

Format Description: RTNet PWV Data in “GPSMET Processing” web site:

<https://gpsmet.gps-solutions.com/>

Example

```
2022 01 18 00 00 00 00 SGU1 2.1142 0.0231 0.0021 8.28 9.4 273.64 914.1 0.156 2.0843
2022 01 18 00 00 30 00 SGU1 2.1142 0.0231 0.0021 8.28 9.4 273.64 914.1 0.156 2.0843
2022 01 18 00 01 00 00 SGU1 2.1142 0.0229 0.0021 8.25 9.4 273.64 914.1 0.156 2.0843
2022 01 18 00 01 30 00 SGU1 2.1142 0.0229 0.0021 8.25 9.4 273.64 914.1 0.156 2.0843
2022 01 18 00 02 00 00 SGU1 2.1142 0.0229 0.0021 8.25 9.4 273.64 914.1 0.156 2.0843
```

Format Description (Space-delimited file)

(Note: ZTD: Zenith Total (Tropospheric) Delay)

Date (Year)	INTEGER (I4)	Year	
Date (Month)	INTEGER (I2)	Month	
Date (Day)	INTEGER (I2)	Day	
Time (Hour)	INTEGER (I2)	Hour	
Time (Minute)	INTEGER (I2)	Minute	
Time (Second)	INTEGER (I2)	Second	
Station ID	STRING (4 characters)	STRING	
a priori ZTD	FLOAT (F6.4)	m	a priori ZTD
Estimated ZTD	FLOAT (F6.4)	m	Estimated ZTD
Sigma ZTD	FLOAT (F6.4)	m	Sigma ZTD
PWV	FLOAT (F5.2)	mm	Precipitable Water Vapor (or TPW)
Ts	FLOAT (F5.1)	centigrade	Surface Temperature (at GNSS site)
Tm	FLOAT (F6.2)	K	Vertical mean temperature
Ps	FLOAT (F6.1)	hPA (mB)	Surface Pressure (at GNSS site)
PI	FLOAT (F5.3)	dimensionless	Mapping factor from ZWD to PWV
ZHD	FLOAT (F6.4)	m	Zenith Hydrostatic Delay

Notes:

ZTD is “a priori ZTD” + “Estimated ZTD”

Update history:

January 24, 2022 Addition: The column “Sigma ZTD” (missing in the previous document)

Reviewed: January 24, 2022

Format Description: NOAA **GPSMET** Data in “GPSMET Processing” web site:

<https://gpsmet.gps-solutions.com/>

Example

AIS5, AIS5, 16/05/10 15:00:00, 2.27, 1022.50, 284.25, -99.9, 2.4715, 0.1444, 2.3271,
 274.86, 6.369, 0.04, 55.068880, -131.59921, 37.30, -4.96, 32.34
 ANG5, ANG5, 16/05/10 15:00:00, 3.16, 1011.60, 299.85, -99.9, 2.5013, 0.1937, 2.3076,
 286.09, 6.135, 0.03, 29.301480, -95.48507, 16.20, -28.23, -12.03

Format Description (Comma-delimited file)

Station ID	STRING (4 characters)	STRING	
Station ID	STRING (4 characters)	STRING	
Date / Time	DATE (YEAR-MO-DD)	STRING	DATE (YEAR-MO-DD) TIME (HH:MM:SS)
PWV	FLOAT (F.2)	10 mm	Precipitable Water Vapor (or TPW)
Ps	FLOAT (F.2)	hPA (mB)	Surface Pressure (at GNSS site)
Ts	FLOAT (F.2)	K	Surface Temperature (at GNSS site)
RH	FLOAT (F.1)	Percent	Relative Humidity
ZTD	FLOAT (F.4)	m	Zenith Total (Tropospheric) Delay
ZWD	FLOAT (F.4)	m	Zenith Wet Delay
ZHD	FLOAT (F.4)	m	Zenith Hydrostatic Delay
Tm	FLOAT (F.2)	K	Mean temperature
PI ⁻¹	FLOAT (5.3)	dimensionless	Mapping factor from ZWD to PWV
TPW_sigma	FLOAT (F.4)	10mm	ZTD_sigma x PI
Latitude	FLOAT (F.6)	Degree	
Longitude	FLOAT (F.5)	Degree	
EHGT	FLOAT (F.2)	m	Ellipsoidal height
Geoid height	FLOAT (F.2)	m	EGM96 Geoid
Sea level height	FLOAT (F.2)	m	Orthometric height

Format Description: GNSSATM Data in “GPSMET Processing” web site:

<https://gpsmet.gps-solutions.com/>

Example

```
ANG5 2016-01-17 23:20:00 2.3963 0.0023 2.3251 0.0712 11.20 12.2 275.65 1019.3 0.157
BARH 2016-01-17 23:20:00 2.3330 0.0031 2.2870 0.0460 6.98 -2.0 265.43 1003.9 0.152
BARN 2016-01-17 23:20:00 2.3028 0.0041 2.2477 0.0551 8.34 -2.8 264.85 986.6 0.151
BLKV 2016-01-17 23:20:00 2.1717 0.0036 2.1265 0.0452 6.87 -0.8 266.29 932.7 0.152
CAMR 2016-01-17 23:20:00 2.3843 0.0023 2.3274 0.0569 8.96 12.0 275.51 1020.3 0.157
```

Format Description (Space-delimited file)

Station ID	STRING (4 characters)	STRING	
Date	DATE (YEAR-MO-DD)	DATE_STRING	
Time	TIME (HH:MM:SS)	TIME_STRING	
ZTD	FLOAT (F6.4)	m	Zenith Total (Tropospheric) Delay
ZTD_sigma	FLOAT (F6.4)	m	Sigma ZTD
ZHD	FLOAT (F6.4)	m	Zenith Hydrostatic Delay
ZWD	FLOAT (F6.4)	m	Zenith Wet Delay
PWV	FLOAT (F5.2)	mm	Precipitable Water Vapor (or TPW)
Ts	FLOAT (F5.1)	centigrade	Surface Temperature (at GNSS site)
Tm	FLOAT (F6.2)	K	Mean temperature
Ps	FLOAT (F6.1)	hPA (mB)	Surface Pressure (at GNSS site)
PI	FLOAT (F5.3)	dimensionless	Mapping factor from ZWD to PWV