

Discription of KL_90 resp. KL2000-format

item	meaning	Discription
Discription of item		
KE	identifier	German climat data are extracted from different meteorological network and are summarised to data categories. A categorie consist of a extract of meteorological elements [KE=KI (KI-categorie)]
special feature	special feature	Discription of the special of a element
unit	indication of units or codes	Parameter with a definite value, either 1. basic unit or 2. derived unit or 3. Code
Code	indication of the code	Discription of the Code resp. encoding or indication of the source
from to	indication of the position	Discription of the position of the element in standard format: example: identifier (STAT=station) started in column 3 ended in column 7 (= 5-digit item)
L	length	Number of digits of the element
valuation	valuation	Indication of the permitted valuation for the element: example: element=day valuation= 01-31
FK	identifier for no data	Missing climate values are allocated with a identifier for no data in the standard format .
Q	quality byte	Identifier for the running climat data check.
Discription of parameter		
P0	air pressure at station elevation	Measurement of the air pressure only for synoptic - climatological network at the standard times of observation: until 3/2001 times of observation: 7:30, 14:30 and 21:30 CET (KL90-format) from 4/2001 times of observation : 06:50, 12:50 and 18:50 CET (KL2000-format)
PM	daily mean of air pressure	Calculated daily mean: until 3/2001: - daily from the three standard times of observation (KL90-format) from 4/2001: - daily from hourly values (>21 observations) or main times (KL2000-format) (main times = 00, 06, 12, 18 UTC)
TXK	daily maximum of air temperature at 2 m high	Measurement of the daily maximum of air temperature: until 3/2001: - daily (21:30 CET previous day - 21:30 CET) (KL90-format) from 4/2001: - daily (00 - 24 UTC, synop. station) (KL2000-format)
TNK	daily minimum of air temperature at 2m high	Measurement of the daily minimum of air temperature: until 3/2001: - daily (21:30 CET previous day - 21:30 CET) (KL90-format) from 4/2001: - daily (00 - 24 UTC, synop. station) (KL2000-format)
TRK	daily variation of air temperature at 2m high	Calculated: TXK - TNK
TG	daily minimum of air temperature near groand	Measurement of the daily minimum of air temperature near ground: until 3/2001: - daily (21:30 CET previous day - 7:30 CET) (KL90-format) from 4/2001: - daily (00 - 24 UTC, synop. stations) (KL2000-format)
STGK	snow above soil thermometer	Observation: until 3/2001: - daily (21.30 CET previous day - 7.30 CET) (KL90-format) from 4/2001: - daily (00 - 24 UTC, synop. stations) (KL2000-format)
TT	air temperature at 2m high	Measurement of the air temperature at 2m high above ground at the standard times: until 3/2001 times: 7:30, 14:30 and 21:30 CET (KL90-format) from 4/2001 times: 06:50, 12:50 and 18:50 CET (KL2000-format)
TMK	daily mean of air temperature	Calculated daily mean: until 3/2001: - daily from the three standard times of observations (KL90-format) from 4/2001: - daily from hourly values (>21 observations) or main times (KL2000-format) (main times = 00, 06, 12, 18 UTC)
TF	wet bulb temperature	Calculated or measured element, dependent from air temperature and - humidity: until 3/2001: calculated/measured at three times 7:30, 14:30 and 21:30 CET (KL90-format) from 4/2001: calculated at three times 06:50, 12:50 and 18:50 CET (KL2000-format)
ETF	Ice accretion at time of measurement of wet bulb temperature	Acquired or calculated parameter until 3/2001: acquired/calculated to the three times 7:30, 14:30 and 21:30 CET (KL90-format) from 4/2001: acquired to the three times 06:50, 12:50 and 18:50 CET (KL2000-format)
VP	vapour pressure	Calculated element: until 3/2001: calculated to the three times 7:30, 14:30 and 21:30 CET (KL90-format) from 4/2001: calculated to the three times 06:50, 12:50 and 18:50 CET (KL2000-format)
VPM	daily mean of vapour pressure	Calculated daily mean: until 3/2001: - daily from the three standard times (KL90-format) from 4/2001: - daily from hourly values (>21 observation values) or main times (KL2000-format) (main times = 00, 06, 12, 18 UTC)
UP	relative humidity	Measurement of the relative humidity at 2m above ground at standard times: until 3/2001 times: 7:30, 14:30 and 21:30 CET (KL90-format) from 4/2001 times: 06:50, 12:50 and 18:50 CET (KL2000-format)
UPM	daily mean of the relative humidity	Calculated daily mean: until 3/2001: - daily from the three standard times (KL90-format) from 4/2001: - daily from hourly values (>21 observation values) or main times (KL2000-format) (main times = 00, 06, 12, 18 UTC)
UR	relative humidity based on registration	If registration occurred otherwise the value of the measurement of the relative humidity have been taken over: until 3/2001 times: 7:30, 14:30 and 21:30 CET (KL90-format) from 4/2001 times: 06:50, 12:50 and 18:50 CET (KL2000-format)
DK	wind direction	Measurement of the wind direction at the standard times, (wind rose 32-sections) until 3/2001 times: 7:30, 14:30 and 21:30 CET (KL90-format) from 4/2001 times: 06:50, 12:50 and 18:50 CET (KL2000-format)
FK	wind force	Measured or estimated (Beaufort-Skala) elemet at the standard times: until 3/2001 times: 7:30, 14:30 and 21:30 CET (KL90-format) from 4/2001 times: 06:50, 12:50 and 18:50 CET (KL2000-format)
FMK	daily mean of the wind force	Calculated daily mean: until 3/2001: - daily from the three standard times (KL90-format) from 4/2001: - daily from hourly values (>21 observation values) or main times (KL2000-format) (main times = 00, 06, 12, 18 UTC)
N	degree of cloudiness with all clouds	Estimated cover with clouds of visible sky in oktas at the standard times: until 3/2001 times: 7:30, 14:30 and 21:30 CET (KL90-format) from 4/2001 times: 06:50, 12:50 and 18:50 CET (KL2000-format)
CD	cloud density	Estimated cloud density at the standard times: until 3/2001 times: 7:30, 14:30 and 21:30 CET (KL90-format) from 4/2001 times: 06:50, 12:50 and 18:50 CET (KL2000-format)
WK	weather phenomena	Reported weather phenomena at the standard times: until 3/2001 times: 7:30, 14:30 and 21:30 CET (KL90-format) from 4/2001 times: 06:50, 12:50 and 18:50 CET (KL2000-format)
NM	daily mean of degree of cloudiness	Calculated daily mean: until 3/2001: - daily from the three standard times (KL90-format) from 4/2001: - daily from hourly values (>21 observation values) or main times (KL2000-format) (main times = 00, 06, 12, 18 UTC)
SD	daily total of sunshine duration	Calculated daily total: until 3/2001: - daily from the three standard times (KL90-format) from 4/2001: - daily from hourly values (>21 observation values) or main times (KL2000-format) (main times = 00, 06, 12, 18 UTC)

