

ESSL Technical Report No. 2009-01

ESSL European Severe Storms Laboratory e.V.

European Severe Weather Database

ESWD



Data format description

Version 01.40-CSV

As of: 22/01/2009

Revision: [1]

	ESSL – European Severe Storms Laboratory e.V.				
	Dissemination Level				
PU	Public	X			
РО	Restricted to members and partner organizations (including the Advisory Council)				
RE	Restricted to a group specified by the Executive Board (including the Advisory Council)				
CO	Confidential, only for members of the Executive Board (including the Advisory Council)				

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ESWD project web site:

http://www.essl.org/projects/ESWD/

ESWD database web site:

http://www.essl.org/ESWD/ or http://www.eswd.eu

ESWD data format description:

http://www.essl.org/reports/tec/ESSL-tech-rep-2009-01.pdf (this document)

http://www.essl.org/reports/tec/ESSL-tech-rep-2006-01.pdf (original format)

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ESWD data format, version 01.40-CSV

1. General remarks

The database format is designed for the documentation of severe weather occurrence in Europe. The current version primarily deals with severe events associated with deep, moist convection and can be expanded in future to encompass more types of severe weather.

1.1. Recording events vs. recording observations

The format is generally *observation-based*. This means that it is designed to handle observations rather than *events*. For example, when multiple reports of a hailstorm are received, all should be recorded in the database rather than combining them in one record. In this way, the amount of subjectivity that can be added by the managers of the database is minimized. The concept behind is that most interpretation of the data is left to the researchers who want to use them. The general rule therefore is:

"Each observation gets its own record in the database..."

Exceptions to this rule are made in case of *TORNADOES* (or waterspouts), *GUSTNADOES*, *FUNNELS*, and *DEVILS*. These are phenomena that can better be described per event than per observation. In these cases observations are combined in one record if they concern the same weather event.

"...except when observations address the same tornado (or waterspout), gustnado, funnel or devil."

If no evidence is present that two reports address the same event, the two reports should be retained separately. When two tornado or waterspout reports are closer than 5 kilometres in place and 30 minutes in time, it will likely be reports of the same tornado or waterspout, so that they can be merged into one database record. When there are indications that the reports indeed concern two separate events, they should not be merged. Any merging of reports should be documented in the INFO group.

1.2. Merging of multiple reports of different events

In cases with more than one *TORNADO*, *GUSTNADO*, *FUNNEL*, or *DEVIL* vortex occurring, these may be merged into one report. This can be done, for example, when a number of waterspouts are observed at the same time, while no specific information about each of the waterspouts is known. The following conditions must be satisfied for multiple events to be combined into one record:

- the events are less than 30 minutes separated in time,
- the events are less than 5 kilometres away from each other
- there is no information available about each individual event, but only for the set of events.

2. Severe weather types: Definitions

The types of severe weather covered by this version of the data format are:

DEVIL - dust- or sand devil (land devil) or steam devil (water devil)

A vortex not associated with a convective storm, typically between a few metres to a few tens of metres in diameter, extending upward from the earth's surface but not reaching any cloud, visible by material that is lifted off the earth's surface or by water droplets.

Remark: Devils (lesser whirlwinds) result from temperature differences between the surface and the air above. Whirls in the lee of objects, which may meet the criteria above are dynamically driven and are not considered devils.

FUNNEL - funnel cloud

A vortex, typically between a few metres to a few tens of metres in diameter, extending downward from a convective cloud but not reaching the earth's surface, that is visible by condensation of water vapour, normally having a cone or tube shape.

Remark: Funnel clouds and weak tornadoes can be easily confused if the tornado funnel does not fully extend to the ground, e.g. due to lack of boundary-layer moisture. If there is any evidence that the vortex had ground contact, the event should be reported as a tornado.

GUSTNADO - gust front vortex (gustnado)

A vortex occurring along the gust front of a convective storm and being visible by material that is lifted off the earth's surface, typically between a few metres to a few tens of metres in diameter, extending from the earth's surface upward but not extending to a cloud.

HAIL - severe hailfall

Hailstones observed having a diameter (in the longest direction) of 2.0 centimetres or more, or smaller hailstones that form a layer of 2.0 centimetres thickness or more on flat parts of the earth's surface.

Remark: The hailstones of a hail layer should not have been accumulated because of transport by water, wind or by any other means.

