# Studying the interaction of crop management practices and weather and the subsequent effect on nitrous oxide emissions, 2000-2005 [Canada]: Meteorological data

Codebook

NOTE: This codebook provides an explanation of variables and codes found in all of the files contained within the study "Studying the interaction of crop management practices and weather and the subsequent effect on nitrous oxide emissions, 2000-2005 [Canada]: Meteorological data". The codebook is organized by file name.

Agri-environmental Research Data Repository
University of Guelph
50 Stone Road East
Guelph, Ontario N1G 2W1
http://dataverse.scholarsportal.info/dvn/dv/ugardr

Variable	Variable Description

# Daily\_Air\_Temperature\_1999-2005

YEAR	Year data was measured
DOY	Day of year, units=Julian Day
DOT	Day Or year, units—Julian Day
OBS	Number of measurements made
000	Number of medadicinents hade
AIR_TEMP	Daily air temperature, units=degrees Celsius

# ERS\_Meteorological\_data\_1999-JD2442003

ID	Datalogger identification number		
	Value	Label	
	9999	No Data	
YEAR	Vanadata		
YEAR	Year data was measured		
	Value	Label	
	9999	No Data	
	3333	110 2000	
JD	Day of year,	, units=Julian Day	
	, , .	·	
	Value	Label	
	9999	No Data	
TIME	Time of mea	asurement, units=hour, minute	
	Value	Label	
	9999	No Data	
TA DOCE	A1	thurs December the december Calabina	
TA_ROSE	Air temperat	ture Rosemont, units=degrees Celsius	
	Value	Label	
	9999	No Data	
	3333	No Data	
TA_VAIS	Air temperat	iture Vaisala, units=degrees Celsius	
	7 iii temperu	tale facility and degrees search	
	Value	Label	
	9999	No Data	
RH	Relative hun	midity, units=percent	
	Value	Label	
	9999	No Data	
WTD	Water table depth, units=centimetres		
		Label	
	Value	Label No Data	
		Label No Data	
SOL RAD	Value 9999	No Data	
SOL_RAD	Value 9999		
SOL_RAD	Value 9999	No Data	
SOL_RAD	Value 9999 Solar radiation	No Data ion, units=Megajoules per metre squared	
	Value 9999 Solar radiation	No Data ion, units=Megajoules per metre squared    Label	
SOL_RAD  NET_RAD	Value 9999 Solar radiation Value 9999	No Data ion, units=Megajoules per metre squared    Label	
	Value 9999  Solar radiation  Value 9999  Net radiation	No Data  ion, units=Megajoules per metre squared    Label	
	Value 9999  Solar radiation  Value 9999  Net radiation  Value	No Data  ion, units=Megajoules per metre squared    Label	
	Value 9999  Solar radiation  Value 9999  Net radiation	No Data  ion, units=Megajoules per metre squared    Label	
NET_RAD	Value 9999  Solar radiation  Value 9999  Net radiation  Value 9999	No Data  ion, units=Megajoules per metre squared  Label  No Data  no, units=Megajoules per metre squared  Label  No Data	
	Value 9999  Solar radiation  Value 9999  Net radiation  Value 9999	No Data  ion, units=Megajoules per metre squared    Label	
NET_RAD	Value 9999  Solar radiation  Value 9999  Net radiation  Value 9999  Wind speed,	No Data  ion, units=Megajoules per metre squared    Label	
NET_RAD	Value 9999  Solar radiation  Value 9999  Net radiation  Value 9999  Wind speed,  Value	No Data  ion, units=Megajoules per metre squared    Label	
NET_RAD	Value 9999  Solar radiation  Value 9999  Net radiation  Value 9999  Wind speed,	No Data  ion, units=Megajoules per metre squared    Label	
NET_RAD WIND_SP	Value 9999  Solar radiation  Value 9999  Net radiation  Value 9999  Wind speed,  Value 9999	No Data  ion, units=Megajoules per metre squared    Label	
NET_RAD	Value 9999  Solar radiation  Value 9999  Net radiation  Value 9999  Wind speed,  Value	No Data  ion, units=Megajoules per metre squared    Label	
NET_RAD WIND_SP	Value 9999  Solar radiation  Value 9999  Net radiation  Value 9999  Wind speed,  Value 9999	No Data  ion, units=Megajoules per metre squared    Label	
NET_RAD WIND_SP	Value 9999  Solar radiation  Value 9999  Net radiation  Value 9999  Wind speed,  Value 9999  Wind vector	No Data  ion, units=Megajoules per metre squared    Label	
NET_RAD WIND_SP	Value 9999  Solar radiation  Value 9999  Net radiation  Value 9999  Wind speed,  Value 9999  Wind vector	No Data  ion, units=Megajoules per metre squared    Label	
NET_RAD WIND_SP	Value 9999  Solar radiation  Value 9999  Net radiation  Value 9999  Wind speed,  Value 9999  Wind vector	No Data  ion, units=Megajoules per metre squared    Label	
NET_RAD WIND_SP	Value 9999  Solar radiation  Value 9999  Net radiation  Value 9999  Wind speed,  Value 9999  Wind vector  Value 9999  Wind directi	No Data  ion, units=Megajoules per metre squared    Label	
NET_RAD WIND_SP	Value 9999  Solar radiation  Value 9999  Net radiation  Value 9999  Wind speed,  Value 9999  Wind vector  Value 9999  Wind directi  Value	No Data	
NET_RAD WIND_SP	Value 9999  Solar radiation  Value 9999  Net radiation  Value 9999  Wind speed,  Value 9999  Wind vector  Value 9999  Wind directi	No Data  ion, units=Megajoules per metre squared    Label	

