

Additional Datasets

UN/LOCODES

matching

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Table of contents

Introduction	2
UN/LOCODE matching	2
Data Design	3
GPC-POST-UNLOCODES-NORM-WO.csv	3
Structure	3
Sample	5
GPC-POST-UNLOCODES-NEAREST-NORM-WO.csv	5
Structure	5
Sample	6
GPC-UNLOCODES-WO.csv	7
Structure	7
Sample	12

Introduction

This document focuses on the UN/LOCODE matching complementing GeoPostcodes's postal and street databases. For more information about the core products, please refer to their product sheets.

UN/LOCODE matching

United Nations maintain [UN/LOCODE](#), geocodes for locations mainly used in the transport sector.

GeoPostcodes has built a dataset matching the UN/LOCODE codes to GeoPostcodes's places and regions IDs delivered in the normalized structure.

The UN/LOCODE matching to GeoPostcodes data is bi-directional:

1. UN/LOCODE identifiers are matched to the GeoPostcodes places and region IDs in the file GPC-POST-UNLOCODES-NORM-WO.csv
 - a. This file contains one single entry per matched UN/LOCODE
 - b. Several different UN/LOCODE can be linked to the same GeoPostcodes place
2. The GeoPostcodes places are linked to the closest UN/LOCODE within the same country, in the file GPC-POST-UNLOCODES-NEAREST-NORM-WO.csv
 - a. This file contains a single entry per GeoPostcodes place ID
 - b. Several different GeoPostcodes Places can be linked to the same UN/LOCODE

In addition, GeoPostcodes provides a cleaned version of the original UN/LOCODE dataset, where country codes, IATA codes and coordinate corrections are presented next to the original UN/LOCODE data.

Data Design

GPC-POST-UNLOCODES-NORM-WO.csv

Table indicating which GeoPostcodes locality each UN/LOCODE corresponds to. Note that we include all UN/LOCODEs in the table, even the few we could not match to GeoPostcodes's data. In that case the PPlace_id field is NULL.

Structure

The data is delivered as a csv file (semicolon separator), with the following fields:

Field name	Field type	Description	Comments
ISO	Char(2)	ISO 3166-1 Country code	The ISO 3166-1 standard is published by the International Organization for Standardization (ISO) and defines a unique code for the name of each country. The country codes are represented as a two-letter code (alpha-2).
locode	Char(3)	UN/LOCODE	UN/LOCODE identifier (last 3 characters, omitting the ISO3166-1 country code prefix)
place_id	Integer	Record identifier in the Places table	ID of the GeoPostcodes record, in NORMALIZED PLACES table, matching to the UN/LOCODE. In case the matching primarily occurred on a

			REGION, the ID of the primary locality within that region is given as place_id.
suburb_id	Integer	Record identifier in the Suburbs table	ID of the GeoPostcodes record, in NORMALIZED SUBURBS table, matching to the UN/LOCODE. Only filled when the UN/LOCODE should be matched to a suburb instead of a locality.
region_id	Integer	Record identifier in the Regions table	ID of the GeoPostcodes record, in NORMALIZED REGIONS table, matching to the UN/LOCODE. Only filled when the UN/LOCODE should be matched to a region instead of a locality.
gpc_remark	Char(40)	Indication of the optimal match level	NULL when the UN/LOCODE matches directly on a PLACE, “UN/LOCODE first matched to a region” when it should be matched to a region, “UN/LOCODE first matched to a suburb” when the UN/LOCODE should be matched to a suburb.

Sample

ABC iso	ABC location	123 place_id	123 suburb_id	123 region_id	ABC gpc_remark
AD	ALV	2	[NULL]	[NULL]	[NULL]
AD	CAN	4	[NULL]	[NULL]	[NULL]
AD	EAC	24	[NULL]	[NULL]	[NULL]
AD	ENC	16	[NULL]	[NULL]	[NULL]
AD	ESC	20	[NULL]	20,000,005	UN/LOCODE first matched to a region
AD	FMO	[NULL]	[NULL]	[NULL]	[NULL]
AD	LMA	26	[NULL]	[NULL]	[NULL]
AD	ORD	35	[NULL]	[NULL]	[NULL]
AD	PAS	18	[NULL]	[NULL]	[NULL]
AD	SCO	3	[NULL]	[NULL]	[NULL]
AD	SJL	47	[NULL]	[NULL]	[NULL]

GPC-POST-UNLOCODES-NEAREST-NORM-WO.csv

Table indicating the nearest UN/LOCODE, within the same country, to each GeoPostcodes PLACE.