PRECIP - heavy precipitation

Damage caused by excessive precipitation is observed, or no damage is observed but precipitation amounts exceptional for the region in question have been recorded, or one of the following limits of precipitation accumulation is exceeded: 30 mm in 1 hour, 60 mm in 6 hours, 90 mm in 12 hours, 150 mm in 24 hours.

TORNADO - tornado, waterspout

A vortex, typically between a few metres to a few kilometres in diameter, extending between a convective cloud and the earth's surface, which may be visible by condensation of water vapour or by material (e.g. dust or water) being lifted off the earth's surface.

WIND - severe wind gust

Measured wind speeds of 25 m/s or higher, or wind damage inflicted by winds that were likely stronger than 25 m/s.

3. Structure of the data format

The structure of the data format can be summarized by the following hierarchy:

FILES contain a header line, followed by a set of RECORDS that contain a string of FIELDS

The data format is compatible with the csv (comma-separated values) standard, although there exists no formal specification of this standard. That is, ESWD-csv is a particular type of csv.

3.1. Files and records

- A database file consists of a number of records preceded by a header line.
- The file must be encoded in UTF-8 encoding (Unicode standard).
- Each record contains information about one event or various events of the same type that occurred simultaneously at the approximately same place and time.
- Records are separated by new line characters

3.2. Records and fields

- A record consists of several fields
- A field contains one physical quantity or one characteristic of an event (see Section).
- Fields of a record are separated by the separation character comma (",") excluding the last element of the line
- Fields may contain a comma, which in that case is enclosed in double quotation marks
- An entry may contain newlines in which case the whole entry is enclosed in quotation marks
- Any white-spaces at the start of a line, just after a separating comma, just before a separating comma, or just before a newline character are ignored.
- An entry may contain a double quote, but it must be stored as its HTML-encoded equivalent: "
- Fields can be *required* (req.) or *optional* (opt.). *Required* means that if the field is left empty, the data do not comply with the data format, which may cause errors in decoding. Events of which required information is not available must not be present in a data file. In case *optional* information is not available, the respective field should be left empty. Optional information should be given when available. Entering the number 0 indicates that the value of a field is zero, not that no information is available.

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3.3. Field formats

Fields can contain data in the following formats. It is important to comply with this to ensure that the decoding be carried out without errors.

varchar2(n)	Variable length character string having maximum length <i>n</i> bytes.		
number	Floating point number		
number(n)	Number with precision <i>n</i>		
date	Valid date range, represented as YYYY-MM-DD HH:mm:SS		

Fields can be *optional* (opt), *recommended* (**rec**) or *required* (**req**).

Optional fields may be left empty without any consequence.

Where recommended fields are left empty, essential information is missing and the report is probably not useful for scientific analysis. However, software designed to work with the data format should be able to work with this data without producing errors.

Required fields may not be left empty, as this constitutes a violation of the data format specifications and the software will not be able to parse the data. The term "required" corresponds with the requirement "NOT NULL" which some databases use, e.g., Oracle.

4. Description of the fields

field number name	type/required?	description				
1 ID	number/ req	The report's ID number in the ESWD database at ESSL. Although, this is a required field, when importing new data into the ESWD, this field may be left empty as the database will assign this number automatically.				
2 QC_LEVEL	varchar2(3)/ req	<pre> One of the following: QC0 as received, or already plausibilit checked QC1 confirmed report QC2 event fully verified (usage of QC2 is restricted to ESSL and cooperating NHMSs) </pre>				
3 INFO_SOURCE	number/ rec	a number representing the sources of the information contained in the report. It is calculated by adding the numbers listed below of the sources that apply 1 information from a newspaper 2 a report on a website 4 a report received by e-mail 8 a television or radio broadcast 16 a report by a weather service 32 a report by a trained spotter 64 a report in scientific literature 128 a report in other literature 256 an eye-witness report 512 an eye-witness report of the damage 1024 a photo or video of the event 2048 photo or video of the damage 4096 a damage survey by a severe weather				
4 CONTACT	varchar2(200)/re	ec Name and other contact information				
5 E-MAIL	varchar2(100)/ r e	ec The e-mail address of the contact person				
6 NO_REVISION	number/ req	an integer representing the number of revision of the entry, where 1 means the submission to the database				
, LEVON_KEATS	varchar2(255)/op	opt person or organization performing the last revision of the report				