WIND_DEV	Wind direction standard deviation	
	Value	Label
	9999	No Data
TOT_RAIN	Total rainfall, ur	nits=millimetres
	Value	Label
	9999	No Data
AVG_TEMP	Average temper	ature, units=degrees Celsius
	Value	Label
	9999	No Data
AVG_RH	Average relative humidity, units=percent	
	Value	Label
	9999	No Data
NO_SCAN	Number of scans	
	Value	Label
	9999	No Data

# ERS\_Meteorological\_data\_JD2522003-2005

TAB_ID	Table identification		
YEAR	Year data was measured		
DOY	Day of year, units=Julian Day		
TIME	Time of measurement, units=UTC hour, minute		
STAT_ID	Station ID		
DATA_AV	Data availability, units=percent of hour		
PRESS	Station pressure measured on the hour (1 minute mean), units=hectoPascals		
AIR_TEMP	Air temperature measured on the hour (1 minute mean), units=degrees Celsius		
RH1	Relative humidity measured on the hour (1 minute mean), units=percent		
WSD1	Mean wind speed over minute 58 to 60, units=knots		
MVM1	Mean vector magnitude over minute 58 to 60, units=knots		
MVM_DIR1	Mean wind vector direction over minute 58 to 60, units=degrees true		
SIGT1	Sigma theta over minute 58 to 60, units=degrees		
WSDPK5_1	Peak 5 second wind speed over the past hour, units=knots		
WSD_PKT	Peak wind speed time over the past hour, units= hour, minute		
WSD_PDIR	Peak wind speed direction over the past hour, units= degrees true		
WSDMAX2	Maximum 2 minute wind speed over the past hour, units=knots		
TBRG_RN	Amount of rain measured by a tipping bucket rain gauge over the past hour, units=millimetres		
WGR_15	Weighing gauge reading at 15 minutes, units=millimetres		
WGR_30	Weighing gauge reading at 30 minutes, units=millimetres		
WGR_45	Weighing gauge reading at 45 minutes, units=millimetres		
WGR_60	Weighing gauge reading on the hour, units=millimetres		
WGPREC	Weighing gauge precipitation over the past hour, units=millimetres		
SNOW_GRD	Snow on ground over minute 58 to 60, units=millimetres		
	Value         Label           6999         No Data		
SNOWFALL	Snowfall over past hour, units=millimetres		
	Value Label		
	6999 No Data		
WSD2	Mean wind speed over minute 50 to 60, units=knots		
MVM2	Mean vector magnitude over minute 50 to 60, units=knots		
MVM_DIR2	Mean wind vector direction over minute 50 to 60, units=degrees true		
SIGT2	Sigma theta over minute 50 to 60, units=degrees		
WSDPK5_2	Peak 5 second wind speed over minute 50 to 60, units=knots		

