Command	Description	Usage	Argument types	Function
ADDNODES	Add a simulation instance/node	ADDNODES number	int	Simulation.addNodes of bluesky.sim.qtgl.simulation.Simulation object
ADDWPT	Add a waypoint to route of aircraft (FMS)	ADDWPT acid, (wpname/lat,lon),[alt,spd,afterwp]	acid,wpt,[alt,spd,wpinroute]	
AFTER	After waypoint, add a waypoint to route of aircraft (FMS)	acid AFTER afterwp ADDWPT (wpname/lat,lon),[alt,spd]	acid,wpinroute,txt,wpt,[alt,spd]	
ALT	Altitude command (autopilot)	ALT acid, alt, [vspd]	acid,alt,[vspd]	Autopilot.selalt of bluesky.traf.autopilot.Autopilot object
AREA	Define experiment area (area of interest)	AREA Shapename/OFF or AREA lat,lon,lat,lon,[top,bottom]	[float/txt,float,float,float,alt,alt]	
ASAS	Airborne Separation Assurance System switch	ASAS ON/OFF	[onoff]	ASAS.toggle of bluesky.traf.asas.asas.ASAS object
AT	Edit, delete or show spd/alt constraints at a waypoint in the route	acid AT wpname [DEL] SPD/ALT [spd/alt]	acid,wpinroute,[txt,txt]	
BATCH	Start a scenario file as batch simulation	BATCH filename	string	Simulation.batch of bluesky.sim.qtgl.simulation.Simulation object
BENCHMARK	Run benchmark	BENCHMARK [scenfile,time]	[txt,time]	Simulation.benchmark of bluesky.sim.qtgl.simulation.Simulation object
BOX	Define a box-shaped area	BOX name,lat,lon,lat,lon,[top,bottom]	txt,latlon,latlon,[alt,alt]	
CALC	Simple in-line math calculator, evaluates expression	CALC expression	string	
CDMETHOD	Set conflict detection method	CDMETHOD [method]	[txt]	ASAS.SetCDmethod of bluesky.traf.asas.asas.ASAS object
CIRCLE	Define a circle-shaped area	CIRCLE name,lat,lon,radius,[top,bottom]	txt,latlon,float,[alt,alt]	
CRE	Create an aircraft	CRE acid,type,lat,lon,hdg,alt,spd	txt,txt,latlon,hdg,alt,spd	Traffic.create of bluesky.traf.traffic.Traffic object
DATAFEED	Select an ADS-B data source for traffic	DATAFEED [ON/OFF]	[onoff]	Modesbeast.toggle of bluesky.tools.datafeed.Modesbeast object
DEFWPT	Define a waypoint only for this scenario/run	DEFWPT wpname,[lat,lon,type,refapt,countrycode]	txt,[latlon,txt,txt,txt]	
DEL	Delete command (aircraft, wind, area)	DEL acid/WIND/shape	txt	
DELRTE	Delete for this a/c the complete route/dest/orig (FMS)	DELRTE acid	acid	
DELWPT	Delete a waypoint from a route (FMS)	DELWPT acid,wpname	acid,wpinroute	
DEST	Set destination of aircraft, aircraft wil fly to this airport	DEST acid, latlon/airport	acid,wpt/latlon	
DIRECT	Go direct to specified waypoint in route (FMS)	DIRECT acid wpname	acid,txt	
DIST	Distance and direction calculation between two positions	DIST lat0, lon0, lat1, lon1	latlon,latlon	
DT	Set simulation time step	DT dt	float	Simulation.setDt of bluesky.sim.qtgl.simulation.Simulation object
DTLOOK	Set lookahead time in seconds for conflict detection	DTLOOK [time]	[float]	ASAS.SetDtLook of bluesky.traf.asas.asas.ASAS object
DTMULT	Sel multiplication factor for fast-time simulation	DTMULT multiplier	float	Simulation.setDtMultiplier of bluesky.sim.qtgl.simulation.Simulation object
DTNOLOOK	Set interval for conflict detection	DTNOLOOK [time]	[float]	ASAS.SetDtNoLook of bluesky.traf.asas.asas.ASAS object
