

**FEDERAL AVIATION ADMINISTRATION (FAA)
MISSION SUPPORT SERVICES
AERONAUTICAL INFORMATION SERVICES**

DAILY DIGITAL OBSTACLE FILE (DDOF)

Effective September 22, 2016

CAUTION

The Daily Digital Obstacle File contains only obstruction data for those man-made objects that affect domestic aeronautical charting products and does not purport to indicate the presence of all obstructions that may be encountered.

NOTE

In the interest of air safety, the Daily Digital Obstacle File depicts both "verified" and "unverified" obstruction data. A verified obstruction is indicated by an "O" in the Verification Status field. This data has been reviewed by the FAA's Aeronautical Information Services (AIS), Obstacle Data Team (ODT) and most have been assigned an accuracy code, indicating the reliability of its vertical height and horizontal position. An unverified obstruction is indicated by a "U" in the Verification Status field. This data is considered unreliable because its position and height have not been verified by the ODT.

Be cautious when using unverified data.

DAILY DIGITAL OBSTACLE FILE

FOREWORD

The Daily Digital Obstacle File (DDOF) is a listing of verified and unverified obstacles in the U.S. with limited coverage of the Pacific, the Caribbean, Canada, Mexico, and the Bahamas. The obstacles are assigned unique alphanumeric identifiers and are listed in order by ascending latitude within each state or country.

The Daily Change File is a listing of all DOF changes and is also updated daily. This file is ordered by ascending file number. The file formats are included on the following pages.

When opening this file, please use Wordpad, Internet Explorer, or Mozilla Firefox. You may also use Notepad, but the lack of column formatting is harder to read.

SPECIAL NOTICE

Important Information on the Horizontal Datum

The World Geodetic System 1984 (WGS 84) is used as the horizontal datum for all DDOF data. All obstacle data has been converted to WGS 84 as of November 19, 2007.

ORS NUMBER

All obstacles are assigned a unique number based on state or country. The ORS_NUMBER consists of a two-digit code, a dash, and a six-character number.

FORMAT FOR DATA IN THE DAILY DIGITAL OBSTACLE FILE

The following pages describe the format for headers and data in the Daily Digital Obstacle File.

THE DDOF FORMAT

The currency date header appears on line 1, in columns 3-26. Lines 2 and 3 are column headers for the obstacle detail lines. Line 4 contains 121 "-" characters.

The data for each obstacle is in the following format:

Column	Data Element	Description
----- 1-2	----- ORS Code	----- State 01 - Alabama 02 - Alaska 04 - Arizona 05 - Arkansas 06 - California 08 - Colorado 09 - Connecticut 10 - Delaware 11 - DC 12 - Florida 13 - Georgia 15 - Hawaii 16 - Idaho 17 - Illinois 18 - Indiana 19 - Iowa 20 - Kansas 21 - Kentucky 22 - Louisiana 23 - Maine 24 - Maryland 25 - Massachusetts 26 - Michigan 27 - Minnesota 28 - Mississippi 29 - Missouri 30 - Montana 31 - Nebraska 32 - Nevada

33 - New Hampshire
34 - New Jersey
35 - New Mexico
36 - New York
37 - North Carolina
38 - North Dakota
39 - Ohio
40 - Oklahoma
41 - Oregon
42 - Pennsylvania
44 - Rhode Island
45 - South Carolina
46 - South Dakota
47 - Tennessee
48 - Texas
49 - Utah
50 - Vermont
51 - Virginia
53 - Washington
54 - West Virginia
55 - Wisconsin
56 - Wyoming

North America

CA - Canada
MX - Mexico
PR - Puerto Rico
BS - Bahamas

Caribbean Area

AG - Antigua and Barbuda
AI - Anguilla
AN - Netherlands Antilles
AW - Aruba
CU - Cuba
DM - Dominica
DO - Dominican Republic
GP - Guadeloupe
HN - Honduras
HT - Haiti
JM - Jamaica
KN - St. Kitts and Nevis
KY - Cayman Islands
LC - Saint Lucia
MQ - Martinique
MS - Montserrat
TC - Turks and Caicos Islands
VG - British Virgin Islands
VI - Virgin Islands

