

Worldwide Soaring Turnpoint Exchange

Official Coordinates for the Musbach, Germany Control Points

Contest: Musbach SGP 2016

Courtesy of Axel Reich (axel@foto-reich.de)

Dated: 10 June 2016

Magnetic Variation: 1.3E

Time zone: MET, Summer offset from GMT is 2:00 and in Winter it is 1:00.

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USE AT YOUR OWN RISK

Do not use for navigation, for flight verification only.

Always consult the relevant publications for current and correct information.

This service is provided free of charge with no warranties, expressed or implied.

User assumes all risk of use.

<i>Number</i>	<i>Name</i>	<i>Latitude</i> ° , ' , ''	<i>Longitude</i> ° , ' , ''	<i>Latitude</i> ° , ' , ''	<i>Longitude</i> ° , ' , ''	<i>Elevation</i> Meters	<i>Codes</i> [*]	<i>Description</i>	<i>Comment</i>	<i>Distance</i> Km	<i>Bearing</i>
1	GP Start-Finish	48 30 14 N	8 28 47 E	48 30,233 N	8 28,783 E	700	SFHA				
2	<i>Freudenstadt</i>	48 27 49 N	8 24 40 E	48 27,817 N	8 24,667 E	726	ST	startpoint 2 and waypoint	market square - Venus	6,8	230
3	<i>Erzgrube</i>	48 33 45 N	8 30 04 E	48 33,750 N	8 30,067 E	546	ST	startpoint 3 and waypoint	barrier lake	6,7	15
4	<i>Lossburg</i>	48 24 24 N	8 27 17 E	48 24,400 N	8 27,283 E	679	ST	startpoint 4 and waypoint	factory	11	191
5	Checkpoint East	48 26 46 N	8 30 03 E	48 26,767 N	8 30,050 E	610	T	Glatten, checkpoint for approach	(near) factory	6,6	168
6	Checkpoint West	48 26 41 N	8 28 07 E	48 26,683 N	8 28,117 E	604	T	Lautermühle, checkpoint for approach	sawmill	6,6	188
7	Alpirsbach	48 20 47 N	8 24 16 E	48 20,783 N	8 24,267 E	444	T		church	18	199
8	Altensteig	48 35 11 N	8 36 18 E	48 35,183 N	8 36,300 E	500	T		church	13	46
9	Amorbach	49 38 45 N	9 13 18 E	49 38,750 N	9 13,300 E	164	T		train station	138	24
10	Bad Buchau	48 03 17 N	9 38 21 E	48 03,283 N	9 38,350 E	579	TA		airfield	99	121
11	Bad Dürkheim	49 27 38 N	8 10 14 E	49 27,633 N	8 10,233 E	132	T		train station	109	349
12	Bad Liebenzell	48 46 37 N	8 43 34 E	48 46,617 N	8 43,567 E	474	T		castle	35	32
13	Bad Mergentheim	49 30 27 N	9 47 07 E	49 30,450 N	9 47,117 E	357	T		antenna	147	41
14	Bad Teinach	48 41 32 N	8 41 28 E	48 41,533 N	8 41,467 E	580	T		ruin	26	38
15	Bartholomä	48 44 47 N	10 00 15 E	48 44,783 N	10 00,250 E	640	TA		airfield	115	77