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SDJ	Identification, whether there was sunshine	Acquired from the sunshine duration of the day (value of the day)
VK	visibility	Measurement of the visibility at the standard times: until 3/2001 times: 7:30, 14:30 and 21:30 CET (KL90-format) from 4/2001 times: 06:50, 12:50 and 18:50 CET (KL2000-format)
EK	soil condition	Defintion of the soil condition at the standard times: until 3/2001 times: 7:30, 14:30 and 21:30 CET (KL90-format) from 4/2001 times: 06:50, 12:50 and 18:50 CET (KL2000-format)
VAK VBK VCK	identification of the type of fallen, displaced precipitation and signifiant weather phenomena	Specification of fallen precipitation, displaced precipitation and significant weather phenomena like thunder storm, fog and storm: daily (00 - 24 UTC, synop. main stations) (KL- resp. KL2000-format)
RK	precipitation amount	Measurement of the precipitation amount between the standard times: until 3/2001 times: 21:30 - 7:30, 7:30 - 14:30 and 14:30 - 21:30 CET (KL90-format) from 4/2001 times: 18:50 - 06:50, 06:50 - 12:50 and 12:50 -18:50 CET (KL2000-format)
RKF	type of precipitation	Type of precipitation between the standard times: until 3/2001 times: 21:30 - 7:30, 7:30 - 14:30 and 14:30 - 21:30 CET (KL90-format) from 4/2001 times: 18:50 - 06:50, 06:50 - 12:50 and 12:50 -18:50 CET (KL2000-format)
RS	daily total of precipitation	measured 24-hr sum of precipitation in the time of: until 3/2001: 7:30 - 7:30 CET following day (KL90-format) from 4/2001: 6:50 - 06:50 CET following day (KL2000-format)
SH SA NSH NSHJ	snow depth type of snow cover depth of new-fallen snow Identification whether there was new-fallen snow	Specification of snow depth, snow cover and depth of new-fallen snow: until 3/2001: at 7:30 CET - 7:30 CET following day (KL90-format) from 4/2001: at 06:50 CET - 06:50 CET following day (KL2000-format)
FX	daily maximum of wind speed	Measurement of the daily maximum: - daily (00 - 24 UTC, synop. main stations) (KL-90 resp. KL2000-format)
ASH	depth of snow cut	Specification of the depth of snow cut: until 3/2001: at 7:30 CET (KL90-format) from 4/2001: at 06:50 CET (KL2000-format)
WAAS	water equivalent of snow cut	Specification of the water equivalent (high of the layer of water, which is accumulated after melting of snow cut): until 3/2001: at 7:30 CET (KL90-format) from 4/2001: at 06:50 CET (KL2000-format)
WASH	water equivalent of total snow cover	Specification of the water equivalent (high of the layer of water which is accumulated alter melting of the total snow cover): until 3/2001: at 7:30 CET (KL90-format) from 4/2001: at 06:50 CET (KL2000-format)