

Field	Term	Ontology ID	Definition	Guidance	Deprecated Label	Deprecated ID	Version Tracking		
							Label	ID	Description/Guidance
<div>IMPORTANT: Only labels and/or IDs will be deprecated, always with replacement version provided. If a term changes in its meaning, a new term will be created.</div>									
null values									
null values	Not Applicable	GENEPIO:0001619	A categorical choice recorded when a datum does not apply to a given context.				1.0.0	1.0.0	1.0.0
null values	Not Collected	GENEPIO:0001620	A categorical choice recorded when a datum was not measured or collected.				1.0.0	1.0.0	1.0.0
			A categorical choice recorded when a datum was collected but is not currently provided in the information being shared. This value indicates the information may be shared at the later stage.						
null values	Not Provided	GENEPIO:0001668					1.0.0	1.0.0	1.0.0
null values	Missing	GENEPIO:0001618	A categorical choice recorded when a datum is not included for an unknown reason.				1.0.0	1.0.0	1.0.0
null values	Restricted Access	GENEPIO:0001810	A categorical choice recorded when a given datum is available but not shared publicly because of information privacy concerns.				1.0.0	1.0.0	1.0.0
geo loc name (country)									
geo loc name (country)	Afghanistan	GAZ:00006882	A landlocked country that is located approximately in the center of Asia. It is bordered by Pakistan in the south and east Iran in the west, Turkmenistan, Uzbekistan and Tajikistan in the north, and China in the far northeast. Afghanistan is administratively divided into thirty-four (34) provinces (welayats). Each province is then divided into many provincial districts, and each district normally covers a city or several townships. [url:http://en.wikipedia.org/wiki/Afghanistan]				1.0.0	1.0.0	1.0.0
geo loc name (country)	Albania	GAZ:00002953	A country in South Eastern Europe. Albania is bordered by Greece to the south-east, Montenegro to the north, Kosovo to the northeast, and the Republic of Macedonia to the east. It has a coast on the Adriatic Sea to the west, and on the Ionian Sea to the southwest. From the Strait of Otranto, Albania is less than 100 km from Italy. Albania is divided into 12 administrative divisions called (Albanian: official qark/qarku, but often prefekturë/prefektura Counties), 36 districts (Rrethe) and 351 municipalities (Bashkia) and communes (Komuna). [url:http://en.wikipedia.org/wiki/Albania]				1.0.0	1.0.0	1.0.0
geo loc name (country)	Algeria	GAZ:00000563	A country in North Africa. It is bordered by Tunisia in the northeast, Libya in the east, Niger in the southeast, Mali and Mauritania in the southwest, a few km of the Western Sahara in the west, Morocco in the northwest, and the Mediterranean Sea in the north. It divided into 48 provinces (wilayas), 553 districts (dairas) and 1,541 municipalities (communes, baladiyachs). [url:http://en.wikipedia.org/wiki/Algeria]				1.0.0	1.0.0	1.0.0
geo loc name (country)	American Samoa	GAZ:00003957	An unincorporated territory of the United States located in the South Pacific Ocean, southeast of the sovereign State of Samoa. The main (largest and most populous) island is Tutuila, with the Manu'a Islands, Rose Atoll, and Swains Island also included in the territory. [url:http://en.wikipedia.org/wiki/American_Samoa]				1.0.0	1.0.0	1.0.0
geo loc name (country)	Andorra	GAZ:00002948	A small landlocked country in western Europe, located in the eastern Pyrenees mountains and bordered by Spain (Catalonia) and France. Andorra consists of seven communities known as parishes (Catalan: parroquies, singular - parroquia). Until relatively recently, it had only six parishes; the seventh, Escaldes-Engordany, was created in 1978. Some parishes have a further territorial subdivision. Ordino, La Massana and Sant Julia de Loria are subdivided into quarts (quarters), while Canillo is subdivided into veinats (neighborhoods). Those mostly coincide with villages, which are found in all parishes. [url:http://en.wikipedia.org/wiki/Andorra]				1.0.0	1.0.0	1.0.0
geo loc name (country)	Angola	GAZ:00001095	A country in south-central Africa bordering Namibia to the south, Democratic Republic of the Congo to the north, and Zambia to the east, and with a west coast along the Atlantic Ocean. The exclave province Cabinda has a border with the Republic of the Congo and the Democratic Republic of the Congo. [url:http://en.wikipedia.org/wiki/Angola]				1.0.0	1.0.0	1.0.0
geo loc name (country)	Anguilla	GAZ:00009159	A British overseas territory in the Caribbean, one of the most northerly of the Leeward Islands in the Lesser Antilles. It consists of the main island of Anguilla itself, approximately 26 km long by 5 km wide at its widest point, together with a number of much smaller islands and cays with no permanent population. [url:http://en.wikipedia.org/wiki/Anguilla]				1.0.0	1.0.0	1.0.0