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16 Bernau	47 48 05 N	8 02 12 E	47 48,083 N	8 02,200 E	914 T		church	85	204
17 Besenfeld	48 35 38 N	8 25 10 E	48 35,633 N	8 25,167 E	782 T		church	11	337
18 Beuron	48 03 04 N	8 58 07 E	48 03,067 N	8 58,117 E	621 T		church	62	145
19 Bonndorf	47 49 10 N	8 20 15 E	47 49,167 N	8 20,250 E	870 T		church	77	189
20 Bretten	49 02 13 N	8 41 35 E	49 02,217 N	8 41,583 E	171 T		train station	61	16
21 Buchen	49 31 24 N	9 19 39 E	49 31,400 N	9 19,650 E	346 T		train station	129	30
22 Burladingen	48 17 24 N	9 06 46 E	48 17,400 N	9 06,767 E	721 T		train station	52	118
23 Crailsheim	49 08 18 N	10 03 49 E	49 08,300 N	10 03,817 E	407 T		train station	136	59
24 Dobel	48 47 41 N	8 29 25 E	48 47,683 N	8 29,417 E	725 T		look-out	32	3
25 Dollnstein	48 52 16 N	11 04 45 E	48 52,267 N	11 04,750 E	408 T		train station	195	78
26 Donaueschingen	47 58 25 N	8 31 19 E	47 58,417 N	8 31,317 E	682 TA		airfield	59	178
27 Dreifaltigkeitsberg	48 04 53 N	8 45 46 E	48 04,883 N	8 45,767 E	965 T		church	51	157
28 Dunningen	48 12 46 N	8 30 06 E	48 12,767 N	8 30,100 E	669 T		village	32	178
29 Eberbach	49 27 55 N	8 59 03 E	49 27,917 N	8 59,050 E	136 T		train station	113	20
30 Ehingen	48 17 09 N	9 43 27 E	48 17,150 N	9 43,450 E	514 T		train station	95	106
31 Eichstätt	48 52 37 N	11 10 53 E	48 52,617 N	11 10,883 E	520 TA		airfield	203	78
32 Ellwangen	48 57 51 N	10 07 47 E	48 57,850 N	10 07,783 E	452 T		church	131	68
33 Enzklosterle	48 40 04 N	8 28 19 E	48 40,067 N	8 28,317 E	601 T		church	18	360
34 Eutingen	48 29 08 N	8 46 42 E	48 29,133 N	8 46,700 E	499 TA		airfield	22	96
35 Farrenberg	48 23 08 N	9 05 01 E	48 23,133 N	9 05,017 E	789 TA		airfield	46	108
36 Feuchtwangen	49 12 11 N	10 14 02 E	49 12,183 N	10 14,033 E	463 T		motorway crossing	150	59
37 Fürstenberg	47 53 17 N	8 34 36 E	47 53,283 N	8 34,600 E	910 T		antenna	69	175
38 Gaildorf	48 59 48 N	9 46 08 E	48 59,800 N	9 46,133 E	345 T		train station	109	61
39 Gammertingen	48 15 01 N	9 13 03 E	48 15,017 N	9 13,050 E	678 T		train station	61	118
40 Geisingen	47 55 19 N	8 39 41 E	47 55,317 N	8 39,683 E	673 T		cement factory	66	169
41 Geislingen	48 37 11 N	9 50 29 E	48 37,183 N	9 50,483 E	466 T		train station	101	83
42 Gerchsheim	49 43 33 N	9 49 32 E	49 43,550 N	9 49,533 E	358 T		motorway exit	167	37
43 Giengen	48 38 02 N	10 12 59 E	48 38,033 N	10 12,983 E	517 TA		airfield	129	84
44 Glerns	48 29 42 N	9 17 55 E	48 29,700 N	9 17,917 E	755 T		barrier lake	60	92
45 Grabenstetten	48 32 00 N	9 26 37 E	48 32,000 N	9 26,617 E	694 TA		airfield	71	88
46 Grafeneck	48 23 33 N	9 25 47 E	48 23,550 N	9 25,783 E	685 T		castle	71	101
47 Grosserlach	49 02 12 N	9 33 01 E	49 02,200 N	9 33,017 E	586 T		antenna	98	54
48 Güglingen	49 02 04 N	8 59 52 E	49 02,067 N	8 59,867 E	470 T		antenna	70	34
49 Gundelsheim	49 17 12 N	9 09 29 E	49 17,200 N	9 09,483 E	170 T		castle	100	31
50 Haigerloch	48 22 02 N	8 48 15 E	48 22,033 N	8 48,250 E	446 T		castle	28	124
51 Haiterbach	48 31 50 N	8 40 46 E	48 31,833 N	8 40,767 E	603 TA		airfield	15	80
52 Harburg	48 46 45 N	10 41 57 E	48 46,750 N	10 41,950 E	412 T		cement factory	166	80
53 Hardheim	49 36 09 N	9 28 17 E	49 36,150 N	9 28,283 E	271 T		train station	142	32
54 Hassloch Pfalz	49 21 18 N	8 17 13 E	49 21,300 N	8 17,217 E	108 TA		airfield	96	353
55 Hesselberg	49 04 07 N	10 31 32 E	49 04,117 N	10 31,533 E	680 T		antenna	162	68
56 Hohenstadt	48 32 50 N	9 38 31 E	48 32,833 N	9 38,517 E	760 T		motorway tunnel	86	88