Structure

The data is delivered as a csv file (semicolon separator), with the following fields:

Field name	Field type	Description	Comments
ISO	Char(2)	ISO 3166-1 Country code	The ISO 3166-1 standard is published by the International Organization for Standardization (ISO) and defines a unique code for the name of each country. The country codes are represented as a two-letter code (alpha-2).

place_id	Integer	Record identifier in the Places or Regions table	ID of the GeoPostcodes record, in the Places table
locode	Char(3)	UN/LOCODE	UN/LOCODE identifier (last 3 characters, omitting the ISO3166-1 country code prefix) of the nearest location to the GeoPostcodes place

Sample

iso	place_id	locode
AD	20	ALV
AD	2	ALV
AD	60,586,869	ALV
AD	60,586,868	ALV
AD	11	CAN
AD	10	CAN
AD	4	CAN
AD	5	CAN
AD	6	CAN
AD	7	CAN
AD	9	CAN
AD	8	CAN
AD	12	CAN
AD	13	CAN
AD	14	CAN
AD	24	EAC
AD	29	EAC

GPC-UNLOCODES-WO.csv

Table gathering the original UN/LOCODE data along with suggested corrections from GeoPostcodes.

Structure

The data is delivered as a csv file (semicolon separator), with the following fields (the original fields from UN/LOCODE are marked in [light blue](#), feel free to [refer to their documentation for more information](#)):

Field name	Field type	Description	Comments
ISO	Char(2)	ISO 3166-1 Country code	The ISO 3166-1 standard is published by the International Organization for Standardization (ISO) and defines a unique code for the name of each country. The country codes are represented as a two-letter code (alpha-2).
location	Char(3)	UN/LOCODE	UN/LOCODE identifier (last 3 characters, omitting the ISO3166-1 country code prefix) of the nearest location to the GeoPostcodes place
name	Char(80)	Location name	Name of the location

namewodiacritics	Char(80)	Location name, simplified alphabet	Name of the location, without accents
subdivision	Char(3)	Country subdivision	Subdivision identifier according to the ISO 3166-2/1998 standard
function	Char(10)	Type of location	<ul style="list-style-type: none"> - A value "0" in the first position specifies that the functional use of a location is not known and is to be specified. - 1 Specifies that the location is a Port, as defined in UN/ECE Recommendation 16. - 2 Specifies that the location is a Rail terminal. - 3 Specifies that the location is a Road terminal. - 4 Specifies that the location is an Airport. - 5 Specifies that the location is a Postal exchange office. - 6 Value reserved for multimodal functions, ICDs etc. - 7 Value reserved for fixed transport functions (e.g. oil platform). - B Specifies that the location is Border crossing.

status	Char(2)	Status of the UN/LOCODE entry	<ul style="list-style-type: none"> - AA: Approved by competent national government agency - AC: Approved by Customs Authority - AF: Approved by national facilitation body - AI: Code adopted by international organisation (IATA or ECLAC) - AS: Approved by national standardisation body - RL: Recognised location - Existence and representation of location name confirmed by check against nominated gazetteer or other reference work - RN: Request from credible national sources for locations in their own country - RQ: Request under consideration - RR: Request rejected - QQ: Original entry not verified since date indicated - XX: Entry that will be removed from the next issue of UN/LOCODE
date	Char(4)	Modification date	Last modification date (YYMM)

iata	Char(3)	IATA code	IATA airport code related to the location, if different from the location code
coordinates	Char(15)	Latitude and longitude	Format is: <ul style="list-style-type: none"> - 2 digits for latitude degrees - 2 digits for latitude minutes - 1 Letter (N or S) to indicate North or South - 1 space - 3 digits for longitude minutes - 2 digits for longitude seconds - 1 letter (E or W) to indicate East or West
remarks	Char(60)	Remarks	
latitude	Double	Latitude	Latitude extracted from the coordinates column, in decimal format
longitude	Double	Longitude	Longitude extracted from the coordinates column, in decimal format
gpc_latitude	Double	Latitude	Latitude suggested by GeoPostcodes. Note that when the location was matched to a GeoPostcodes's PLACE, its latitude is automatically suggested.

gpc_longitude	Double	Longitude	Longitude suggested by GeoPostcodes. Note that when the location was matched to a GeoPostcodes's PLACE, its longitude is automatically suggested.
gpc_iata	Char(3)	IATA code	IATA code suggested by GeoPostcodes. NULL when no IATA code should be associated (which is also a form of correction)
gpc_iso	Char(2)	ISO 3166-1 Country code	Suggested country code from GeoPostcodes
gpc_changes	Integer	GeoPostcodes change indicator	Change is indicated on a 3-bit format: <ul style="list-style-type: none"> - first bit, leading to values ≥ 4 when activated, indicates the introduction of coordinates or a suggested change longer than 1km - second bit, leading to values 2, 3, 6 and 7 when activated, indicates a change in the IATA code - third bit, leading to values 1, 3, 5 and 7 when activated, indicates a change in the country ISO code - consequently, when gpc_change is 0, it means GeoPostcodes does not suggest to modify the original UNLOCODE values for country code, IATA code, nor coordinates.