WSDMAX10	Maximum 10 minute wind speed over past hour, units=knots		
TEMP	Averge temperature over 1 hour, units=degrees Celsius		
RH2	Average relative humidity over 1 hour, units=percent		
WSD3	Mean wind speed over 1 hour, units=knots		
MVM3	Mean vector	magnitude over 1 hour, units=knots	
MVM_DIR3		vector direction over 1 hour, units=degrees true	
	Value 6999	Label No Sensor	
SIGT3	Sigma theta	standard deviation 1 hour average, units=degrees	
SIGU	Sigma U star	idard deviation 1 hour average, units=knots	
MAX_TA	Maximum ai	r temperature over past hour, units=degrees Celsius	
MIN_TA	Minimum air	temperature over past hour, units=degrees Celsius	
UVB1	Ultraviolet B	1 hour average	
	Value 6999	Label No Sensor	
	0333	, to senso.	
UVB5	Ultraviolet B	last 5 minutes	
	Value	Label	
	6999	No Sensor	
UVB_MAX5	Ultraviolet B	5 minute maximum	
	Value Label		
	6999	No Sensor	
SOIL_T1	Soil tempera	ture, 5 centimetres under sod, 1 hour average, units=degrees Celsius	
SOIL_T2	Soil tempera	Soil temperature, 10 centimetres under sod, 1 hour average, units=degrees Celsius	
SOIL_T3	Soil tempera	Soil temperature, 20 centimetres under sod, 1 hour average, units=degrees Celsius	
	-72.8	Label False reading	
	72.0	ruse reduning	
RF1_RAD1	Radiofrequency radiation 1 hour total, units=kilowatt per metre squared		
	Value	Label	
	232.8 1463	False reading False reading	
	1403	raise reading	
RF1_RAD2	Radiofrequency radiation 1 hour average, units=kiloWatt per metre squared		
SUN	Sunshine over past hour, units=tenths of hour		
WSD_2M	2 metre wind speed 1 hour average, units=kilometres per hour		
GMT	Grass minimum temperature over past hour, units=degrees Celsius		
VIDEO1	Videograph on hour, units=nautical miles		
	Value	Label	
	6999	No Sensor	
VIDEO2	Videograph :	I minute average maximum	
	Value	Label	
	6999	No Sensor	

