

## Parameters included in SYNOP data files

Descripti on	Mnemonic	Type *	Unit
WMO station code	num_sta	because	
date (UTC)	date	because	AAAAMMDDHHMISS
pressure at sea level	pmer	int	Pa
pressure variation in 3 hours	tend	int	Pa
type of barometric trend	cod_tend	int	code (0200)
average wind direction 10mn	dd	int	degree
average wind speed 10mn	ff	real	m/s
temperature	t	real	K
dew point	td	real	K
humidity	u	int	%
horizontal visibility	vv	real	meter
present time	ww	int	code (4677)
time spent 1	w1	int	code (4561)
time spent 2	w2	int	code (4561)
total cloudiness	n	real	%
cloudiness of the lower level	nbas	int	octa
height of the cloud base of the lower stage	hbas	int	meter
type of clouds of the lower stage	cl	int	code (0513)
middle stage cloud type	cm	int	code (0515)
type of clouds of the upper stage	ch	int	code (0509)
pressure station	near	int	Pa
barometric level	niv_bar	int	Pa
geopotential	geop	int	m <sup>2</sup> /s <sup>2</sup> .
pressure variation in 24 hours	tend24	int	Pa
minimum temperature over N hours	tnN	real	K
maximum temperature over N hours	txN	real	K
minimum soil temperature over 12 hours	tminsol	real	K
method measure tw	sw	int	code (3855)
wet bulb temperature	tw	real	K
gusts over the last 10 minutes	raf10	real	m/s
gusts over a period	rafper	real	m/s
measurement period of the burst	per	real	minute
soil condition	ground_state	int	code (0901)
total height of the snow, ice or other layer on the ground	ht_snow	real	meter
height of fresh snow	ssfrai	real	meter
Measurement period for fresh snow	perssfrai	real	1/10 hour
Precipitation in the last N hours	rrN	real	mm
Special phenomenon	phenspeN	real	code (3778)
Cloud cover N	nnuageN	int	octa
Type of cloud N	ctypeN	int	code (0500)
Cloud base height N	hnuageN	int	meter

\* **car** : ASCII character, **int** : integer, **real** : real number (with decimal).

The numbers in parentheses after the word "code" are the WMO (World Meteorological Organization) code table numbers  
Link to the WMO documentation : [click here](#)