

Table 1. Definition of the columns in the moving upper-air geometrical height level format ASCII files used for the ERA-CLIM data. Suffices .1/.2 added to flag values signify observation values obtained during ascent/descent of a kite or tethered balloon (see Table 5). n runs from 0 to 100.

Column	Parameter	Unit	Type
1	observation type		integer
2	latitude	°	float
3	longitude	°	float
4	coordinate flag		integer
5	year		integer
6	month		integer
7	day		integer
8	date flag		integer
9	hour	h (UTC)	integer
10	minutes	min	float
11	time flag		integer
12+20*(n-1)	height level n (hn)	m asl	float
13+20*(n-1)	hn flag		integer
14+20*(n-1)	hn pressure	hPa	float
15+20*(n-1)	hn pressure flag		integer
16+20*(n-1)	hn temperature	°C	float
17+20*(n-1)	hn temperature flag		integer
18+20*(n-1)	hn wind direction	°	float
19+20*(n-1)	hn wind direction flag		integer
20+20*(n-1)	hn wind speed	m/s	float
21+20*(n-1)	hn wind speed flag		integer
22+20*(n-1)	hn u wind	m/s	float
23+20*(n-1)	hn u wind flag		integer
24+20*(n-1)	hn v wind	m/s	float
25+20*(n-1)	hn v wind flag		integer
26+20*(n-1)	hn relative humidity	%	float
27+20*(n-1)	hn relative humidity flag		integer
28+20*(n-1)	hn dew point difference	K	float
29+20*(n-1)	hn dew point difference flag		integer
30+20*(n-1)	hn specific humidity	g/kg	float
31+20*(n-1)	hn specific humidity flag	°	integer

Table 2. Definition of the columns in the moving upper-air pressure level format ASCII files used for the ERA-CLIM data. Suffices .1/.2 added to flag values signify observation values obtained during ascent/descent of a kite or tethered balloon (see Table 5). n runs from 0 to 50.

Column	Parameter	Unit	Type
1	observation type		integer
2	latitude	°	float
3	longitude	°	float
4	coordinate flag		integer
5	year		integer
6	month		integer
7	day		integer
8	date flag		integer
9	hour	h (UTC)	integer
10	minutes	min	float
11	time flag		integer
12+20*(n-1)	pressure level n (pn)	hPa	float
13+20*(n-1)	pn flag		integer
14+20*(n-1)	pn geopotential height	gpm	float
15+20*(n-1)	pn geopotential height flag		integer
16+20*(n-1)	pn temperature	°C	float
17+20*(n-1)	pn temperature flag		integer
18+20*(n-1)	pn wind direction	°	float
19+20*(n-1)	pn wind direction flag		integer
20+20*(n-1)	pn wind speed	m/s	float
21+20*(n-1)	pn wind speed flag		integer
22+20*(n-1)	pn u wind	m/s	float
23+20*(n-1)	pn u wind flag		integer
24+20*(n-1)	pn v wind	m/s	float
25+20*(n-1)	pn v wind flag		integer
26+20*(n-1)	pn relative humidity	%	float
27+20*(n-1)	pn relative humidity flag		integer
28+20*(n-1)	pn dew point difference	K	float
29+20*(n-1)	pn dew point difference flag		integer
30+20*(n-1)	pn specific humidity	g/kg	float
31+20*(n-1)	pn specific humidity flag		integer

Table 3. Definition of the columns in the fixed station upper-air geometrical height level format ASCII files used for the ERA-CLIM data. Suffixes .1/.2 added to flag values signify observation values obtained during ascent/descent of a kite or captive balloon (see Table 5). n runs from 0 to 100.

Column	Parameter	Unit	Type
1	observation type		integer
2	year		integer
3	month		integer
4	day		integer
5	date flag		integer
6	hour	h (UTC)	integer
7	minutes	min	float
8	time flag		integer
9+20*(n-1)	height level n (hn)	m asl	float
10+20*(n-1)	hn flag		integer
11+20*(n-1)	hn pressure	hPa	float
12+20*(n-1)	hn pressure flag		integer
13+20*(n-1)	hn temperature	°C	float
14+20*(n-1)	hn temperature flag		integer
15+20*(n-1)	hn wind direction	°	float
16+20*(n-1)	hn wind direction flag		integer
17+20*(n-1)	hn wind speed	m/s	float
18+20*(n-1)	hn wind speed flag		integer
19+20*(n-1)	hn u wind	m/s	float
20+20*(n-1)	hn u wind flag		integer
21+20*(n-1)	hn v wind	m/s	float
22+20*(n-1)	hn v wind flag		integer
23+20*(n-1)	hn relative humidity	%	float
24+20*(n-1)	hn relative humidity flag		integer
25+20*(n-1)	hn dew point difference	K	float
26+20*(n-1)	hn dew point difference flag		integer
27+20*(n-1)	hn specific humidity	g/kg	float
28+20*(n-1)	hn specific humidity flag		integer

Table 4. Definition of the columns in the fixed station upper-air pressure level format ASCII files used for the ERA-CLIM data. Suffices .1/.2 added to flag values signify observation values obtained during ascent/descent of a kite or captive balloon (see Table 5). n runs from 0 to 50.

Column	Parameter	Unit	Type
1	observation type		integer
2	year		integer
3	month		integer
4	day		integer
5	date flag		integer
6	hour	h (UTC)	integer
7	minutes	min	float
8	time flag		integer
9+20*(n-1)	pressure level n (pn)	hPa	float
10+20*(n-1)	pn flag		integer
11+20*(n-1)	pn geopotential height	gpm	float
12+20*(n-1)	pn geopotential height flag		integer
13+20*(n-1)	pn temperature	°C	float
14+20*(n-1)	pn temperature flag		integer
15+20*(n-1)	pn wind direction	°	float
16+20*(n-1)	pn wind direction flag		integer
17+20*(n-1)	pn wind speed	m/s	float
18+20*(n-1)	pn wind speed flag		integer
19+20*(n-1)	pn u wind	m/s	float
20+20*(n-1)	pn u wind flag		integer
21+20*(n-1)	pn v wind	m/s	float
22+20*(n-1)	pn v wind flag		integer
23+20*(n-1)	pn relative humidity	%	float
24+20*(n-1)	pn relative humidity flag		integer
25+20*(n-1)	pn dew point difference	K	float
26+20*(n-1)	pn dew point difference flag		integer
27+20*(n-1)	pn specific humidity	g/kg	float
28+20*(n-1)	pn specific humidity flag		integer

Table 5. Meaning of flag values used in the upper-air data files.

Flag Value or Suffix	Meaning
-999	default value
1111	value linearly interpolated
2222	value suspicious
3333	value linearly interpolated and suspicious
4444	value implausible
5555	value linearly interpolated and implausible
6666	value corrected according to errata
7777	value illegible
8888	launch time has been used for upper levels
9999	observation time is mean of observation time on neighbouring levels or time value for last level below with given time
.1	value from ascent
.2	value from descent

Table 6. Numbers used to specify observational platform ("data type") in the upper-air data files.

Number	Type
1	airplane
2	kite
3	pilot balloon
4	radiosonde
5	registering balloon
6	captive balloon
7	manned balloon