

# KURDISTAN REGIONAL GOVERNMENT



## **SULAYMANIYAH INTERNATIONAL AIRPORT**

### **MATS**

#### **APPENDIX " F "**

#### **DIMENSIONAL UNITS**

**( First Edition )**

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**Dimensional Units Used in ATS**

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**1. The dimensional units used in connection with Air Traffic Services within Sulaymaniyah TMA and Control Zone are as follows : -**

<b>MEASUREMENTS</b>	<b>UNITS</b>
<b>Distance used in navigation position reporting, etc., generally in excess of 2 to 3 nautical miles.</b>	<b>Nautical Miles (nm) and Tenths.</b>
<b>Relatively short distances such as those relating to aerodromes, example: runway lengths.</b>	<b>Meters (m)</b>
<b>Altitudes, elevations and heights.</b>	<b>feet (ft)</b>
<b>Horizontal speed including wind speed.</b>	<b>Knots (kt)</b>
<b>Vertical speed.</b>	<b>Feet per minute (fpm)</b>
<b>Wind direction</b>	<b>Degrees Magnetic ( ° M )</b>
<b>Wind speed</b>	<b>Knots</b>
<b>Visibility including runway visual range.</b>	<b>Meters up to 5000m, Kilometers when 6 km or more</b>
<b>Altimeter setting.</b>	<b>Hectopascals (hPa)</b>
<b>Temperature.</b>	<b>Degrees Celsius ( ° C)</b>
<b>Weight.</b>	<b>Kilograms (kg)</b>
<b>Time</b>	<b>Hours (hr) and Minutes (min). 24 Hour Clock Beginning at Midnight Universal Time Constant (UTC).</b>

**2. Conversion Tables**

**2.1 Metres/Feet**

<b>METRES</b>	<b>FEET/METRES</b>	<b>FEET</b>
0.305	1	3.281
0.610	2	6.562
0.914	3	9.842
1.219	4	13.123
1.524	5	16.404
1.829	6	19.685
2.134	7	22.966
2.438	8	26.247
2.743	9	29.528
3.048	10	32.809
6.096	20	65.617
9.144	30	98.426
12.192	40	131.234
15.240	50	164.043
18.290	60	196.852
21.340	70	229.660
24.380	80	262.469
27.430	90	295.278
30.480	100	328.087
60.960	200	656.100
91.440	300	984.300
121.920	400	1,312.300
152.400	500	1,640.400
304.800	1,000	3,280.900
609.600	2,000	6,561.700
914.400	3,000	9,842.600
1,219.200	4,000	13,123.500
1,524.000	5,000	16,404.300

**2.2 Pounds (lb)/Kilograms**

<b>KG</b>	<b>LB/KG</b>	<b>LB</b>
<b>0.454</b>	<b>1</b>	<b>2.205</b>
<b>0.907</b>	<b>2</b>	<b>4.409</b>
<b>1.361</b>	<b>3</b>	<b>6.614</b>
<b>1.814</b>	<b>4</b>	<b>8.818</b>
<b>2.268</b>	<b>5</b>	<b>11.023</b>
<b>2.722</b>	<b>6</b>	<b>13.228</b>
<b>3.175</b>	<b>7</b>	<b>15.432</b>
<b>3.629</b>	<b>8</b>	<b>17.637</b>
<b>4.082</b>	<b>9</b>	<b>19.842</b>
<b>4.536</b>	<b>10</b>	<b>22.046</b>
<b>9.072</b>	<b>20</b>	<b>44.092</b>
<b>13.608</b>	<b>30</b>	<b>66.139</b>
<b>18.144</b>	<b>40</b>	<b>88.185</b>
<b>22.680</b>	<b>50</b>	<b>110.231</b>
<b>1,000 KG = 1 metric ton</b>		

**2.3 Nautical Miles/Kilometres**

<b>NAUTICAL MILES</b>	<b>NAUTICAL MILES KILOMETRES</b>	<b>KILOMETRES</b>
<b>0.54</b>	<b>1</b>	<b>1.85</b>
<b>1.08</b>	<b>2</b>	<b>3.70</b>
<b>1.62</b>	<b>3</b>	<b>5.56</b>
<b>2.16</b>	<b>4</b>	<b>7.41</b>
<b>2.70</b>	<b>5</b>	<b>9.26</b>
<b>3.24</b>	<b>6</b>	<b>11.11</b>
<b>3.78</b>	<b>7</b>	<b>12.96</b>
<b>4.32</b>	<b>8</b>	<b>14.82</b>
<b>4.86</b>	<b>9</b>	<b>16.67</b>
<b>5.40</b>	<b>10</b>	<b>18.52</b>

**2.4 Hectopascals / Inches (ins)**

<b>hPa</b>	<b>Inches</b>	<b>hPa</b>	<b>Inches</b>
970	28.64	1006	29.71
971	28.67	1007	29.74
972	28.70	1008	29.77
973	28.73	1009	29.80
974	28.76	1010	29.83
975	28.79	1011	29.85
976	28.82	1012	29.88
977	28.85	1013	29.91
978	28.88	1014	29.94
979	28.91	1015	29.97
980	28.94	1016	30.00
981	28.97	1017	30.03
982	29.00	1018	30.06
983	29.03	1019	30.09
984	29.06	1020	30.12
985	29.09	1021	30.15
986	29.12	1022	30.18
987	29.15	1023	30.21
988	29.18	1024	30.24
989	29.21	1025	30.27
990	29.23	1026	30.30
991	29.26	1027	30.33
992	29.29	1028	30.36
993	29.32	1029	30.39
994	29.35	1030	30.42
995	29.38	1031	30.45
996	29.41	1032	30.47
997	29.44	1033	30.50
998	29.47	1034	30.53
999	29.50	1035	30.56
1000	29.53	1036	30.59
1001	29.56	1037	30.62
1002	29.59	1038	30.65
1003	29.62	1039	30.68
1004	29.65	1040	30.71
1005	29.68		

**3. Time System**

**3.1 UTC is used in the Air Traffic, Communications and Aeronautical Information Services. In reporting time, the nearest whole minute shall be used as follows:-**

**(a) From 00 to 29 seconds inclusive, the present minute.**

**(b) From 30 to 59 seconds inclusive, the following minute.**

**4. Morse Code**

A	•-	M	--	Y	-•--
B	--••	N	-•	Z	--••
C	--•-•	O	----	0	-----
D	-••	P	•--•	1	•-----
E	•	Q	--•-	2	••----
F	••-•	R	•-•	3	•••--
G	--•	S	•••	4	••••-
H	••••	T	-	5	•••••
I	••	U	••-	6	-••••
J	•----	V	•••-	7	--•••
K	-•-	W	•--	8	----••
L	•-••	X	-••-	9	-----•

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