

**GEN 2. TABLES AND CODES**

**GEN 2.1 MEASURING SYSTEM, AIRCRAFT MARKINGS, and HOLIDAYS.**

**1. Unit of measurement**

The table of units of measurement shown below will be used by aeronautical station within Bhutan for air and ground operations.

<i>For measurement of</i>	<i>Unit used</i>
Distance used in navigation, position reporting, etc.- Generally in excess of 2 nautical miles.	Nautical Miles and tenths
Relatively short distance such as those relating to aerodromes (e.g. runway lengths)	Metres
Altitudes, elevations and heights	Feet
Horizontal speed including wind speed	Knots
Vertical Speed	Feet per minute
Wind direction for landing and taking takeoff	Degrees Magnetic
Wind direction except for landing and takeoff	Degrees True
Visibility including runway visual range	Kilometres or metres
Altimeter setting	Hactopascal
Temperature	Degrees Celsius
Weight	Metric tonnes /Kilograms/lbs
Time	Hours and minutes, beginning at midnight UTC

**2. Temporal reference System**

**2.1 General**

Co-ordinated Universal Time (UTC) and Gregorian calendar are used by air navigation services and in publications issued by the Aeronautical Information Service. Reporting of time is expressed to the nearest minutes, e.g. 10:25:35 is reported as 1026.

The Local time in Bhutan is UTC plus 6 hours and Daylight saving hours are not employed

**3. Horizontal reference system**

**3.1 Name/designation of system**

All published geographical co-ordinates indicating latitude and longitude are expressed in World Geodetic System – 1984 (WGS-84) geodetic reference datum.

**3.2 Identification and parameters of the projection**

Universal Transverse Mercator (UTM) projection is used.

**3.3 Identification of the ellipsoid used**

Geodetic Reference system-1980 (GRS-80) ellipsoid is used.

**3.4 Identification of the datum used**

International Terrestrial Reference Frame 2008 (ITRF 2008) is used.

**3.5 Area of application**

The area of application for the published geographical co-ordinate coincides with the area of responsibility of the Aeronautical Information Service. i.e. the entire territory of Bhutanese airspace .

**3.6 Use of asterisk**

- 3.6.1 An asterisk (\*) will be used to identify those published geographical coordinates which have been transformed into WGS-84 coordinates but whose accuracy of original field work does not meet the requirements in ICAO Annex 11, Chapter 2 and ICAO Annex 14, Volume I, Chapter 2. Specifications for determination and reporting of WGS-84 coordinates are given in ICAO Annex 11, Chapter 2 and ICAO Annex 14, Volume I, Chapter 2.

**4. Vertical Reference system**

**4.1 Name/designation of system**

The Vertical Reference system corresponds to mean sea level (MSL).

**4.2 Geoid model**

The geoid model used is the Earth Gravitational Model-1996 (EGM-96).

**5. Aircraft nationality and registration marks**

The nationality mark for aircraft registered in Bhutan is the letter A5. The nationality mark is followed by a hyphen and a registration mark consisting of 3 letters, e.g. A5- RGD

**6. Public Holidays**

<i>Name/ Occasion</i>	<i>Date/Month</i>
1. <i>Birth Anniversary of 5<sup>th</sup> King of Bhutan.</i>	21 <sup>st</sup> – 23 <sup>rd</sup> Feb
2. <i>Birth Anniversary of 3<sup>rd</sup> King of Bhutan</i>	2 <sup>nd</sup> May
3. <i>Coronation day of 5<sup>th</sup> King of Bhutan</i>	1 <sup>st</sup> November
4. <i>Birth Anniversary of 4<sup>th</sup> King of Bhutan</i>	11 November
5. <i>National Day of Bhutan</i>	17 December
7. <i>*Lord Buddha's Parinirvana</i>	-
8. <i>*Bhutanese Year (Losar)</i>	-
9. <i>*Birth Anniversary of Guru Rimpoche</i>	-
10. <i>*The 1st Sermon of Lord Buddha</i>	-
11. <i>*Death Anniversary of Zhabdrung (Zhabdrung Kunchoe)</i>	-
12. <i>*Blessed Rainy Day</i>	-
13. <i>*Winter Solstice (Nyinlog)</i>	-
14. <i>*Traditional Day of Offerings</i>	-
15. <i>*Descending Day of Lord Buddha for Heaven</i>	-
16. <i>*Dasain</i>	-
17. <i>* Local Annual Festivals (Tshechu)</i>	-

*\*Note:- The actual Date/Month are not fixed but observed as per the Bhutanese calendar which is announced at the beginning of the each year*