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8	TIME_EV	ENT	date/ req	time (GMT/UTC) of the event in the YYYY-MM-DD HH:mm:SS	format:	
9	TIME_CR	EATION	r			
			date/ req	time (GMT/UTC) the report was subm the database: YYYY-MM-DD HH:mm:SS	itted to	
10	TIME_LA	ST_REV	ISION			
			date/ req	time (GMT/UTC) of the report's las YYYY-MM-DD HH:mm:SS	t revision:	
11	TIME AC	CURACY				
	—		varchar2(50)/opt			
				estimate of accuracy of the time given in field 8. 1M 1 minute 5M 5 minutes 15M 15 minutes 1H 1 hour 3H 3 hours 6H 6 hours 12H 12 hours 1D 1 day GT1D date not certain		
12	COUNTRY		varchar2(2)/ req			
			· · · -	two-character country code (upper case, see Appendix 1)		
13	STATE		varchar2(5)/opt	national code for state/province These codes are to be determined na	ationally.	
14	PLACE		varchar2(255)/re	c		
				name of nearest town/settlement/ observing station		
15	DETAILE	D LOCA	TION			
-			varchar(4000)/op	t		
16	NEAREST	י רידיע		a more detailed description of the location	event's	
10	ninini i	_0111	varchar(255)/opt			
				location in words (preferably w/ respect to the nearest larger city (e.g. 5 km S of Amsterdam, 10 km S of Stuttgart, near Basle)) SE	
17	LATITUD	ΡĒ	number/ rec	decimal degrees north (+)/south (- (e.g. 50.0000 instead of 50°00'00")	
18	LONGITU	DE	number/ rec	decimal degrees, west(-)/east(+)		

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19 OROGRAPHY number(6)/opt

a number represe	enting the type of topography,			
i.e. the sum of	those types that apply			
1 FLAT	flat, definition: local			
	terrain height variation			
	<= 50 m			
2 HILLS	hilly, definition: local			
	terrain height variation			
	> 50 m and <= 500 m			
4 MTS	mountainous, definition:			
	local terrain height			
	variation > 500 m			

20 SURFACE_INITIAL_LOCATION

varchar(255)/opt

charac	ter of earth's surface at the initial
event	location. one of the words below:
LAND	land, not specified
WATER	water, not specified
RURAL	rural (crops, grassland, both
	or unknown)
CROPS	rural, crops.
GRASS	rural, grassland (pastures)
SAND	<pre>sand, (semi-)desert, beach,</pre>
	soil covered with very little
	vegetation)
WILD	wilderness (steppe, dunes,
	soil covered with some
	vegetation)
SWAMP	swamp
ROCKS	rocks
URBAN	urban, built-up zone
FORESI	forest
ICE	ice (Glacier or ice-covered
	water)
RIVER	river, canal
SEA	sea, ocean
LAKE	lake

21 SURFACE_CROSSED

number(6)/opt a number representing all types of surface crossed by the feature. I.e. the sum of all numbers associated with the types of land surface that apply:

110 0	arrace er	ac appin
1	LAND	land, not specified
2	WATER	water, not specified
4	RURAL	rural (crops, grassland, both
		or unknown)
8	CROPS	rural, crops.
16	GRASS	rural, grassland (pastures)
32	SAND	<pre>sand, (semi-)desert, beach,</pre>
		soil covered with very little
		vegetation)
64	WILD	wilderness (steppe, dunes,
		soil covered with some
		vegetation)
128	SWAMP	swamp
256	ROCKS	rocks

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V 0	1.40-CSV	ESV	VD data form 512	nat specific URBAN	ation urban,	ESSL Tech. Rep. 2009-01 built-up zone
			1024 2048	ICE	ice (G water)	lacier or ice-covered
			4096 8192 16384	RIVER SEA LAKE	river, sea, oo lake	canal cean
22	TYPE_EVENT	varchar2(255)/1	req the typ DEVIL FUNNEL GUSTNAD HAIL PRECIP TORNADO WIND	e of eve	nt. One	of the following:
23	NO_OBJECTS	number/opt	the num the con When le	the number of events when occurring within the constraints specified in section 1.2 When left empty, 1 is implied.		
24	MAX_HAIL_DIA	METER number/opt	size of its lon	size of the largest hailstone found in its longest direction in centimetres		
25	MAX_HAILSTON	E_WEIGHT number/opt	height weight of a single hailstone in grams			
26	AVERAGE_HAIL	DIAMETER number/opt	size of one of the larger hailstones measured in an arbitrary direction in centimetres			
27	THICKNESS_HA	IL_LAYER number/opt	in cent	imetres		
28	HAILSTONE	number(6)/opt	a numbe the hai numbers applica 1 2 4 8 16 32 64	r repres lstones, listed ble prop AGGR CLEAR CONE OBLATE POROUS RINGS SPIKES	enting i.e. the below as erties of aggrega (aggrega (aggrega in air clear a cone-sh oblate porous stones rings of spiky a	the characteristics of he sum of the ssociated with of the hailstone. ates observed gates formed while) ice haped hail stones ("squeezed ball") (white ice) hail of white and clear ice stones observed
29	F_SCALE	number/opt	maximum on the TORNADO	intensi Fujita-s , WIND	ty of t cale fo	ne event r DEVIL, GUSTNADO,
30	T_SCALE	number/opt	maximum on the WIND	intensi T-scale	ty of t for DEV	he event IL, GUSTNADO, TORNADO,