DUMPRTE	Write route to output/routelog.txt	DUMPRTE acid	acid	
ECHO	Show a text in command window for user to read	ECHO txt	string	ScreenIO.echo of bluesky.sim.qtgl.screenio.ScreenIO object
ENG	Specify a different engine type	ENG acid,[engine_id]	acid,[txt]	Perf.engchange of bluesky.traf.perf.Perf instance
FF	Fast forward the simulation	FF [tend]	[time]	Simulation.fastforward of bluesky.sim.qtgl.simulation.Simulation object
FIXDT	Fix the time step	FIXDT ON/OFF [tend]	onoff,[time]	Simulation.setFixdt of bluesky.sim.qtgl.simulation.Simulation object
GETWIND	Get wind at a specified position (and optionally at altitude)	GETWIND lat,lon,[alt]	latlon,[alt]	WindSim.get of bluesky.traf.windsim.WindSim instance
HDG	Heading command (autopilot)	HDG acid,hdg (deg,True)	acid,float	Autopilot.selhdg of bluesky.traf.autopilot.Autopilot object
HELP	Show help on a command, show pdf or write list of commands to file	HELP [command]/pdf/ >filename	[txt]	
HOLD	Pause(hold) simulation	HOLD		Simulation.pause of bluesky.sim.qtgl.simulation.Simulation object
IC	Initial condition: (re)start simulation and open scenario file	IC [IC/filename]	[string]	
INSEDIT	Insert text op edit line in command window	INSEDIT txt	string	ScreenIO.cmdline of bluesky.sim.qtgl.screenio.ScreenIO object
INSTLOG	INSTLOG data logging on	INSTLOG ON/OFF,[dt] or LISTVARS or SELECTVARS var1,...,varn	[txt,float/txt,...]	CSVLogger.stackio of bluesky.tools.datalog.CSVLogger instance
LINE	Draw a line on the radar screen	LINE name,lat,lon,lat,lon	txt,latlon,latlon	
LISTRTE	Show list of route in window per page of 5 waypoints	LISTRTE acid, [pagenr]	acid,[int]	
LNAV	LNAV (lateral FMS mode) switch for autopilot	LNAV acid,[ON/OFF]	acid,[onoff]	Autopilot.setLNAV of bluesky.traf.autopilot.Autopilot object
MCRE	Multiple random create of n aircraft in current view	MCRE n, [type/*, alt/*, spd/*, dest/*]	int,[txt,alt,spd,txt]	
METRIC	Complexity metrics module	METRIC OFF/0/1/2, [dt]	onoff/int,[float]	
MOVE	Move an aircraft to a new position	MOVE acid,lat,lon,[alt,hdg,spd,vspd]	acid,latlon,[alt,hdg,spd,vspd]	Traffic.move of bluesky.traf.traffic.Traffic object
ND	Show navigation display with CDTI	ND acid	txt	
NOISE	Turbulence/noise switch	NOISE [ON/OFF]	[onoff]	Traffic.setNoise of bluesky.traf.traffic.Traffic object
NOM	Set nominal acceleration for this aircraft (perf model)	NOM acid	acid	Traffic.nom of bluesky.traf.traffic.Traffic object
NORESO	Switch off conflict resolution for this aircraft	NORESO [acid]	[string]	ASAS.SetNoreso of bluesky.traf.asas.asas.ASAS object
OP	Start/Run simulation or continue after pause	OP		Simulation.start of bluesky.sim.qtgl.simulation.Simulation object
ORIG	Set origin airport of aircraft	ORIG acid, latlon/airport	acid,wpt/latlon	
PAN	Pan screen (move view) to a waypoint, direction or aircraft	PAN latlon/acid/airport/waypoint/LEFT/RIGHT/ABOVE/DOWN	pandir/latlon	ScreenIO.pan of bluesky.sim.qtgl.screenio.ScreenIO object
PCALL	Call commands in another scenario file	PCALL filename [REL/ABS]	txt,[txt]	
POLY	Define a polygon-shaped area	POLY name,lat,lon,lat,lon, ...	txt,latlon,...	
