # #	.hiatr KMIA 270 12000	[<u>position</u>], KMIA altimeter [<u>altimeter</u>], turn right heading 270 , climb and maintain 12000 .
.hiatr	.hiatr # # # #	.hiatr KMIA 12000 270 ILS 12	[<u>position</u>], KMIA altimeter [<u>altimeter</u>], climb and maintain 12000 turn right heading 270 , vector ILS Runway 12 approach.
.hiatr	.hiatr # # # #	.hiatr KMIA 12000 270 RNAV 12	[<u>position</u>], KMIA altimeter [<u>altimeter</u>], climb and maintain 12000 , turn right heading 270 , vector to RNAV Runway 12 final approach course.
.hiatr	.hiatr # # #	.hiatr KMIA 270 12000	[<u>position</u>], KMIA altimeter [<u>altimeter</u>], turn right heading 270 , descend and maintain 12000 .
.hiatr	.hiatr # # # #	.hiatr KMIA 12000 270 ILS 12	[<u>position</u>], KMIA altimeter [<u>altimeter</u>], descend and maintain 12000 , turn right heading 270 , vector ILS Runway 12 approach.
.hiatr	.hiatr # # # #	.hiatr KMIA 12000 270 RNAV 12	[<u>position</u>], KMIA altimeter [<u>altimeter</u>], descend and maintain 12000 , turn right heading 270 , vector to RNAV Runway 12 final approach course.
.hiap	.hiap # #	.hiap KMIA HEDLY	[<u>position</u>], KMIA altimeter [<u>altimeter</u>], proceed direct HEDLY .
.hiaf	.hiaf # #	.hiaf KMIA 270 HEDLY	[<u>position</u>], KMIA altimeter [<u>altimeter</u>], fly heading 270 . When able, proceed direct HEDLY .
.hiap	.hiap # # #	.hiap KMIA HEDLY 12000	[<u>position</u>], KMIA altimeter [<u>altimeter</u>], proceed direct HEDLY , climb and maintain 12000 .
.hiap	.hiap # # #	.hiap KMIA HEDLY 12000	[<u>position</u>], KMIA altimeter [<u>altimeter</u>], proceed direct HEDLY , descend and maintain 12000 .

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COMMAND REFERENCE SHEET

ALIAS FILE VERSION 2023.06.19

.hiacm	.hiacm # #	.hiacm KMIA 12000	[<u>position</u>], KMIA altimeter [<u>altimeter</u>], climb and maintain 12000 .
.hiadm	.hiadm # #	.hiadm KMIA 12000	[<u>position</u>], KMIA altimeter [<u>altimeter</u>], descend and maintain 12000 .
.hiaea	.hiaea # # #	.hiaea KMIA ILS 8R	[<u>position</u>], KMIA altimeter [<u>altimeter</u>], expect ILS runway 8R approach.
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	[<u>destination</u>] [<u>clock direction</u>], [<u>distance</u>] 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 [<u>altimeter</u>].

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ALIAS FILE VERSION 2023.06.19

.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 <u>[altimeter]</u> .
.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 <u>[altimeter]</u> .
.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 <u>[altimeter]</u> .
.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 <u>[altimeter]</u> .
.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 <u>[altimeter]</u> .
.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 <u>[altimeter]</u> .
.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 <u>[altimeter]</u> .
REPORTS			
.rl	.rl #	.rl 12000	report leaving 12000 .
.rp	.rp #	.rp 12000	report passing 12000 .
.rx	.rx #	.rx SABEE	report crossing SABEE .

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.re	.re #	.re localizer	report established on localizer .
.rrtod	.rrtod	.rrtod	Report reaching top of descent.

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COMMAND REFERENCE SHEET

ALIAS FILE VERSION 2023.06.19

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 airspace, 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 airspace, 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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ALIAS FILE VERSION 2023.06.19

CONFIGURATION

WEATHER			
.wxgroup1	.wxgroup1	.wxgroup1	Toggle weather display for KMIA KFL KPA KRSW KPBI KSRQ
.wxgroup2	.wxgroup2	.wxgroup2	Toggle weather display for KMIA KFL KOPF KTMB KFXE KHOW
.wxgroup3	.wxgroup3	.wxgroup3	Toggle weather display for KPA KSRQ KLAL KPFE
VALID DEPARTURE FIXES			
Ensure no other fixes or VORs are currently displayed prior to use.			
.vdfmiat	.vdfmiat	.vdfmiat	Display Miami TRACON departure gate fixes (KMIA & KFL)
.vdfmia	.vdfmia	.vdfmia	Display KMIA departure gate fixes.
.vdffll	.vdffll	.vdffll	Display KFL departure gate fixes.
.vdftpa	.vdftpa	.vdftpa	Display KPA departure gate fixes.
.vdfpbi	.vdfpbi	.vdfpbi	Display KPBI departure gate fixes.
.vdfrsw	.vdfrsw	.vdfrsw	Display KRSW departure gate fixes.
.vdfeyw	.vdfeyw	.vdfeyw	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.
.imiox	.imiox	.imiox	Display ILS fixes for KMIA Runways 12 & 30.
.ifll	.ifll	.ifll	Display ILS fixes for KFL – all Runways.
.iflln	.iflln	.iflln	Display ILS fixes for KFL Runway 10L & 28R.
.iflls	.iflls	.iflls	Display ILS fixes for KFL Runway 10R & 28L.
VRC ONLY			
.brief	.brief	.brief	Brings up a VRC sticky with position relief briefing items.
.sopmia	.sopmia	.sopmia	Brings up a VRC sticky with SOP altitudes out of KMIA.
.soptpa	.soptpa	.soptpa	Brings up a VRC sticky with SOP altitudes out of KPA.
.soprsw	.soprsw	.soprsw	Brings up a VRC sticky with SOP altitudes out of KRSW.
VERAM ONLY			
.nm	.nm	.nm	Removes any markers (equivalent to .nomarkers).
.c	.c #	.c KMIA	Moves center of display to the specified location (in this case, to KMIA).

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COMMAND REFERENCE SHEET

ALIAS FILE VERSION 2023.06.19

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.
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REFERENCE / LOOK UP FOR NAVIGATION EQUIPMENT 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.
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REFERENCE / LOOK UP FOR PDAR ROUTE STRINGS

.[airport initial][airway]	.[airport initial][airway]	.my280 .fq87	ZMA_INFO *** WINCO CHRRI DOLIE Y280 ZMA_INFO *** ARKES SEAZY ONEWY Q87 *You must be connected to the network for this to work.
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REFERENCE / LOOK UP IFR ROUTES BETWEEN AIRPORTS

.flightaware	.flightaware # #	.flightaware KMIA EGLL .flightaware MIA LHR	A web browser window will open with a list of IFR routes from FlightAware between Miami International and London Heathrow
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