geo loc name (country)	Antarctica	GAZ:00000462	The Earth's southernmost continent, overlying the South Pole. It is situated in the southern hemisphere, almost entirely south of the Antarctic Circle, and is surrounded by the Southern Ocean. [url:http://en.wikipedia.org/wiki/Antarctica]				1.0.0	1.0.0	1.0.0
geo loc name (country)	Antigua and Barbuda	GAZ:00006883	An island nation located on the eastern boundary of the Caribbean Sea with the Atlantic Ocean. [url:http://en.wikipedia.org/wiki/Antigua_and_Barbuda]				1.0.0	1.0.0	1.0.0
geo loc name (country)	Argentina	GAZ:00002928	A South American country, constituted as a federation of twenty-three provinces and an autonomous city. It is bordered by Paraguay and Bolivia in the north, Brazil and Uruguay in the northeast, and Chile in the west and south. The country claims the British controlled territories of the Falkland Islands and South Georgia and the South Sandwich Islands. Argentina also claims 969,464 km2 of Antarctica, known as Argentine Antarctica, overlapping other claims made by Chile and the United Kingdom. Argentina is subdivided into twenty-three provinces (Spanish: provincias, singular provincia) and one federal district (Capital de la Republica or Capital de la Nacion, informally the Capital Federal). The federal district and the provinces have their own constitutions, but exist under a federal system. Provinces are then divided into departments (Spanish: departamentos, singular departamento), except for Buenos Aires Province, which is divided into partidos. [url:http://en.wikipedia.org/wiki/Argentina]				1.0.0	1.0.0	1.0.0

geo loc name (country)	Armenia	GAZ:00004094	A landlocked mountainous country in Eurasia between the Black Sea and the Caspian Sea in the Southern Caucasus. It borders Turkey to the west, Georgia to the north, Azerbaijan to the east, and Iran and the Nakhchivan exclave of Azerbaijan to the south. A transcontinental country at the juncture of Eastern Europe and Western Asia. A former republic of the Soviet Union. Armenia is divided into ten marzes (provinces, singular marz), with the city (kaghak) of Yerevan having special administrative status as the country's capital. [url:http://en.wikipedia.org/wiki/Armenia]				1.0.0	1.0.0	1.0.0
geo loc name (country)	Aruba	GAZ:00004025	An autonomous region within the Kingdom of the Netherlands, Aruba has no administrative subdivisions. [url:http://en.wikipedia.org/wiki/Aruba]				1.0.0	1.0.0	1.0.0
geo loc name (country)	Ashmore and Cartier Islands	GAZ:00005901	A Territory of Australia that includes two groups of small low-lying uninhabited tropical islands in the Indian Ocean situated on the edge of the continental shelf north-west of Australia and south of the Indonesian island of Roti. [url:http://en.wikipedia.org/wiki/Ashmore_and_Cartier_Islands]				1.0.0	1.0.0	1.0.0
geo loc name (country)	Australia	GAZ:00000463	A country in the southern hemisphere comprising the mainland of the world's smallest continent, the major island of Tasmania, and a number of other islands in the Indian and Pacific Oceans. The neighbouring countries are Indonesia, East Timor, and Papua New Guinea to the north, the Solomon Islands, Vanuatu, and New Caledonia to the north-east, and New Zealand to the south-east. Australia has six states, two major mainland territories, and other minor territories.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Austria	GAZ:00002942	A landlocked country in Central Europe. It borders both Germany and the Czech Republic to the north, Slovakia and Hungary to the east, Slovenia and Italy to the south, and Switzerland and Liechtenstein to the west. The capital is the city of Vienna on the Danube River. Austria is divided into nine states (Bundeslander). These states are then divided into districts (Bezirke) and cities (Statutarstadte). Districts are subdivided into municipalities (Gemeinden). Cities have the competencies otherwise granted to both districts and municipalities.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Azerbaijan	GAZ:00004941	A country in the he South Caucasus region of Eurasia, it is bounded by the Caspian Sea to the east, Russia to the north, Georgia to the northwest, Armenia to the west, and Iran to the south. The Azerbaijani exclave of Nakhchivan is bordered by Armenia to the north and east, Iran to the south and west, and Turkey to the northwest. Nagorno-Karabakh, along with 7 other districts in Azerbaijan's southwest, have been controlled by Armenia since the end of the Nagorno-Karabakh War in 1994. Azerbaijan is divided into 59 rayons 11 city districts (saharlar), and one autonomous republic (muxtar respublika).				1.0.0	1.0.0	1.0.0