In all other cases, GeoPostcodes suggests at least one modification among those fields.

Sample

iso	location	name	namewodiacr	subdivision	function	status	dat	lat	coordinate	remarks	lat2	longitude2	gpc_latitude	gpc_longitude	gpc_lat	gpc_iso	gpc_changes
CA	AKV	Akulivik Apt	Akulivik Apt	QC	--34----	RL	0901	[NULL]	6049N 07808W	[NULL]	60.816667	-78.133333	60.81768	-78.14424	AKV	[NULL]	0
CA	ALD	Alexander	Alexander	MB	--3-----	RL	1301	[NULL]	4949N 10018W	[NULL]	49.816667	-100.3	49.8298	-100.29376	[NULL]	[NULL]	4
CA	ALE	Allardville	Allardville	NB	--3-----	RL	1801	[NULL]	4728N 06529W	[NULL]	47.466667	-65.483333	47.47477	-65.49242	[NULL]	[NULL]	4
CA	ALF	Alfred	Alfred	ON	--2-----	RL	0101	[NULL]	4533N 07452W	[NULL]	45.55	-74.866667	45.55803	-74.8829	[NULL]	[NULL]	4
CA	ALH	Alhambra	Alhambra	AB	--23-----	RL	0607	[NULL]	5222N 11440W	[NULL]	52.366667	-114.666667	52.34098	-114.67343	[NULL]	[NULL]	4
CA	ALI	Alix	Alix	AB	--3-----	RL	0507	[NULL]	5224N 11311W	[NULL]	52.4	-113.183333	52.39737	-113.18765	[NULL]	[NULL]	4
CA	ALK	Adlavik	Adlavik	NL	1-3-----	AS	0501	[NULL]	5455N 05855W	[NULL]	54.916667	-58.916667	54.91667	-58.91667	[NULL]	[NULL]	4
CA	ALL	Allanburg	Allanburg	ON	--3-----	RL	0901	[NULL]	4304N 07912W	[NULL]	43.066667	-79.2	43.07541	-79.20834	[NULL]	[NULL]	4
CA	ALM	Alma	Alma	ON	--3-----	RL	0901	[NULL]	4343N 08030W	[NULL]	43.716667	-80.5	43.73013	-80.50222	[NULL]	[NULL]	4
CA	ALN	Allan	Allan	SK	--23-----	RL	0507	[NULL]	5154N 10604W	[NULL]	51.9	-106.066667	51.89703	-106.06085	[NULL]	[NULL]	4
CA	ALO	L'Anse-au-Loup	L'Anse-au-Loup	NL	1-3-----	RL	0607	[NULL]	5131N 05650W	[NULL]	51.516667	-56.833333	51.52107	-56.83285	[NULL]	[NULL]	0
CA	ALP	Algonquin Park	Algonquin Park	ON	--3-----	RL	0901	[NULL]	4533N 07834W	[NULL]	45.55	-78.566667	45.55	-78.56667	[NULL]	[NULL]	0
CA	ALT	Alton	Alton	ON	--3-----	RL	0001	[NULL]	[NULL]	[NULL]	[NULL]	[NULL]	43.86035	-80.06875	[NULL]	[NULL]	4
CA	ALV	Atholville	Atholville	NB	123-----	RL	0701	[NULL]	4759N 06643W	[NULL]	47.983333	-66.716667	47.98895	-66.72056	[NULL]	[NULL]	4
CA	AMA	Alliston	Alliston	ON	--3-----	RQ	9501	[NULL]	[NULL]	[NULL]	[NULL]	[NULL]	44.15346	-79.86916	[NULL]	[NULL]	4
CA	AMB	Saint-Ambroise	Saint-Ambroise	QC	-----3	RQ	1101	[NULL]	4833N 07119W	[NULL]	48.55	-71.316667	48.55752	-71.32462	[NULL]	[NULL]	4
CA	AME	Armenia	Armenia	AB	--23-----	RL	0701	[NULL]	5307N 11257W	[NULL]	53.116667	-112.95	53.12232	-112.9492	[NULL]	[NULL]	4
CA	AMH	Amherstburg	Amherstburg	ON	1-----	AS	9506	[NULL]	[NULL]	[NULL]	[NULL]	[NULL]	42.10134	-83.10864	[NULL]	[NULL]	4
CA	AMN	Amherst	Amherst	NS	--23-----	RL	0207	XZK	4549N 06412W	[NULL]	45.816667	-64.2	45.83477	-64.21323	[NULL]	[NULL]	6
CA	AMQ	Amqui	Amqui	QC	-----3	RQ	0901	[NULL]	4828N 06726W	[NULL]	48.466667	-67.433333	48.46567	-67.43152	[NULL]	[NULL]	0