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31 RATING_BASIS number/opt a number representing all types of information used for establishing the F or T-scale rating. I.e. the sum of all numbers listed below, that are associated with the types of information used: 1 DMGEYEWTN an eye-witness report of the inflicted damage 2 DMGSVY a damage survey by a severe weather expert 4 DMGPHOTO photograph(s)/video footage of the inflicted damage 8 DMGTEXT a written account of the damage (e.g. in a newspaper) 16 WIND a measured wind speed strongest measured wind speed 32 WIND SPEED number/opt (at the event location and event time) 33 TEN_MIN_WIND_SPEED number/opt strongest measured 10 minute averaged wind speed (at the event location and event time) 34 FUNNEL_SIGHTED varchar2(255)/opt Was the a funnel cloud of the tornado observed visually (not necessarily reaching the ground)? one of the following: FNLOBS funnel observed NOFNLOBS funnel not observed 35 SUCTION_VORTICES varchar2(255)/opt Have embedded suction vortices been observed? I.e. is this a confirmed that multiple-vortex tornado? one of the following: suction vortices observed SVTCSOBS NOSVTCSOBS no suction vortices observed **36 PRECIPITATION AMOUNT** in millimetres (when measured) number/opt 37 MAX_6_HOUR_PRECIP (during the 0-6, 6-12, 12-18, or 18-0 UTC number/opt interval in which the time given in group

TIME&PLACE falls. If the time given is exactly 0, 6, 12 or 18 UTC, the previous 6 hour period is meant) in millimetres