geo loc name (country)	Bahamas	GAZ:00002733	A country consisting of two thousand cays and seven hundred islands that form an archipelago. It is located in the Atlantic Ocean, southeast of Florida and the United States, north of Cuba, the island of Hispaniola and the Caribbean, and northwest of the British overseas territory of the Turks and Caicos Islands. It is divided into 32 districts, plus New Providence, whose affairs are handled directly by the central government.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Bahrain	GAZ:00005281	A borderless island country in the Persian Gulf. Saudi Arabia lies to the west and is connected to Bahrain by the King Fahd Causeway, and Qatar is to the south across the Gulf of Bahrain. Bahrain is split into five governorates.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Baker Island	GAZ:00007117	An uninhabited atoll located just north of the equator in the central Pacific Ocean about 3,100 km southwest of Honolulu. Baker Island is an unincorporated and unorganized territory of the US.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Bangladesh	GAZ:00003750	A country in South Asia. It is bordered by India on all sides except for a small border with Myanmar to the far southeast and by the Bay of Bengal to the south. Bangladesh is divided into six administrative divisions. Divisions are subdivided into districts (zila). There are 64 districts in Bangladesh, each further subdivided into upazila (subdistricts) or thana ("police stations").				1.0.0	1.0.0	1.0.0
geo loc name (country)	Barbados	GAZ:00001251	An island country in the Lesser Antilles of the West Indies, in the Caribbean region of the Americas, and the most easterly of the Caribbean Islands. It is 34 kilometres (21 miles) in length and up to 23 km (14 mi) in width, covering an area of 432 km2 (167 sq mi). It is in the western part of the North Atlantic, 100 km (62 mi) east of the Windward Islands and the Caribbean Sea.[7] Barbados is east of the Windwards, part of the Lesser Antilles, at roughly 13°N of the equator. It is about 168 km (104 mi) east of both the countries of Saint Lucia and Saint Vincent and the Grenadines and 180 km (110 mi) south-east of Martinique and 400 km (250 mi) north-east of Trinidad and Tobago. Barbados is outside the principal Atlantic hurricane belt. Its capital and largest city is Bridgetown.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Bassas da India	GAZ:00005810	A roughly circular atoll about 10 km in diameter, which corresponds to a total size (including lagoon) of 80 km2. It is located in the southern Mozambique Channel, about half-way between Madagascar (which is 385 km to the east) and Mozambique, and 110 km northwest of Europa Island. It rises steeply from the seabed 3000 m below.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Belarus	GAZ:00006886	A landlocked country in Eastern Europe, that borders Russia to the north and east, Ukraine to the south, Poland to the west, and Lithuania and Latvia to the north. Its capital is Minsk. Belarus is divided into six voblasts, or provinces. Voblasts are further subdivided into raions (commonly translated as districts or regions). As of 2002, there are six voblasts, 118 raions, 102 towns and 108 urbanized settlements. Minsk is given a special status, due to the city serving as the national capital.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Belgium	GAZ:00002938	A country in northwest Europe. Belgium shares borders with France (620 km), Germany (167 km), Luxembourg (148 km) and the Netherlands (450 km). The Flemish Region (Flanders) and the Walloon Region (Wallonia) each comprise five provinces; the third region, Brussels-Capital Region, is not a province, nor does it contain any Together, these comprise 589 municipalities, which in general consist of several sub-municipalities (which were independent municipalities before the municipal merger operation mainly in 1977).				1.0.0	1.0.0	1.0.0

geo loc name (country)	Belize	GAZ:00002934	A country in Central America. It is the only officially English speaking country in the region. Belize was a British colony for more than a century and was known as British Honduras until 1973. It became an independent nation within The Commonwealth in 1981. Belize is divided into 6 districts, which are further divided into 31 constituencies.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Benin	GAZ:00000904	A country in Western Africa. It borders Togo to the west, Nigeria to the east and Burkina Faso and Niger to the north; its short coastline to the south leads to the Bight of Benin. Its capital is Porto Novo, but the seat of government is Cotonou. Benin is divided into 12 departments and subdivided into 77 communes.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Bermuda	GAZ:00001264	A British overseas territory in the North Atlantic Ocean. Located off the east coast of the United States, it is situated around 1770 km NE of Miami, Florida and 1350 km S of Halifax, Nova Scotia. Comprised of approximately 138 islands.