POLYALT	Define a polygon-shaped area in 3D: between two altitudes	POLY name,top,bottom,lat,lon,lat,lon, ...	txt,alt,alt,latlon,...	
POS	Get info on aircraft	POS acid	acid	
PRIORULES	Define priority rules (right of way) for conflict resolution	PRIORULES [ON/OFF PRIOCODE]	[onoff, txt]	ASAS.SetPrio of bluesky.traf.asas.asas.ASAS object
QUIT	Quit program/Stop simulation	QUIT		Simulation.stop of bluesky.sim.qtgl.simulation.Simulation object
RESET	Reset simulation	RESET		Simulation.reset of bluesky.sim.qtgl.simulation.Simulation object
RESO	Set resolution method	RESO [method]	[txt]	ASAS.SetCRmethod of bluesky.traf.asas.asas.ASAS object
RESOOFF	Switch for conflict resolution module	RESOOFF [acid]	[string]	ASAS.SetResooff of bluesky.traf.asas.asas.ASAS object
RFACH	Set resolution factor horizontal (to add a margin)	RFACH [factor]	[float]	ASAS.SetResoFacH of bluesky.traf.asas.asas.ASAS object

RFACV	Set resolution factor vertical (to add a margin)	RFACV [factor]	[float]	ASAS.SetResoFacV of bluesky.traf.asas.asas.ASAS object
RMETHH	Set resolution method to be used horizontally	RMETHH [method]	[txt]	ASAS.SetResoHoriz of bluesky.traf.asas.asas.ASAS object
RMETHV	Set resolution method to be used vertically	RMETHV [method]	[txt]	ASAS.SetResoVert of bluesky.traf.asas.asas.ASAS object
RSZONEDH	Set half of vertical dimension of resolution zone in ft	RSZONEDH [height]	[float]	ASAS.SetPZHm of bluesky.traf.asas.asas.ASAS object
RSZONER	Set horizontal radius of resolution zone in nm	RSZONER [radius]	[float]	ASAS.SetPZRm of bluesky.traf.asas.asas.ASAS object
RUNWAYS	List available runways on an airport	RUNWAYS ICAO	txt	
SAVEIC	Save current situation as IC	SAVEIC filename	string	
SCEN	Give current situation a scenario name	SCEN scenname	string	function scenarioinit
SEED	Set seed for all functions using a randomizer (e.g.mcre,noise)	SEED value	int	function setSeed
SKYLOG	SKYLOG data logging on	SKYLOG ON/OFF,[dt] or LISTVARS or SELECTVARS var1,...,varn	[txt,float/txt,...]	CSVLogger.stackio of bluesky.tools.datalog.CSVLogger instance
SNAPLOG	SNAPLOG data logging on	SNAPLOG ON/OFF,[dt] or LISTVARS or SELECTVARS var1,...,varn	[txt,float/txt,...]	CSVLogger.stackio of bluesky.tools.datalog.CSVLogger instance
SPD	Speed command (autopilot)	SPD acid,spd (CAS-kts/Mach)	acid,spd	Autopilot.selspd of bluesky.traf.autopilot.Autopilot object
SSD	Show state-space diagram (=conflict prevention display/predictive ASAS)	SSD acid/ALL/OFF	txt	ScreenIO.showssd of bluesky.sim.qtgl.screenio.ScreenIO object
SWRAD	Switch on/off elements and background of map/radar view	SWRAD GEO/GRID/APT/VOR/WPT/LABEL/ADSBCOVERAGE/TRAIL [dt]/[value]	txt,[float]	ScreenIO.feature of bluesky.sim.qtgl.screenio.ScreenIO object
SYMBOL	Toggle aircraft symbol	SYMBOL		ScreenIO.symbol of bluesky.sim.qtgl.screenio.ScreenIO object
SYN	Macro for generating synthetic (geometric) traffic scenarios	SYN: Possible subcommands: HELP, SIMPLE, SIMPLED, DIFG, SUPER,MATRIX, FLOOR, TAKEOVER, WALL, ROW, COLUMN, DISP	txt,[...]	