VIDEO3	Videograph 1 minute average minimum		
	Value	Label	
	6999	No Sensor	
RF1_T1	Radiofrequency radiation total over minutes 55 to 60, units=Watts per metre squared		
RF1_T2	Radiofrequency	radiation total over minutes 0 to 5, units=Watts per metre squared	
RF1_T3	Radiofrequency	radiation total over minutes 5 to 10, units=Watts per metre squared	
RF1_T4	Radiofrequency	radiation total over minutes 10 to 15, units=Watts per metre squared	
	Value	Label	
	-6999	No Data	
RF1_T5	Radiofrequency	radiation total over minutes 15 to 20, units=Watts per metre squared	
RF1_T6	Radiofrequency	radiation total over minutes 20 to 25, units=Watts per metre squared	
RF1_T7	Radiofrequency	radiation total over minutes 25 to 30, units=Watts per metre squared	
RF1_T8	Radiofrequency	radiation total over minutes 30 to 35, units=Watts per metre squared	
RF1_T9	Radiofrequency	radiation total over minutes 35 to 40, units=Watts per metre squared	
RF1_T10	Radiofrequency	radiation total over minutes 40 to 45, units=Watts per metre squared	
	Value	Label	
	· arac	Lubei	
	-86.2	False reading	
RF1_T11	-86.2		
RF1_T11 RF1_T12	-86.2 Radiofrequency	False reading	
	-86.2  Radiofrequency  Radiofrequency	False reading radiation total over minutes 45 to 50, units=Watts per metre squared	
RF1_T12	-86.2  Radiofrequency  Radiofrequency	False reading radiation total over minutes 45 to 50, units=Watts per metre squared radiation total over minutes 50 to 55, units=Watts per metre squared	
RF1_T12	Radiofrequency Radiofrequency Leaf wetness 1 h	False reading  radiation total over minutes 45 to 50, units=Watts per metre squared  radiation total over minutes 50 to 55, units=Watts per metre squared  nour average, units=volts	
RF1_T12	Radiofrequency Radiofrequency Leaf wetness 1 h	False reading  radiation total over minutes 45 to 50, units=Watts per metre squared  radiation total over minutes 50 to 55, units=Watts per metre squared  nour average, units=volts  Label	
RF1_T12	-86.2  Radiofrequency  Radiofrequency  Leaf wetness 1 h  Value -6999	False reading  radiation total over minutes 45 to 50, units=Watts per metre squared  radiation total over minutes 50 to 55, units=Watts per metre squared  nour average, units=volts  Label  No Data	
RF1_T12	Radiofrequency Radiofrequency Leaf wetness 1 h  Value -6999 -0.001 332.3	False reading  radiation total over minutes 45 to 50, units=Watts per metre squared  radiation total over minutes 50 to 55, units=Watts per metre squared  nour average, units=volts  Label  No Data False reading	
RF1_T12 LEAF_WET	Radiofrequency Radiofrequency Leaf wetness 1 h  Value -6999 -0.001 332.3  Soil temperature	False reading  radiation total over minutes 45 to 50, units=Watts per metre squared  radiation total over minutes 50 to 55, units=Watts per metre squared  nour average, units=volts  Label  No Data  False reading  False reading	
RF1_T12  LEAF_WET  SOIL_T4	Radiofrequency Radiofrequency Leaf wetness 1 h  Value -6999 -0.001 332.3  Soil temperature	False reading  radiation total over minutes 45 to 50, units=Watts per metre squared  radiation total over minutes 50 to 55, units=Watts per metre squared  nour average, units=volts  Label  No Data  False reading  False reading  e, 50 centimetres under sod, 1 hour average, units=degrees Celsius	
RF1_T12  LEAF_WET  SOIL_T4  SOIL_T5	Radiofrequency Radiofrequency Leaf wetness 1 h  Value -6999 -0.001 332.3  Soil temperature Soil temperature	False reading  radiation total over minutes 45 to 50, units=Watts per metre squared  radiation total over minutes 50 to 55, units=Watts per metre squared  nour average, units=volts  Label  No Data  False reading  False reading  False reading  e, 50 centimetres under sod, 1 hour average, units=degrees Celsius  e, 100 centimetres under sod, 1 hour average, units=degrees Celsius	
