

 FLIGHT PLANNING GROUND DISTANCE/AIR DISTANCE	2.05.60 P 1	
	SEQ 001	REV 10

GENERAL

The ground distance/air distance conversion tables show the air distance for a given ground distance due to influence of the wind.

Tables are given for:

- M.80
- M.82
- M.84
- Long range cruise
below FL250
above FL250.

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M.80

GROUND DIST. (NM)	AIR DISTANCE (NM)						
	TAIL WIND		WIND COMPONENTS (KT)			HEAD WIND	
	+150	+100	+ 50	0	-50	-100	-150
10	8	8	9	10	11	13	15
20	15	16	18	20	22	26	30
30	23	25	27	30	34	38	44
40	30	33	36	40	45	51	59
50	38	41	45	50	56	64	74
100	75	82	90	100	112	128	148
200	151	164	180	200	224	255	296
300	226	247	271	300	336	383	445
400	302	329	361	400	449	511	593
500	377	411	451	500	561	638	741
1000	755	822	902	1000	1122	1277	1482
1500	1132	1233	1353	1500	1682	1915	2223
2000	1509	1644	1804	2000	2243	2554	2964
2500	1886	2054	2255	2500	2804	3192	3705
3000	2264	2465	2707	3000	3365	3831	4446
3500	2641	2876	3158	3500	3926	4469	5187
4000	3018	3287	3609	4000	4486	5108	5928
4500	3395	3698	4060	4500	5047	5746	6669
5000	3773	4109	4511	5000	5608	6385	7411
5500	4150	4520	4962	5500	6169	7023	8152
6000	4527	4931	5413	6000	6730	7661	8893
6500	4905	5342	5864	6500	7290	8300	9634
7000	5282	5753	6315	7000	7851	8938	10375
7500	5659	6163	6766	7500	8412	9577	11116
8000	6036	6574	7217	8000	8973	10215	11857
8500	6414	6985	7669	8500	9534	10854	12598
9000	6791	7396	8120	9000	10095	11492	13339
9500	7168	7807	8571	9500	10655	12131	14080
10000	7546	8218	9022	10000	11216	12769	14821

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M.82

GROUND DIST (NM)	AIR DISTANCE (NM)						
	TAIL WIND		WIND COMPONENT (KT)			HEAD WIND	
	+150	+100	+ 50	0	-50	-100	-150
10	8	8	9	10	11	13	15
20	15	17	18	20	22	25	29
30	23	25	27	30	34	38	44
40	30	33	36	40	45	51	59
50	38	41	45	50	56	63	73
100	76	83	90	100	112	127	146
200	152	165	181	200	224	254	293
300	228	248	271	300	335	381	439
400	304	330	362	400	447	507	586
500	380	413	452	500	559	634	732
1000	759	825	904	1000	1118	1268	1465
1500	1139	1238	1357	1500	1677	1903	2197
2000	1518	1651	1809	2000	2237	2537	2930
2500	1898	2063	2261	2500	2796	3171	3662
3000	2277	2476	2713	3000	3355	3805	4395
3500	2657	2889	3165	3500	3914	4439	5127
4000	3036	3302	3617	4000	4473	5073	5860
4500	3416	3714	4070	4500	5032	5708	6592
5000	3795	4127	4522	5000	5591	6342	7324
5500	4175	4540	4974	5500	6151	6976	8057
6000	4555	4952	5426	6000	6710	7610	8789
6500	4934	5365	5878	6500	7269	8244	9522
7000	5314	5778	6330	7000	7828	8878	10254
7500	5693	6190	6783	7500	8387	9513	10987
8000	6073	6603	7235	8000	8946	10147	11719
8500	6452	7016	7687	8500	9506	10781	12451
9000	6832	7428	8139	9000	10065	11415	13184
9500	7211	7841	8591	9500	10624	12049	13916
10000	7591	8254	9043	10000	11183	12683	14649

