



Flight Utilities

<http://www.flightutilities.com>

Flight Plan File Format

version 3.7

by Umberto Degli Esposti



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Description

Files have extension .fpl.

The file have several fields. Fields are separated by hexadecimal characters 0D 0A.

The file have two sections, header sections and waypoints sections.

Follow the description for each section.

Header section

The header have the follows fields:

- Product version (example: 3.7)
- Flight plan ID (max 3 char)
- Flight plan title (max 30 char)
- Flight plan rules for ICAO flight plan form (I – V –Y –Z)
- Flight plan type for ICAO flight plan form (S –N –G –M -X)
- Pilot
- Departure airport
- Departure country
- Arrival airport
- Arrival country
- Number of row description
 - row description. Iterated as indicated from the previous item.
- Liters per hour
- Magnetic declination
- Automatic magnetic declination flag (“y” or “n”)
- Flight plan date (yyymmdd or “AutomaticFlightDate”)
- Waypoints total number

Waypoints section

The route will be created follow the waypoints sequence.

Each waypoint have the follows fields:

- Waypoint ID (max 30 char)
- Waypoint description (max 40 char)
- Latitude degrees
- Latitude minutes
- Latitude seconds
- Latitude Hemisphere (N or S)
- Longitude degrees
- Longitude minutes
- Longitude seconds
- Longitude Hemisphere (E or W)
- Flight altitude in feet



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- Terrain altitude in feet
- Speed in Km/h
- Wind speed (KT)
- Wind direction (degrees)
- Wind direction type (0 = true, 1 = magnetic)
- Icon code (see the follow table)

(0) Marina	(35) White Dot	(70) City (Medium)	(105) Forest
(1) Bell	(36) Radio Beacon	(71) City (Large)	(106) Summit
(2) Green Diamond	(37) Boat Ramp	(72) City (Capitol)	(107) Airport
(3) Red Diamond	(38) Campground	(73) Amusement Park	(108) Helipoint
(4) Diver Down Flag 1	(39) Restroom	(74) Bowling	(109) Private Field
(5) Diver Down Flag 2	(40) Shower	(75) Car Rental	(110) Soft Field
(6) Bank	(41) Drinking Water	(76) Car Repair	(111) Tall Tower
(7) Fishing Area	(42) Telephone	(77) Fast Food	(112) Short Tower
(8) Gas Station	(43) Medical Facility	(78) Fitness Center	(113) Glider Area
(9) Horn	(44) Information	(79) Movie Theater	(114) Ultralight Area
(10) Residence	(45) Parking Area	(80) Museum	(115) Parachute Area
(11) Restaurant	(46) Park	(81) Pharmacy	(116) Seaplane Base
(12) Light	(47) Picnic Area	(82) Pizza	(117) Geocache
(13) Bar	(48) Scenic Area	(83) Post Office	(118) Geocache Found
(14) Skull and Crossbones	(49) Skiing Area	(84) RV Park	
(15) Green Square	(50) Swimming Area	(85) School	
(16) Red Square	(51) Dam	(86) Stadium	
(17) White Buoy	(52) Controlled Area	(87) Department Store	
(18) Waypoint	(53) Danger Area	(88) Zoo	
(19) Shipwreck	(54) Restricted Area	(89) Convenience Store	
(20) Man Overboard	(55) Ball Park	(90) Live Theater	
(21) Navaid, Amber	(56) Car	(91) Scales	
(22) Navaid, Black	(57) Hunting Area	(92) Toll Booth	
(23) Navaid, Blue	(58) Shopping Center	(93) Bridge	
(24) Navaid, Green	(59) Lodging	(94) Building	
(25) Navaid, Green/Red	(60) Mine	(95) Cemetery	
(26) Navaid, Green/White	(61) Trail Head	(96) Church	
(27) Navaid, Orange	(62) Truck Stop	(97) Civil	
(28) Navaid, Red	(63) Exit	(98) Crossing	
(29) Navaid, Red/Green	(64) Flag	(99) Ghost Town	
(30) Navaid, Red/White	(65) Circle with X	(100) Levee	
(31) Navaid, Violet	(66) Mile Marker	(101) Military	
(32) Navaid, White	(67) TracBack Point	(102) Oil Field	
(33) Navaid, White/Green	(68) Golf Course	(103) Tunnel	
(34) Navaid, White/Red	(69) City (Small)	(104) Beach	

Happy flying!