RF1_T12  LEAF_WET  SOIL_T4  SOIL_T5  SOIL_T6	Radiofrequency Radiofrequency Leaf wetness 1 h  Value -6999 -0.001 332.3  Soil temperature Soil temperature	False reading radiation total over minutes 45 to 50, units=Watts per metre squared radiation total over minutes 50 to 55, units=Watts per metre squared mour average, units=volts  Label No Data False reading False reading False reading e, 50 centimetres under sod, 1 hour average, units=degrees Celsius e, 100 centimetres under sod, 1 hour average, units=degrees Celsius e, 150 centimetres under sod, 1 hour average, units=degrees Celsius e, 300 centimetres under sod, 1 hour average, units=degrees Celsius e, 300 centimetres under sod, 1 hour average, units=degrees Celsius	
RF1_T12  LEAF_WET  SOIL_T4  SOIL_T5  SOIL_T6  SOIL_T7	Radiofrequency Radiofrequency Leaf wetness 1 h  Value -6999 -0.001 332.3  Soil temperature Soil temperature Soil temperature	False reading radiation total over minutes 45 to 50, units=Watts per metre squared radiation total over minutes 50 to 55, units=Watts per metre squared nour average, units=volts  Label No Data False reading False reading False reading e, 50 centimetres under sod, 1 hour average, units=degrees Celsius e, 100 centimetres under sod, 1 hour average, units=degrees Celsius e, 150 centimetres under sod, 1 hour average, units=degrees Celsius e, 300 centimetres under sod, 1 hour average, units=degrees Celsius e, 300 centimetres under sod, 1 hour average, units=degrees Celsius ble	
RF1_T12  LEAF_WET  SOIL_T4  SOIL_T5  SOIL_T6  SOIL_T7  UNK_1	Radiofrequency Radiofrequency Leaf wetness 1 h  Value -6999 -0.001 332.3  Soil temperature Soil temperature Soil temperature Unknown, illegib	False reading  radiation total over minutes 45 to 50, units=Watts per metre squared  radiation total over minutes 50 to 55, units=Watts per metre squared  nour average, units=volts  Label  No Data False reading False reading  False reading  e, 50 centimetres under sod, 1 hour average, units=degrees Celsius  e, 100 centimetres under sod, 1 hour average, units=degrees Celsius  e, 150 centimetres under sod, 1 hour average, units=degrees Celsius  e, 300 centimetres under sod, 1 hour average, units=degrees Celsius  e, 300 centimetres under sod, 1 hour average, units=degrees Celsius  ble  ble	
RF1_T12  LEAF_WET  SOIL_T4  SOIL_T5  SOIL_T6  SOIL_T7  UNK_1  UNK_2	Radiofrequency Radiofrequency Leaf wetness 1 h  Value -6999 -0.001 332.3  Soil temperature Soil temperature Unknown, illegib	False reading  radiation total over minutes 45 to 50, units=Watts per metre squared  radiation total over minutes 50 to 55, units=Watts per metre squared  nour average, units=volts  Label  No Data False reading False reading  False reading  e, 50 centimetres under sod, 1 hour average, units=degrees Celsius  e, 100 centimetres under sod, 1 hour average, units=degrees Celsius  e, 150 centimetres under sod, 1 hour average, units=degrees Celsius  e, 300 centimetres under sod, 1 hour average, units=degrees Celsius  e, 300 centimetres under sod, 1 hour average, units=degrees Celsius  ble  ble	
RF1_T12  LEAF_WET  SOIL_T4  SOIL_T5  SOIL_T6  SOIL_T7  UNK_1  UNK_2	Radiofrequency Radiofrequency Leaf wetness 1 h  Value -6999 -0.001 332.3  Soil temperature Soil temperature Unknown, illegit Unknown, illegit Water level gauge	False reading  radiation total over minutes 45 to 50, units=Watts per metre squared  radiation total over minutes 50 to 55, units=Watts per metre squared  nour average, units=volts  Label  No Data  False reading  False reading  False reading  e, 50 centimetres under sod, 1 hour average, units=degrees Celsius  e, 100 centimetres under sod, 1 hour average, units=degrees Celsius  e, 150 centimetres under sod, 1 hour average, units=degrees Celsius  e, 300 centimetres under sod, 1 hour average, units=degrees Celsius  e, 300 centimetres under sod, 1 hour average, units=degrees Celsius  ele dele dele dele dele dele dele dele	