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57	Hohenzollern	48 19 25 N	8 58 00 E	48 19,417 N	8 58,000 E	817 T		castle	41	120
58	Horb	48 26 30 N	8 41 19 E	48 26,500 N	8 41,317 E	393 T		train station	17	115
59	Ibach	47 44 03 N	8 04 05 E	47 44,050 N	8 04,083 E	942 T		church	91	201
60	Karlstadt	49 57 10 N	9 46 12 E	49 57,167 N	9 46,200 E	165 T		cement factory	186	31
61	Kirnbergsee	47 55 46 N	8 22 19 E	47 55,767 N	8 22,317 E	779 T		barrier lake	64	188
62	Kleine Kinzig	48 23 53 N	8 21 59 E	48 23,883 N	8 21,983 E	549 T		barrier lake	14	217
63	Landau	49 11 54 N	8 07 34 E	49 11,900 N	8 07,567 E	138 T		train station	81	343
64	Langenbrand	48 48 28 N	8 37 27 E	48 48,467 N	8 37,450 E	705 T		antenna	35	19
65	Lichtenstein	48 24 26 N	9 12 36 E	48 24,433 N	9 12,600 E	780 T		castle	55	102
66	Mergelstetten	48 39 17 N	10 09 44 E	48 39,283 N	10 09,733 E	489 T		cement factory	125	83
67	Merklingen	48 31 06 N	9 45 28 E	48 31,100 N	9 45,467 E	699 T		motorway exit	94	90
68	Messkirch	48 01 15 N	9 07 08 E	48 01,250 N	9 07,133 E	650 T		antenna	72	140
69	Michelstadt	49 40 41 N	8 58 25 E	49 40,683 N	8 58,417 E	340 TA		airfield	135	17
70	Monheim	48 50 31 N	10 51 07 E	48 50,517 N	10 51,117 E	509 T		train station	178	78
71	Mosbach Lohrbach	49 23 50 N	9 07 20 E	49 23,833 N	9 07,333 E	327 TA		airfield	110	26
72	Mudau	49 33 33 N	9 10 51 E	49 33,550 N	9 10,850 E	502 T		antenna	128	25
73	Mühlacker	48 56 27 N	8 51 10 E	48 56,450 N	8 51,167 E	307 T		antenna	56	31
74	Neresheim	48 45 20 N	10 20 36 E	48 45,333 N	10 20,600 E	577 T		church	140	79
75	Neustadt	47 53 59 N	8 14 28 E	47 53,983 N	8 14,467 E	900 T		bridge	69	196
76	Neuweiler	48 39 26 N	8 35 50 E	48 39,433 N	8 35,833 E	651 T		church	19	28
77	Oberflingen	48 25 12 N	8 33 36 E	48 25,200 N	8 33,600 E	687 T		water tower	11	149
78	Oberkochen	48 46 56 N	10 06 23 E	48 46,933 N	10 06,383 E	491 T		train station	123	76
79	Oberndorf	48 17 48 N	8 34 31 E	48 17,800 N	8 34,517 E	468 T		train station	24	164
80	Osterburken	49 24 29 N	9 28 22 E	49 24,483 N	9 28,367 E	361 T		motorway exit	124	37
81	Pforzheim	48 54 28 N	8 39 16 E	48 54,467 N	8 39,267 E	365 T		motorway exit	47	17
82	Pfullendorf	47 54 33 N	9 15 03 E	47 54,550 N	9 15,050 E	701 TA		airfield	87	140
83	Plettenberg	48 13 34 N	8 49 05 E	48 13,567 N	8 49,083 E	988 T		antenna	40	142
84	Rauhe Wanne	48 45 58 N	10 30 26 E	48 45,967 N	10 30,433 E	610 T		antenna	152	79
85	Rothenburg	49 23 16 N	10 13 04 E	49 23,267 N	10 13,067 E	400 TA		airfield	161	53
86	Rottweil	48 09 54 N	8 38 22 E	48 09,900 N	8 38,367 E	563 T		train station	39	164
87	Schelklingen	48 22 12 N	9 44 05 E	48 22,200 N	9 44,083 E	537 T		cement factory	94	100
88	Schiltach	48 17 28 N	8 20 04 E	48 17,467 N	8 20,067 E	364 T		train station	26	206
89	Schluchsee	47 48 02 N	8 11 01 E	47 48,033 N	8 11,017 E	931 T		barrier lake	81	197
90	Sigmaringen	48 05 16 N	9 12 58 E	48 05,267 N	9 12,967 E	570 T		castle	71	131
91	Sinsheim	49 15 01 N	8 52 30 E	49 15,017 N	8 52,500 E	158 T		train station	88	20
92	Speyer	49 19 05 N	8 26 12 E	49 19,083 N	8 26,200 E	99 T		church	91	359
93	St. Blasien	47 45 36 N	8 07 48 E	47 45,600 N	8 07,800 E	771 T		basilica	87	199
94	St. Georgen	48 07 26 N	8 20 30 E	48 07,433 N	8 20,500 E	811 T		train station	43	195
95	Sulz	48 22 01 N	8 38 14 E	48 22,017 N	8 38,233 E	430 T		train station	19	144
96	Tannheim	48 00 35 N	10 05 57 E	48 00,583 N	10 05,950 E	578 TA		airfield	132	115
97	Tauberbischofsheim	49 37 25 N	9 39 30 E	49 37,417 N	9 39,500 E	186 TA		airfield	151	35