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Bhutan	GAZ:00003920	A landlocked nation in South Asia. It is located amidst the eastern end of the Himalaya Mountains and is bordered to the south, east and west by India and to the north by Tibet. Bhutan is separated from Nepal by the Indian State of Sikkim. Bhutan is divided into four dzongdey (administrative zones). Each dzongdey is further divided into dzongkhag (districts). There are twenty dzongkhag in Bhutan. Large dzongkhags are further divided into subdistricts known as dungkhag. At the basic level, groups of villages form a constituency called gewog.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Bolivia	GAZ:00002511	A landlocked country in central South America. It is bordered by Brazil on the north and east, Paraguay and Argentina on the south, and Chile and Peru on the west. Bolivia is divided into 9 departments (Spanish: departamentos). Each of the departments is subdivided into provinces (provincias), which are further subdivided into municipalities (municipios).				1.0.0	1.0.0	1.0.0
geo loc name (country)	Borneo	GAZ:00025355	An island at the geographic centre of Maritime Southeast Asia, in relation to major Indonesian islands, it is located north of Java, west of Sulawesi, and east of Sumatra. It is the third-largest island in the world and the largest in Asia. The island is politically divided among three countries: Malaysia and Brunei in the north, and Indonesia to the south.[1] Approximately 73% of the island is Indonesian territory. In the north, the East Malaysian states of Sabah and Sarawak make up about 26% of the island. Additionally, the Malaysian federal territory of Labuan is situated on a small island just off the coast of Borneo. The sovereign state of Brunei, located on the north coast, comprises about 1% of Borneo's land area. A little more than half of the island is in the Northern Hemisphere, including Brunei and the Malaysian portion, while the Indonesian portion spans the Northern and Southern hemispheres.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Bosnia and Herzegovina	GAZ:00006887	A country on the Balkan peninsula of Southern Europe. Bordered by Croatia to the north, west and south, Serbia to the east, and Montenegro to the south, Bosnia and Herzegovina is mostly landlocked, except for 26 km of the Adriatic Sea coastline. Bosnia and Herzegovina is now divided into three political regions of which one, the Brčko District is part of the other two, the Federacija Bosne i Hercegovine and the Republika Srpska. All three have an equal constitutional status on the whole territory of Bosnia and Herzegovina.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Botswana	GAZ:00001097	A landlocked nation in Southern Africa. It is bordered by South Africa to the south and southeast, Namibia to the west, Zambia to the north, and Zimbabwe to the northeast. Botswana is divided into nine districts, which are subdivided into a total twenty-eight subdistricts.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Bouvet Island	GAZ:00001453	A sub-antarctic volcanic island in the South Atlantic Ocean, south-southwest of the Cape of Good Hope (South Africa). It is a dependent area of Norway and is not subject to the Antarctic Treaty, as it is north of the latitude south of which claims are suspended.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Brazil	GAZ:00002828	A country in South America. Bordered by the Atlantic Ocean and by Venezuela, Suriname, Guyana and the department of French Guiana to the north, Colombia to the northwest, Bolivia and Peru to the west, Argentina and Paraguay to the southwest, and Uruguay to the south. Federation of twenty-six states (estados) and one federal district (Distrito Federal). The states are subdivided into municipalities. For statistical purposes, the States are grouped into five main regions: North, Northeast, Central-West, Southeast and South.				1.0.0	1.0.0	1.0.0
geo loc name (country)	British Virgin Islands	GAZ:00003961	A British overseas territory, located in the Caribbean to the east of Puerto Rico. The islands make up part of the Virgin Islands archipelago, the remaining islands constituting the US Virgin Islands. The British Virgin Islands consist of the main islands of Tortola, Virgin Gorda, Anegada and Jost Van Dyke, along with over fifty other smaller islands and cays. Approximately fifteen of the islands are inhabited.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Brunei	GAZ:00003901	A country located on the north coast of the island of Borneo, in Southeast Asia. Apart from its coastline with the South China Sea it is completely surrounded by the State of Sarawak, Malaysia, and in fact it is separated into two parts by Limbang, which is part of Sarawak. Brunei is divided into four districts (daerah), the districts are subdivided into thirty-eight mukims, which are then divided into kampong (villages).				1.0.0	1.0.0	1.0.0