Variable Variable Description			
	Variable		Variable Description

## Snow\_depth\_2000-2005

YEAR	Year data was measured
DOY	Day of year, units=Julian Day
TIME	Time measurement was taken, units=hours,minutes
PLOT1	Depth of snow measured in Plot 1, units=centimetres
PLOT2	Depth of snow measured in Plot 2, units=centimetres
PLOT3	Depth of snow measured in Plot 3, units=centimetres
PLOT4	Depth of snow measured in Plot 4, units=centimetres

# Weather\_Vector\_Data\_2000-2005

DOY Day of year, units-bilain Day  TIME Time measurement was taken, units-brour, minute  ATEMP Air temperature vector, units-degrees Celsius  Viroue Lober 1999 No Data  Wind direction vector, units-degrees true  Viroue Lober 1999 No Data  SOURAD Solar radiation vector, units-Megaloules per metre squared  Viroue Lober 1999 No Data  SOURAD Solar radiation vector, units-Wegaloules per metre squared  Viroue Lober 1999 No Data  NETRAD Net radiation vector, units-Watts per metre squared  Viroue Lober 1999 No Data  NETRAD Net radiation vector, units-Watts per metre squared  Viroue Lober 1999 No Data  NETRAD Sensible heat vector (empirical, HNETRAD-0.26*NETRAD), units-Watts per metre squared  Viroue Lober 1999 No Data  HACTION Sensible heat vector combined (see Vector, Data, NOTES, 2000-2005, txt for details), units-Watts per metre squared  Viroue Lober 1999 No Data  HYUNE Virous Lober 1999 No Data  HYUNE Unifillered virtual sensible heat vector (see Vector, Data, NOTES, 2000-2005, txt for details), units-Watts per metre squared  Viroue Lober 1999 No Data  HYUNE Empirical sensible heat vector combined (see Vector, Data, NOTES, 2000-2005, txt for details), units-Watts per metre squared  Viroue Lober 1999 No Data  HYUNE Empirical sensible heat vector combined (see Vector, Data, NOTES, 2000-2005, txt for details), units-Watts per metre squared  Viroue Lober 1999 No Data  HYUNE Empirical virtual sensible heat vector combined (see Vector, Data, NOTES, 2000-2005, txt for details), units-Watts per metre squared  Viroue Lober 1999 No Data  HYUNE Lober 1999 No Data	YEAR	Year data was me	asured	
TIME Time measurement was taken, units-shour, minute  ATEMP Air temperature vector, units-degrees Celsius    Value		real data has messared		
ATEMP Air temperature vector, units-degrees Celsius    Value   Laber     9999   No Data	DOY	Day of year, units=Julian Day		
ATEMP Air temperature vector, units-degrees Celsius    Value   Laber     9999   No Data	TINAS	The second of th		
Value   Label     9999   No Data	TIME	Time measurement was taken, units=hour, minute		
Value   Laber	ATEMP	Air temperature vector, units=degrees Celsius		
9999   No Data				
WINDDIR  Wind direction vector, units-degrees true    Value				
Value   Label		9999	No Data	
Value   Label   10999   No Data   100	WINDDIR	Wind direction ve	ctor, units=degrees true	
SOLRAD Solar radiation vector, units-iMegaloules per metre squared    Value   Label     9999   No Data		Time an establication, white degrees trace		
SOLRAD  Solar radiation vector, units=Megaloules per metre squared    Value   Laber     9999   No Data				
Value   Label   9999   No Data		9999	No Data	
Value   Label   9999   No Data	SOLRAD	Solar radiaion vec	tor units=Megaloules per metre squared	
NETRAD  Net radiation vector, units-Watts per metre squared    Value   Label     9999   No Data	3021013	Join Tunidion Vec	tor, and megasones per mette squared	