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M.84

GROUND DIST (NM)	AIR DISTANCE (NM)						
	TAIL WIND		WIND COMPONENT (KT)			HEAD WIND	
	+150	+100	+ 50	0	-50	-100	-150
10	8	8	9	10	11	13	14
20	15	17	18	20	22	25	29
30	23	25	27	30	33	38	43
40	31	33	36	40	45	50	58
50	38	41	45	50	56	63	72
100	76	83	91	100	112	126	145
200	153	166	181	200	223	252	290
300	229	249	272	300	335	378	435
400	305	332	363	400	446	504	580
500	382	414	453	500	558	630	724
1000	763	829	906	1000	1115	1260	1449
1500	1145	1243	1360	1500	1673	1890	2173
2000	1527	1658	1813	2000	2230	2521	2898
2500	1909	2072	2266	2500	2788	3151	3622
3000	2290	2486	2719	3000	3345	3781	4347
3500	2672	2901	3172	3500	3903	4411	5071
4000	3054	3315	3626	4000	4461	5041	5795
4500	3436	3730	4079	4500	5018	5671	6520
5000	3817	4144	4532	5000	5576	6301	7244
5500	4199	4559	4985	5500	6133	6932	7969
6000	4581	4973	5438	6000	6691	7562	8693
6500	4963	5387	5892	6500	7249	8192	9417
7000	5344	5802	6345	7000	7806	8822	10142
7500	5726	6216	6798	7500	8364	9452	10866
8000	6108	6631	7251	8000	8921	10082	11591
8500	6490	7045	7704	8500	9479	10712	12315
9000	6871	7459	8158	9000	10036	11343	13040
9500	7253	7874	8611	9500	10594	11973	13764
10000	7635	8288	9064	10000	11152	12603	14488

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LONG RANGE CRUISE BELOW FL250

GROUND DIST. (NM)	AIR DISTANCE (NM)						
	TAIL WIND		WIND COMPONENTS (KT)			HEAD WIND	
	+150	+100	+ 50	0	-50	-100	-150
10	7	8	9	10	11	13	16
20	14	16	18	20	23	27	32
30	22	24	27	30	34	40	49
40	29	32	35	40	46	54	65
50	36	40	44	50	57	67	81
100	72	80	89	100	115	134	162
200	144	159	177	200	229	269	325
300	217	239	266	300	344	403	487
400	289	318	355	400	459	538	650
500	361	398	443	500	573	672	812
1000	722	796	886	1000	1147	1344	1624
1500	1084	1194	1330	1500	1720	2017	2436
2000	1445	1592	1773	2000	2294	2689	3248
2500	1806	1990	2216	2500	2867	3361	4060
3000	2167	2388	2659	3000	3441	4033	4873
3500	2528	2786	3103	3500	4014	4706	5685
4000	2890	3184	3546	4000	4588	5378	6497
4500	3251	3582	3989	4500	5161	6050	7309
5000	3612	3980	4432	5000	5735	6722	8121
5500	3973	4378	4875	5500	6308	7395	8933
6000	4334	4776	5319	6000	6882	8067	9745
6500	4695	5174	5762	6500	7455	8739	10557
7000	5057	5572	6205	7000	8028	9411	11369
7500	5418	5970	6648	7500	8602	10083	12181
8000	5779	6368	7092	8000	9175	10756	12994
8500	6140	6766	7535	8500	9749	11428	13806
9000	6501	7164	7978	9000	10322	12100	14618
9500	6863	7562	8421	9500	10896	12772	15430
10000	7224	7960	8864	10000	11469	13445	16242

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LONG RANGE CRUISE ABOVE FL250

GROUND DIST. (NM)	AIR DISTANCE (NM)						
	TAIL WIND		WIND COMPONENTS (KT)			HEAD WIND	
	+150	+100	+ 50	0	-50	-100	-150
10	8	8	9	10	11	13	15
20	15	16	18	20	22	26	30
30	23	25	27	30	34	38	44
40	30	33	36	40	45	51	59
50	38	41	45	50	56	64	74
100	76	82	90	100	112	128	148
200	151	164	181	200	224	255	296
300	227	247	271	300	336	383	444
400	302	329	361	400	448	510	592
500	378	411	451	500	560	638	739
1000	755	822	903	1000	1121	1275	1479
1500	1133	1234	1354	1500	1681	1913	2218
2000	1511	1645	1805	2000	2242	2551	2958
2500	1888	2056	2256	2500	2802	3188	3697
3000	2266	2467	2708	3000	3363	3826	4437
3500	2644	2879	3159	3500	3923	4464	5176
4000	3022	3290	3610	4000	4484	5101	5915
4500	3399	3701	4062	4500	5044	5739	6655
5000	3777	4112	4513	5000	5605	6376	7394
5500	4155	4524	4964	5500	6165	7014	8134
6000	4532	4935	5415	6000	6726	7652	8873
6500	4910	5346	5867	6500	7286	8289	9613
7000	5288	5757	6318	7000	7847	8927	10352
7500	5665	6168	6769	7500	8407	9565	11091
8000	6043	6580	7221	8000	8968	10202	11831
8500	6421	6991	7672	8500	9528	10840	12570
9000	6799	7402	8123	9000	10089	11478	13310
9500	7176	7813	8575	9500	10649	12115	14049
10000	7554	8225	9026	10000	11210	12753	14789