CA	AMR	Sainte-Angele-de-V	Sainte-Angele-de-M	QC	-----3	RL	1107	[NULL]	4831N 06804W	[NULL]	48.516667	-68.066667	48.52524	-68.07884	[NULL]	[NULL]	4
CA	AMT	Almonte	Almonte	ON	-----6	RL	0901	[NULL]	4513N 07612W	[NULL]	45.216667	-76.2	45.22605	-76.19453	[NULL]	[NULL]	4
CA	ANA	Saint-Anaclet	Saint-Anaclet	QC	-----3	RL	1601	[NULL]	4829N 06826W	[NULL]	48.483333	-68.433333	48.47757	-68.42298	[NULL]	[NULL]	0
CA	ANB	Andys Bay	Andys Bay	BC	1-----	AS	0001	[NULL]	[NULL]	[NULL]	[NULL]	[NULL]	[NULL]	[NULL]	[NULL]	[NULL]	0
CA	ANC	Ancaster	Ancaster	ON	--3-----	RL	9805	[NULL]	[NULL]	[NULL]	[NULL]	[NULL]	43.22569	-79.97669	[NULL]	[NULL]	4
CA	ANF	Anfield	Anfield	NB	--3-----	RL	1801	[NULL]	4655N 06730W	[NULL]	46.916667	-67.5	46.92128	-67.50752	[NULL]	[NULL]	4
CA	ANI	Annacis Island	Annacis Island	BC	--3-----	RQ	0201	[NULL]	4910N 12258W	[NULL]	49.166667	-122.966667	49.16667	-122.96667	[NULL]	[NULL]	4
CA	ANL	Anola	Anola	MB	--23-----	RL	0701	[NULL]	4952N 09639W	[NULL]	49.866667	-96.65	49.88526	-96.63726	[NULL]	[NULL]	4
CA	ANN	Asphodel-Nonwood	Asphodel-Nonwood	ON	--3-----	RL	1707	[NULL]	4421N 07800W	[NULL]	44.35	-78	44.34808	-77.9967	[NULL]	[NULL]	0
CA	ANP	Amprior	Amprior	ON	--3-----	RL	0201	[NULL]	4526N 07621W	[NULL]	45.433333	-76.35	45.43508	-76.35738	[NULL]	[NULL]	0
CA	ANT	Antigonish	Antigonish	NS	--3-----	RL	0207	[NULL]	4537N 06159W	[NULL]	45.616667	-61.983333	45.62136	-61.99049	[NULL]	[NULL]	4
CA	ANZ	Anzac	Anzac	AB	123-----	RL	0601	[NULL]	5626N 11102W	[NULL]	56.433333	-111.033333	56.45259	-111.04824	[NULL]	[NULL]	4
CA	APA	Napan	Napan	NB	--3-----	RL	1707	[NULL]	4653N 06530W	[NULL]	46.883333	-65.5	47.00364	-65.41746	[NULL]	[NULL]	4
CA	APH	Saint-Alphonse	Saint-Alphonse	[NULL]	-----3	RQ	1101	[NULL]	4518N 07247W	[NULL]	45.3	-72.783333	45.3	-72.783333	[NULL]	[NULL]	4
CA	API	Appin	Appin	ON	--3-----	RQ	0901	[NULL]	3853N 09020W	[NULL]	42.79622	-81.650668	42.79622	-81.65067	[NULL]	[NULL]	4
CA	APO	Apohaqui	Apohaqui	NB	--3-----	RL	1801	[NULL]	4542N 06535W	[NULL]	45.7	-65.583333	45.69835	-65.59417	[NULL]	[NULL]	4
CA	APT	Saint-Agapit	Saint-Agapit	QC	-----3	RL	1101	[NULL]	4633N 07126W	[NULL]	46.55	-71.433333	46.56287	-71.43517	[NULL]	[NULL]	4
CA	AQC	Saint-Ambroise-De	Saint-Ambroise-De	QC	-----3	RL	1601	[NULL]	4605N 07333W	[NULL]	46.083333	-73.55	46.07834	-73.55239	[NULL]	[NULL]	4
CA	AQP	Sambro	Sambro	NS	--3-----	RL	1401	[NULL]	4428N 06336W	[NULL]	44.466667	-63.6	44.47877	-63.60338	[NULL]	[NULL]	4
CA	AQW	Roseneath	Roseneath	PE	--3-----	RL	1501	[NULL]	4613N 06237W	[NULL]	46.216667	-62.616667	46.21667	-62.61667	[NULL]	[NULL]	4
CA	ARB	Arctic Bay	Arctic Bay	NU	1-34----	AS	0212	YAB	7302N 08510W	[NULL]	73.033333	-85.166667	73.03232	-85.16854	YAB	[NULL]	0