TAXI	Switch on/off ground/low altitude mode, prevents auto-delete at 1500 ft	TAXI ON/OFF : OFF auto deletes traffic below 1500 ft	onoff	Area.setTaxi of bluesky.traf.area.Area instance
TIME	Set simulated clock time	TIME RUN(default) / HH:MM:SS.hh / REAL / UTC	[txt]	Simulation.setclock of bluesky.sim.qtgl.simulation.Simulation object
TRAIL	Toggle aircraft trails on/off	TRAIL ON/OFF, [dt] OR TRAIL acid color	acid/bool,[float/txt]	Trails.setTrails of bluesky.traf.trails.Trails object
VNAV	Switch on/off VNAV mode, the vertical FMS mode (autopilot)	VNAV acid,[ON/OFF]	acid,[onoff]	Autopilot.setVNAV of bluesky.traf.autopilot.Autopilot object
VS	Vertical speed command (autopilot)	VS acid,vspd (ft/min)	acid,vspd	Autopilot.selvspd of bluesky.traf.autopilot.Autopilot object
WIND	Define a wind vector as part of the 2D or 3D wind field	WIND lat,lon,alt/*,dir,spd,[alt,dir,spd,alt,...]	latlon,[alt],float,float,...,...,...	WindSim.add of bluesky.traf.windsim.WindSim instance
ZONEDH	Set half of the vertical protected zone dimensions in ft	ZONEDH [height]	[float]	ASAS.SetPZH of bluesky.traf.asas.asas.ASAS object
ZONER	Set the radius of the horizontal protected zone dimensions in nm	ZONER [radius]	[float]	ASAS.SetPZR of bluesky.traf.asas.asas.ASAS object
ZOOM	Zoom display in/out, you can also use +++ or -----	ZOOM IN/OUT or factor	float/txt	

Synonyms (equivalent commands)		
?	HELP	Show help on a command, show pdf or write list of commands to file
CLOSE	QUIT	Quit program/Stop simulation
CONTINUE	OP	Start/Run simulation or continue after pause
CREATE	CRE	Create an aircraft
DELETE	DEL	Delete command (aircraft, wind, area)
DIRECTTO	DIRECT	Go direct to specified waypoint in route (FMS)
DIRTO	DIRECT	Go direct to specified waypoint in route (FMS)
DISP	SWRAD	Switch on/off elements and background of map/radar view
END	QUIT	Quit program/Stop simulation
EXIT	QUIT	Quit program/Stop simulation
FWD	FF	Fast forward the simulation
HEADING	HDG	Heading command (autopilot)
HMETH	RMETHH	Set resolution method to be used horizontally
HRESOM	RMETHH	Set resolution method to be used horizontally
HRESOMETH	RMETHH	Set resolution method to be used horizontally
LOAD	IC	Initial condition: (re)start simulation and open scenario file
OPEN	IC	Initial condition: (re)start simulation and open scenario file
PAUSE	HOLD	Pause(hold) simulation
Q	QUIT	Quit program/Stop simulation

RESOFACH	RFACH	Set resolution factor horizontal (to add a margin)
RESOFACV	RFACV	Set resolution factor vertical (to add a margin)
RUN	OP	Start/Run simulation or continue after pause
SAVE	SAVEIC	Save current situation as IC
SPEED	SPD	Speed command (autopilot)
START	OP	Start/Run simulation or continue after pause
STOP	QUIT	Quit program/Stop simulation
TURN	HDG	Heading command (autopilot)
VMETH	RMETHV	Set resolution method to be used vertically
VRESOM	RMETHV	Set resolution method to be used vertically
VRESOMETH	RMETHV	Set resolution method to be used vertically