geo loc name (country)	Bulgaria	GAZ:00002950	A country in Southeastern Europe, borders five other countries; Romania to the north (mostly along the Danube), Serbia and the Republic of Macedonia to the west, and Greece and Turkey to the south. The Black Sea defines the extent of the country to the east. Since 1999, it has consisted of twenty-eight provinces. The provinces subdivide into 264 municipalities.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Burkina Faso	GAZ:00000905	A landlocked nation in West Africa. It is surrounded by six countries: Mali to the north, Niger to the east, Benin to the south east, Togo and Ghana to the south, and Cote d'Ivoire to the south west. Burkina Faso is divided into thirteen regions, forty-five provinces, and 301 departments (communes).				1.0.0	1.0.0	1.0.0

geo loc name (country)	Burundi	GAZ:00001090	A small country in the Great Lakes region of Africa. It is bordered by Rwanda on the north, Tanzania on the south and east, and the Democratic Republic of the Congo on the west. Although the country is landlocked, much of its western border is adjacent to Lake Tanganyika. Burundi is divided into 17 provinces, 117 communes, and 2,638 collines.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Cambodia	GAZ:00006888	A country in Southeast Asia. The country borders Thailand to its west and northwest, Laos to its northeast, and Vietnam to its east and southeast. In the south it faces the Gulf of Thailand.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Cameroon	GAZ:00001093	A country of central and western Africa. It borders Nigeria to the west; Chad to the northeast; the Central African Republic to the east; and Equatorial Guinea, Gabon, and the Republic of the Congo to the south. Cameroon's coastline lies on the Bight of Bonny, part of the Gulf of Guinea and the Atlantic Ocean. The Republic of Cameroon is divided into ten provinces and 58 divisions or departments. The divisions are further sub-divided into sub-divisions (arrondissements) and districts.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Canada	GAZ:00002560	A country occupying most of northern North America, extending from the Atlantic Ocean in the east to the Pacific Ocean in the west and northward into the Arctic Ocean. Canada is a federation composed of ten provinces and three territories; in turn, these may be grouped into regions. Western Canada consists of British Columbia and the three Prairie provinces (Alberta, Saskatchewan, and Manitoba). Central Canada consists of Quebec and Ontario. Atlantic Canada consists of the three Maritime provinces (New Brunswick, Prince Edward Island, and Nova Scotia), along with Newfoundland and Labrador. Eastern Canada refers to Central Canada and Atlantic Canada together. Three territories (Yukon, Northwest Territories, and Nunavut) make up Northern Canada.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Cape Verde	GAZ:00001227	A republic located on an archipelago in the Macaronesia ecoregion of the North Atlantic Ocean, off the western coast of Africa. Cape Verde is divided into 22 municipalities (concelhos), and subdivided into 32 parishes (freguesias).				1.0.0	1.0.0	1.0.0
geo loc name (country)	Cayman Islands	GAZ:00003986	A British overseas territory located in the western Caribbean Sea, comprising the islands of Grand Cayman, Cayman Brac, and Little Cayman. The Cayman Islands are divided into seven districts.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Central African Republic	GAZ:00001089	A landlocked country in Central Africa. It borders Chad in the north, Sudan in the east, the Republic of the Congo and the Democratic Republic of the Congo in the south, and Cameroon in the west. The Central African Republic is divided into 14 administrative prefectures (prefectures), along with 2 economic prefectures (prefectures économiques) and one autonomous commune. The prefectures are further divided into 71 sub-prefectures (sous-prefectures).				1.0.0	1.0.0	1.0.0
geo loc name (country)	Chad	GAZ:00000586	A landlocked country in central Africa. It is bordered by Libya to the north, Sudan to the east, the Central African Republic to the south, Cameroon and Nigeria to the southwest, and Niger to the west. Chad is divided into 18 regions. The departments are divided into 200 sub-prefectures, which are in turn composed of 446 cantons. This is due to change.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Chile	GAZ:00002825	A country in South America occupying a long and narrow coastal strip wedged between the Andes mountains and the Pacific Ocean. The Pacific forms the country's entire western border, with Peru to the north, Bolivia to the northeast, Argentina to the east, and the Drake Passage at the country's southernmost tip. Chile claims 1,250,000 km2 of territory in Antarctica. Chile is divided into 15 regions. Every region is further divided into provinces. Finally each province is divided into communes. Each region is designated by a name and a Roman numeral, assigned from north to south. The only exception is the region housing the nation's capital, which is designated RM, that stands for Region Metropolitana (Metropolitan Region). Two new regions were created in 2006: Arica-Parinacota in the north, and Los Rios in the south. Both became operative in 2007-10.				1.0.0	1.0.0	1.0.0