NETRAD  Net radiation vector, units=Watts per metre squared    Value   Lobel     9999   No Data		Value	Label	
Value   Label     9999   No Data		9999	No Data	
Value   Label     9999   No Data				
HNETRAD   Sensible heat vector (empirical, HNETRAD=0.26*NETRAD), units=Watts per metre squared	NETRAD	Net radiation vect	or, units=Watts per metre squared	
HNETRAD   Sensible heat vector (empirical, HNETRAD=0.26*NETRAD), units=Watts per metre squared		Value	Label	
Value   Label     9999   No Data				
Value   Label     9999   No Data				
HCOMB Sensible heat vector combined (see Vector_Data_NOTES_2000-2005.txt for details), units=Watts per metre squared    Value	HNETRAD	Sensible heat vect	or (empirical, HNETRAD=0.26*NETRAD), units=Watts per metre squared	
HCOMB Sensible heat vector combined (see Vector_Data_NOTES_2000-2005.txt for details), units=Watts per metre squared    Value		Value	I ahel	
Value				
Value				
HVCOMB	HCOMB	Sensible heat vect	or combined (see Vector_Data_NOTES_2000-2005.txt for details), units=Watts per metre squared	
HVCOMB		Value	I ahel	
HVCOMB Virtual sensible heat vector combined (see Vector_Data_NOTES_2000-2005.txt for details), units=Watts per metre squared    Value				
Value   Label   9999   No Data				
HVUNF Unfilterd virtual sensible heat vector (see Vector_Data_NOTES_2000-2005.txt for details), units=Watts per metre squared    Value	HVCOMB	Virtual sensible he	eat vector combined (see Vector_Data_NOTES_2000-2005.txt for details), units=Watts per metre squared	
HVUNF Unfilterd virtual sensible heat vector (see Vector_Data_NOTES_2000-2005.txt for details), units=Watts per metre squared    Value		Value	l ahal	
HVUNF Unfilterd virtual sensible heat vector (see Vector_Data_NOTES_2000-2005.txt for details), units=Watts per metre squared    Value				
Value   Label   9999   No Data				
HCOMBEM  Empirical sensible heat vector combined (see Vector_Data_NOTES_2000-2005.txt for details), units=Watts per metre squared    Value	HVUNF	Unfilterd virtual sensible heat vector (see Vector_Data_NOTES_2000-2005.txt for details), units=Watts per metre squared		
HCOMBEM  Empirical sensible heat vector combined (see Vector_Data_NOTES_2000-2005.txt for details), units=Watts per metre squared    Value				
HCOMBEM Empirical sensible heat vector combined (see Vector_Data_NOTES_2000-2005.txt for details), units=Watts per metre squared    Value				
Value   Label   9999   No Data		9999	NO DOLO	
HVCOMBEM Empirical virtual sensible heat vector combined (see Vector_Data_NOTES_2000-2005.txt for details), units=Watts per metre squared    Value	HCOMBEM	Empirical sensible heat vector combined (see Vector_Data_NOTES_2000-2005.txt for details), units=Watts per metre squared		
HVCOMBEM Empirical virtual sensible heat vector combined (see Vector_Data_NOTES_2000-2005.txt for details), units=Watts per metre squared    Value				
HVCOMBEM Empirical virtual sensible heat vector combined (see Vector_Data_NOTES_2000-2005.txt for details), units=Watts per metre squared    Value				
Value   Label     9999   No Data		9999	No Data	
9999   No Data	HVCOMBEM	Empirical virtual sensible heat vector combined (see Vector_Data_NOTES_2000-2005.txt for details), units=Watts per metre squared		
9999   No Data		Value	Label	
Value Label				
Value Label				
	HVUNFEM	Empirical unfiltere	ed virtual sensible heat vector (see Vector_Data_NOTES_2000-2005.txt for details), units=Watts per metre squared	
		Value	I ahel	
		[]·		