Pacific Area

- AS - American Samoa
- FM - Federated States of Micronesia
- GU - Guam
- KI - Kiribati
- MH - Marshall Islands
- MI - Midway Islands
- MP - Northern Mariana Islands
- PW - Palau
- RU - Russia
- TK - Tokelau
- WQ - Wake Island
- WS - Samoa

Column	Data Element	Description
3	"-"	
4-9	Obstacle Number	Identifier of obstacle
10	Blank	
11	"O" or "U"	Verification Status "O": verified "U": unverified
12	Blank	
13-14	Country Identifier	
15	Blank	
16-17	State Identifier	State
18	Blank	
19-34	City Name	City
35	Blank	
36-37	Latitude Degrees	Geographical Coordinates
38	Blank	
39-40	Latitude Minutes	"
41	Blank	

42-46	Latitude Seconds	"
47	Latitude Hemisphere	"
48	Blank	
49-51	Longitude Degrees	"
52	Blank	
53-54	Longitude Minutes	"
55	Blank	
56-60	Longitude Seconds	"
61	Longitude Hemisphere	"
62	Blank	
63-74	Obstacle Type	
75	Blank	
76	Quantity	
77	Blank	
78-82	AGL HT	Above Ground Level Height (Feet)
83	Blank	
84-88	AMSL HT	Above Mean Sea Level Height (Feet)
89	Blank	
90	Lighting	Type of Lighting

"R": Red
 "D": Medium intensity White Strobe & Red
 "H": High Intensity White Strobe & Red
 "M": Medium Intensity White Strobe
 "S" : High Intensity White Strobe
 "F": Flood
 "C": Dual Medium Catenary
 "W": Synchronized Red Lighting
 "L": Lighted (Type Unknown)
 "N": None
 "U": Unknown

- 91 Blank
- 92 Horizontal Accuracy
- 93 Blank
- 94 Vertical Accuracy

HORIZONTAL		VERTICAL	
Code	Tolerance	Code	Tolerance
1	+/-20'	A	+/-3'
2	+/-50'	B	+/-10'
3	+/-100'	C	+/-20'
4	+/-250'	D	+/-50'
5	+/-500'	E	+/-125'
6	+/-1000'	F	+/-250'
7	+/-1/2 NM	G	+/-500'
8	+/-1 NM	H	+/-1000'
9	Unknown	I	Unknown

95 Blank

96 Mark Indicator Type of Marking

"P": Orange or Orange and White Paint
"W": White Paint Only
"M": Marked
"F": Flag Marker
"S": Spherical Marker
"N": None
"U": Unknown

97 Blank

98-111 FAA Study Number

112 Blank

113 Action: A, C, D, Add, Change, Dismantle

114 Blank

115-121 Julian Date Date of Action

THE DAILY CHANGE FILE FORMAT

Lines 1 – 3 are header lines.

Line 4 and 5 are column headers for the detail lines. Line 6 contains 130 “-“ characters.

The data for each change is in the following format:

Column	Data Element	Description
-----	-----	-----
1-9	Action	DISMANTLE, OLD, NEW, ADD, REMOVE
10	Blank	
11-12	ORS Code	(See DOF Format)
13	"_"	
14-19	Obstacle Number	"
20	Blank	
21	"O" or "U"	"
22	Blank	
23-24	Country Identifier	
25	Blank	
26-27	State Identifier	
28	Blank	
29-44	City Name	"
45	Blank	
46-47	Latitude Degrees	"
48	Blank	
49-50	Latitude Minutes	"
51	Blank	
52-56	Latitude Seconds	"
57	Latitude Hemisphere	"

58	Blank	
59-61	Longitude Degrees	"
62	Blank	
63-64	Longitude Minutes	"
65	Blank	
66-70	Longitude Seconds	"
71	Longitude Hemisphere	"
72	Blank	
73-84	Obstacle Type	"
85	Blank	
86	Quantity	"
87	Blank	
88-92	AGL HT	"
93	Blank	
94-98	AMSL HT	"
99	Blank	
100	Lighting	"
101	Blank	
102	Horizontal Accuracy	"
103	Blank	
104	Vertical Accuracy	"
105	Blank	
106	Mark Indicator	"
107	Blank	
108-121	FAA Study Number	"

122 Blank

123 Action: A, C, D, R Add, Change, Dismantle, Remove

124-130 Julian Date Date of Action