geo loc name (country)	China	GAZ:00002845	A large country in Northeast Asia. China borders 14 nations (counted clockwise from south): Vietnam, Laos, Burma, India, Bhutan, Nepal, Pakistan, Afghanistan, Tajikistan, Kyrgyzstan, Kazakhstan, Russia, Mongolia and North Korea. Additionally the border between PRC and ROC is located in territorial waters. The People's Republic of China has administrative control over twenty-two provinces and considers Taiwan to be its twenty-third province. There are also five autonomous regions, each with a designated minority group; four municipalities; and two Special Administrative Regions that enjoy considerable autonomy. The People's Republic of China administers 33 province-level regions, 333 prefecture-level regions, 2,862 county-level regions, 41,636 township-level regions, and several village-level regions.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Christmas Island	GAZ:00005915	An island in the Indian Ocean, 500 km south of Indonesia and about 2600 km northwest of Perth. The island is the flat summit of a submarine mountain.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Clipperton Island	GAZ:00005838	A nine-square km coral atoll in the North Pacific Ocean, southwest of Mexico and west of Costa Rica.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Cocos Islands	GAZ:00009721	Islands that located in the Indian Ocean, about halfway between Australia and Sri Lanka. A territory of Australia. There are two atolls and twenty-seven coral islands in the group.				1.0.0	1.0.0	1.0.0

geo loc name (country)	Colombia	GAZ:00002929	A country located in the northwestern region of South America. Colombia is bordered to the east by Venezuela and Brazil; to the south by Ecuador and Peru; to the North by the Atlantic Ocean, through the Caribbean Sea; to the north-west by Panama; and to the west by the Pacific Ocean. Besides the countries in South America, the Republic of Colombia is recognized to share maritime borders with the Caribbean countries of Jamaica, Haiti, the Dominican Republic and the Central American countries of Honduras, Nicaragua, and Costa Rica. Colombia is divided into 32 departments and one capital district which is treated as a department. There are in total 10 districts assigned to cities in Colombia including Bogota, Barranquilla, Cartagena, Santa Marta, Tunja, Cucuta, Popayan, Buenaventura, Tumaco and Turbo. Colombia is also subdivided into some municipalities which form departments, each with a municipal seat capital city assigned. Colombia is also subdivided into corregimientos which form municipalities.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Comoros	GAZ:00005820	An island nation in the Indian Ocean, located off the eastern coast of Africa on the northern end of the Mozambique Channel between northern Madagascar and northeastern Mozambique.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Cook Islands	GAZ:00053798	A self-governing parliamentary democracy in free association with New Zealand. The fifteen small islands in this South Pacific Ocean country have a total land area of 240 km2, but the Cook Islands Exclusive Economic Zone (EEZ) covers 1.8 million km2 of ocean.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Coral Sea Islands	GAZ:00005917	A Territory of Australia which includes a group of small and mostly uninhabited tropical islands and reefs in the Coral Sea, northeast of Queensland, Australia. The only inhabited island is Willis Island. The territory covers 780,000 km2, extending east and south from the outer edge of the Great Barrier Reef, and including Herald's Beacon Island, Osprey Reef, the Willis Group, and fifteen other reef/island groups.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Costa Rica	GAZ:00002901	A republic in Central America, bordered by Nicaragua to the north, Panama to the east-southeast, the Pacific Ocean to the west and south, and the Caribbean Sea to the east. Costa Rica is composed of seven provinces, which in turn are divided into 81 cantons.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Cote d'Ivoire	GAZ:00000906	A country in West Africa. It borders Liberia and Guinea to the west, Mali and Burkina Faso to the north, Ghana to the east, and the Gulf of Guinea to the south. Cote d'Ivoire is divided into nineteen regions (regions). The regions are further divided into 58 departments.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Croatia	GAZ:00002719	A country at the crossroads of the Mediterranean, Central Europe, and the Balkans. Its capital is Zagreb. Croatia borders with Slovenia and Hungary to the north, Serbia to the northeast, Bosnia and Herzegovina to the east, Montenegro to the far southeast, and the Adriatic Sea to the south. Croatia is divided into 21 counties (zupanija) and the capital Zagreb's city district.