<pre>1</pre>	V01 38	.40-CSV MAX 12 HOUR	ESW	D data format specification		ESSL Tech. Rep. 2009-01	
<pre>39 MAX_24_HOUR_PRECIP</pre>		~ _	number/opt	(during the time the time the prev in milli	the 0-12 e given : given : vious 12 metres	2, 12-0 UTC i in group TIME is exactly 0, -hour period	nterval in which &PLACE falls. If or 12 UTC, is meant)
<pre>number/opt (during the 0-24 UTC interval in which the time given in group TIMEQUACE falls. the time given is exactly 0 UTC, the previous 24-hour period is meant) in millimetres 40 CONVECTIVE varchar(255)/opt Was the precipitation due to deep moist convection? One of the following: CONV convective PARTLYCONV partly convective NONCONV nonconvective UNCERTAIN a blank field implies thi has not been determined 41 TOTAL_DURATION number/opt rec if field 36 is not null duration of accumulation of the amount mentioned in field 36 42 TYPE_PRECIP number(6)/opt Should not be set with type PRECIP. A number representing the combination of accompanying weather phenomena. The number is the sum of all numbers list below that apply. Accompanying weather phenomena are those that are known to hay occurred within 5 minutes of the event ti and within 3 kilometres distance of the event location. As a confirmation that no of those events occurred, the number 256 is given. 1 HRAIN heavy rain 2 LRAIN light or moderate rain 4 LGHAIL hail < 2.0 cm in diameter 8 HAIL hail < 0.5 cm in diameter 32 HENOW heavy snow 64 LSNOW light or moderate snow 128 DUST dust or sand particles ra </pre>	39	MAX_24_HOUR_	PRECIP				
<pre>40 CONVECTIVE varchar(255)/opt</pre>			number/opt	(during the 0-24 UTC interval in which the time given in group TIME&PLACE falls. If the time given is exactly 0 UTC, the previous 24-hour period is meant) in millimetres			l in which &PLACE falls. If UTC, is meant)
<pre>Was the precipitation due to deep moist convection? One of the following: CONV convective PARTLYCONV partly convective NONCONV nonconvective UNCERTAIN a blank field implies thi has not been determined 41 TOTAL_DURATION number/opt rec if field 36 is not null duration of accumulation of the amount mentioned in field 36 42 TYPE_PRECIP number(6)/opt Should not be set with type PRECIP. A number representing the combination of accompanying weather phenomena. The number is the sum of all numbers list below that apply. Accompanying weather phenomena are those that are known to hav occurred within 5 minutes of the event ti and within 3 kilometres distance of the event location. As a confirmation that no of those events occurred, the number 256 is given. 1 HRAIN heavy rain 2 LEANIN light or moderate rain 4 LGHAIL hail >= 2.0 cm in diameter snow pellets or snow grai 32 HSNOW heavy snow 64 LSNOW light or moderate snow 128 DUST dust or sand particles ra</pre>	40	CONVECTIVE	varchar(255)/opt	5			
<pre>41 TOTAL_DURATION number/opt rec if field 36 is not null duration of accumulation of the amount mentioned in field 36 42 TYPE_PRECIP number(6)/opt Should not be set with type PRECIP. A number representing the combination of accompanying weather phenomena. The number is the sum of all numbers list below that apply. Accompanying weather phenomena are those that are known to hav occurred within 5 minutes of the event ti and within 3 kilometres distance of the event location. As a confirmation that no of those events occurred, the number 256 is given. 1 HRAIN heavy rain 2 LRAIN light or moderate rain 4 LGHAIL hail >= 2.0 cm in diameter 8 HAIL hail <= 2.0 cm, but >= 0.5</pre>				Was the moist co One of t CONV PARTLYCC NONCONV UNCERTAL	precipit prvection the follo DNV	cation due to ? owing: convective partly conve nonconvectiv a blank fiel has not been	o deep ective re .d implies this a determined
<pre>number/opt rec if field 36 is not null duration of accumulation of the amount mentioned in field 36 42 TYPE_PRECIP number(6)/opt A number representing the combination of accompanying weather phenomena. The number is the sum of all numbers list below that apply. Accompanying weather phenomena are those that are known to hav occurred within 5 minutes of the event ti and within 3 kilometres distance of the event location. As a confirmation that no of those events occurred, the number 256 is given. 1 HRAIN heavy rain 2 IRAIN light or moderate rain 4 IGHAIL hail >= 2.0 cm in diameter 8 HAIL hail < 2.0 cm, but >= 0.5 in diameter 16 GRAINS hail < 0.5 cm in diameter 32 HSNOW heavy snow 64 LSNOW light or moderate snow 128 DUST dust or sand particles ra </pre>	41	TOTAL_DURATI	ON				
<pre>42 TYPE_PRECIP number(6)/opt A number representing the combination of accompanying weather phenomena. The number is the sum of all numbers list below that apply. Accompanying weather phenomena are those that are known to hav occurred within 5 minutes of the event ti and within 3 kilometres distance of the event location. As a confirmation that no of those events occurred, the number 256 is given. 1 HRAIN heavy rain 2 LRAIN light or moderate rain 4 LGHAIL hail >= 2.0 cm in diameter 8 HAIL hail < 2.0 cm, but >= 0.5 in diameter 16 GRAINS hail < 0.5 cm in diameter 32 HSNOW heavy snow 64 LSNOW light or moderate snow 128 DUST dust or sand particles rai </pre>			number/opt rec if field 36	is not r duratior mentione	null n of accu ed in fie	umulation of eld 36	the amount
by the wind, reducing visibility 256 DRY no dust or precipitation	42	TYPE_PRECIP	number(6)/opt	Should r A number accompar The numk below th phenomer occurred and with event lo of those is giver 1 2 4 8 16 32 64 128	not be set represent oper is the nat apply na are the within 3 kill ocation. e events n. HRAIN LGHAIL HAIL GRAINS HSNOW LSNOW DUST	et with type enting the co ather phenome he sum of all y. Accompanyi hose that are 5 minutes of lometres dist As a confirm occurred, th heavy rain light or mod hail >= 2.0 hail < 2.0 c in diameter hail < 0.5 c snow pellets heavy snow light or mod dust or sand by the wind, visibility no dust or p	PRECIP. ombination of ena. numbers listed ng weather e known to have the event time cance of the mation that none he number 256 lerate rain cm in diameter em, but >= 0.5 cm em in diameter, s or snow grains lerate snow l particles raised reducing

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43 SIZE_ACCOMPANYING_HAIL number/opt

if LGHAIL or HAIL was reported in field 42, hail size in cm. otherwise this field should be left empty. In case LGHAIL was selected, the hail deserves a report of its own.