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98 Titisee	47 54 10 N	8 09 18 E	47 54,167 N	8 09,300 E	864 TA		train station	71	201
99 Tuttlingen	47 59 04 N	8 49 07 E	47 59,067 N	8 49,117 E	646 T		city center	63	158
100 Ulm Ermingen	48 23 26 N	9 53 43 E	48 23,433 N	9 53,717 E	639 T		antenna	105	98
101 Ulm West	48 27 24 N	9 57 40 E	48 27,400 N	9 57,667 E	592 T		motorway crossing	109	93
102 Villingen	48 03 27 N	8 27 55 E	48 03,450 N	8 27,917 E	705 T		train station	50	183
103 Vöhrenbach	48 02 42 N	8 18 14 E	48 02,700 N	8 18,233 E	808 T		church	53	196
104 Waldenburg	49 11 00 N	9 37 36 E	49 11,000 N	9 37,600 E	495 T		antenna	113	49
105 Walldorf	49 16 52 N	8 37 14 E	49 16,867 N	8 37,233 E	106 T		motorway crossing	87	8
106 Weidenstetten	48 33 08 N	9 59 46 E	48 33,133 N	9 59,767 E	587 T		village	112	88
107 Weinsberg	49 09 26 N	9 17 58 E	49 09,433 N	9 17,967 E	185 T		motorway crossing	94	41
108 Weissenhorn	48 17 21 N	10 08 21 E	48 17,350 N	10 08,350 E	502 TA		airfield	125	102
109 Wertheim	49 45 42 N	9 30 45 E	49 45,700 N	9 30,750 E	145 T		train station	159	29
110 Wiesental	49 13 50 N	8 29 51 E	49 13,833 N	8 29,850 E	104 T		antenna	81	2
111 Wildbad	48 45 19 N	8 33 04 E	48 45,317 N	8 33,067 E	430 T		train station	28	12
112 Wildberg	48 38 15 N	8 43 51 E	48 38,250 N	8 43,850 E	495 TA		airfield	24	52
113 Winzeln - Schramberg	48 16 50 N	8 25 43 E	48 16,833 N	8 25,717 E	677 TA		airfield	25	190
114 Zwiefalten	48 13 57 N	9 27 42 E	48 13,950 N	9 27,700 E	545 T		church	79	114
115 <i>Musbach 35 Threshold</i>	48 29 53 N	8 28 49 E	48 29,883 N	8 28,817 E	691 FA	Not for SGP	airfield	0,6	178

Codes*

- A: Airport
- F: Finish Point
- H: Home airport
- S: Start Point
- T: Turnpoint