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Cuba	GAZ:00003762	A country that consists of the island of Cuba (the largest and second-most populous island of the Greater Antilles), Isla de la Juventud and several adjacent small islands. Fourteen provinces and one special municipality (the Isla de la Juventud) now compose Cuba.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Curacao	GAZ:00012582	One of five island areas of the Netherlands Antilles.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Cyprus	GAZ:00004006	The third largest island in the Mediterranean Sea (after Sicily and Sardinia), Cyprus is situated in the eastern Mediterranean, just south of the Anatolian peninsula (or Asia Minor) of the Asian mainland; thus, it is often included in the Middle East (see also Western Asia and Near East). Turkey is 75 km north; other neighbouring countries include Syria and Lebanon to the east, Israel to the southeast, Egypt to the south, and Greece to the west-north-west.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Czech Republic	GAZ:00002954	A landlocked country in Central Europe. It has borders with Poland to the north, Germany to the northwest and southwest, Austria to the south, and Slovakia to the east. The capital and largest city is Prague. The country is composed of the historic regions of Bohemia and Moravia, as well as parts of Silesia. Since 2000, the Czech Republic is divided into thirteen regions (kraje, singular kraj) and the capital city of Prague. The older seventy-six districts (okresy, singular okres) including three 'statutory cities' (without Prague, which had special status) were disbanded in 1999 in an administrative reform; they remain as territorial division and seats of various branches of state administration. Since 2003-01-01, the regions have been divided into around 203 Municipalities with Extended Competence (unofficially named "Little Districts" (Czech: 'male okresy') which took over most of the administration of the former District Authorities. Some of these are further divided into Municipalities with Commissioned Local Authority. However, the old districts still exist as territorial units and remain as seats of some of the offices.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Democratic Republic of the Congo	GAZ:00001086	A country of central Africa. It borders the Central African Republic and Sudan on the north, Uganda, Rwanda, and Burundi on the east, Zambia and Angola on the south, the Republic of the Congo on the west, and is separated from Tanzania by Lake Tanganyika on the east. The country enjoys access to the ocean through a 40 km stretch of Atlantic coastline at Muanda and the roughly 9 km wide mouth of the Congo river which opens into the Gulf of Guinea. Congo Kinshasa is now divided into 11 Provinces, to be redistributed into 25 Provinces from 2.2009. Each Province is divided into Zones.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Denmark	GAZ:00005852	That part of the Kingdom of Denmark located in continental Europe. The mainland is bordered to the south by Germany; Denmark is located to the southwest of Sweden and the south of Norway. Denmark borders both the Baltic and the North Sea. The country consists of a large peninsula, Jutland (Jylland) and a large number of islands, most notably Zealand (Sjælland), Funen (Fyn), Vendsyssel-Thy, Lolland, Falster and Bornholm as well as hundreds of minor islands often referred to as the Danish Archipelago.					1.0.0	1.0.0	1.0.0

geo loc name (country)	Djibouti	GAZ:00000582	A country in eastern Africa. Djibouti is bordered by Eritrea in the north, Ethiopia in the west and south, and Somalia in the southeast. The remainder of the border is formed by the Red Sea and the Gulf of Aden. On the other side of the Red Sea, on the Arabian Peninsula, 20 km from the coast of Djibouti, is Yemen. The capital of Djibouti is the city of Djibouti. Djibouti is divided into 5 regions and one city. It is further subdivided into 11 districts.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Dominica	GAZ:00006890	An island nation in the Caribbean Sea. Dominica is divided into ten parishes.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Dominican Republic	GAZ:00003952	A country in the West Indies that occupies the E two-thirds of the Hispaniola island. The Dominican Republic's shores are washed by the Atlantic Ocean to the north and the Caribbean Sea to the south. The Mona Passage, a channel about 130 km wide, separates the country (and the Hispaniola) from Puerto Rico. The Dominican Republic is divided into 31 provinces. Additionally, the national capital, Santo Domingo, is contained within its own Distrito Nacional (National District). The provinces are divided into municipalities (municipios; singular municipio).				1.0.0	1.0.0	1.0.0