44 POSSIBILITIES

number(6)/opt

A number indicating whether there are doubts about the nature of the event causing wind damage. I.e. this filed should only contain information when the event is reported as a TORNADO, DEVIL, WIND, or GUSTNADO. The number is the sum of the applicable numbers listed here: **1 POSSGUSTNADO**

It is **possible** that the wind damage is caused by a **gustnado**, but there is not enough evidence to confirm this. (please provide information in event description field 23)

2 POSSDEVIL

It is **possible** that the wind damage is caused by a **devil**, but there is not enough evidence to confirm this. (please provide information in event description field, field 55)

4 POSSTORNADO

It is **possible** that the wind damage is caused by a **tornado**, but there is not enough evidence to confirm this. (please provide information in event description field , field 55)

45 PATH_LENGTH number/opt

Path length in km. This field must not contain information when the event is PRECIP or FUNNEL.

46 MEAN_PATH_WIDTH

number/opt

Mean path width in m. This field must not contain information when the event is PRECIP or FUNNEL.

47 MAX_PATH_WIDTH

number/opt

Maximal path width in m. This field must not contain information when the event is PRECIP or FUNNEL.

48 MAX_VERTICAL_DEVELOP

number/opt

Vertical development of a funnel cloud in percentage of the distance between cloud base and the earth's surface. Only given for event type FUNNEL.

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49	DIRECTION_MOV	VEMENT			
		varchar(255)/opt	direction of movement of the (from-to) N-S, NNE-SSW, NE-S	e phenomenon 3W etc.	
50	PROPERTY_DAM	AGE			
		varchar(255)/opt	quantitative measure of dama excluding agricultural losse the losses expressed in a cu	age to properties es. Preferably arrency.	
51	CROP_FORREST	_DAMAGE			
		varchar(255)/opt	quantitative measure of agri including for example losses currency.	cultural losses, expressed in a	
52	TOTAL_DAMAGE				
		varchar(255)/opt	quantitative measure of tota damage, preferably the losse a currency.	al inflicted es expressed in	
53	NO_INJURED	number(10)/opt	number of injured persons		
54	NO_KILLED	number(10)/opt	number of killed people		
55	EVENT_DESCRI	PTION			
		varchar(4000)/op	et a description of the event, its most essential aspects	containing the	
56	CREATOR_ID	varchar(50)/opt	Identifier of the creator of	the report.	
57	REVISOR_ID	varchar(50)/opt	Identifier of the last revis	sor of the report.	
58	LINK_ORG	varchar(20)/opt	Identifier of the linked (na	tional) database.	
59	LINK_ID	varchar(20)/opt	Field nummer of the associat linked database.	ed report in a	
60	DELETED	varchar(1)/ req	Character indicating whether deleted. Y Yes N No. All retrieved data from the for synchronization purposes here.	the report is ESWD server not should have "N"	

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Appendix A: Two-character country codes

The two-character codes of countries in Europe, Mediterranean Africa and Asia, Jordan and the Caucasian countries (including WMO Region VI) are given in this list.

AD	Andorra	LI	Liechtenstein
AL	Albania	LT	Lithuania
AR	Armenia	LU	Luxembourg
AT	Austria	LV	Latvia
AZ	Azerbaijan	LY	Libya
BA	Bosnia and Herzegovina	MA	Morocco
BE	Belgium	MC	Monaco
BG	Bulgaria	MD	Republic of Moldova
BY	Belarus	ME	Montenegro
CH	Switzerland	MK	Former Yugoslav Republic of
CY	Cyprus		Macedonia
CZ	Czech Republic	MT	Malta
DE	Germany	NL	Netherlands
DK	Denmark	NO	Norway (incl. Svalbard and
DZ	Algeria		Jan Mayen Islands)
EE	Estonia	PL	Poland
EG	Egypt	PT	Portugal and Azores
ES	Spain	RO	Romania
FI	Finland	RS	Serbia and Kosovo
FR	France	RU	Russian Federation
GE	Georgia	SE	Sweden
GL	Greenland	SI	Slovenia
GR	Greece	SK	Slovakia
HR	Croatia	SM	San Marino
HU	Hungary	SY	Syria
IE	Ireland	TN	Tunisia
IL	Israel	TR	Turkey
IS	Iceland	UA	Ukraine
IT	Italy	UK	United Kingdom (incl. Channel
JO	Jordan		Islands, Gibraltar etc.)
KZ	Kazakhstan	VA	Vatican City State
LB	Lebanon		