geo loc name (country)	Ecuador	GAZ:00002912	A country in South America, bordered by Colombia on the north, by Peru on the east and south, and by the Pacific Ocean to the west. The country also includes the Galapagos Islands (Archipelago de Colon) in the Pacific, about 965 km west of the mainland. Ecuador is divided into 24 provinces, divided into 199 cantons and subdivided into parishes (or parroquias).				1.0.0	1.0.0	1.0.0
geo loc name (country)	Egypt	GAZ:00003934	A country in North Africa that includes the Sinai Peninsula, a land bridge to Asia. Egypt borders Libya to the west, Sudan to the south, and the Gaza Strip and Israel to the east. The northern coast borders the Mediterranean Sea and the island of Cyprus; the eastern coast borders the Red Sea. Egypt is divided into 26 governorates (in Arabic, called muhafazah, singular muhafazah). The governorates are further divided into regions (markazes).				1.0.0	1.0.0	1.0.0
geo loc name (country)	El Salvador	GAZ:00002935	A country in Central America, bordering the Pacific Ocean between Guatemala and Honduras. El Salvador is divided into 14 departments (departamentos), which, in turn, are subdivided into 267 municipalities (municipios).				1.0.0	1.0.0	1.0.0
geo loc name (country)	Equatorial Guinea	GAZ:00001091	A country in Central Africa. It is one of the smallest countries in continental Africa, and comprises two regions: Rio Muni, continental region including several offshore islands; and Insular Region containing Annobon island in the South Atlantic Ocean, and Bioko island (formerly Fernando Po) that contains the capital, Malabo. Equatorial Guinea is divided into seven provinces which are divided into districts.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Eritrea	GAZ:00000581	A country situated in northern East Africa. It is bordered by Sudan in the west, Ethiopia in the south, and Djibouti in the southeast. The east and northeast of the country have an extensive coastline on the Red Sea, directly across from Saudi Arabia and Yemen. The Dahlak Archipelago and several of the Hanish Islands are part of Eritrea. Eritrea is divided into six regions (zobas) and subdivided into districts ("sub-zobas").				1.0.0	1.0.0	1.0.0
geo loc name (country)	Estonia	GAZ:00002959	A country in Northern Europe. Estonia has land borders to the south with Latvia and to the east with Russia. It is separated from Finland in the north by the Gulf of Finland and from Sweden in the west by the Baltic Sea. Estonia is divided into 15 counties. (maakonnad; sing. - maakond). Estonian counties are divided into rural (vallad, singular vald) and urban (linnad, singular linn; alevid, singular alev; alevikud, singular alevik) municipalities. The municipalities comprise populated places (asula or asustussukus) - various settlements and territorial units that have no administrative function. A group of populated places form a rural municipality with local administration. Most towns constitute separate urban municipalities, while some have joined with surrounding rural municipalities.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Eswatini	GAZ:00001099	A small, landlocked country in Africa embedded between South Africa in the west, north and south and Mozambique in the east. Swaziland is divided into four districts, each of which is divided into Tinkhundla (singular, Inkhundla).				1.0.0	1.0.0	1.0.0
geo loc name (country)	Ethiopia	GAZ:00000567	A country situated in the Horn of Africa that has been landlocked since the independence of its northern neighbor Eritrea in 1993. Apart from Eritrea to the north, Ethiopia is bordered by Sudan to the west, Kenya to the south, Djibouti to the northeast, and Somalia to the east. Since 1996 Ethiopia has had a tiered government system consisting of a federal government overseeing ethnically-based regional states, zones, districts (woredas), and neighborhoods (kebele). It is divided into nine ethnically-based administrative states (kililoch, singular kilil) and subdivided into sixty-eight zones and two chartered cities (astedader akababiwoch, singular astedader akababi): Addis Ababa and Dire Dawa. It is further subdivided into 550 woredas and six special woredas.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Europa Island	GAZ:00005811	A 28 km2 low-lying tropical island in the Mozambique Channel, about a third of the way from southern Madagascar to southern Mozambique.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Falkland Islands (Islas Malvinas)	GAZ:00001412	An archipelago in the South Atlantic Ocean, located 483 km from the coast of Argentina, 1,080 km west of the Shag Rocks (South Georgia), and 940 km north of Antarctica (Elephant Island). They consist of two main islands, East Falkland and West Falkland, together with 776 smaller islands.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Faroe Islands	GAZ:00059206	An autonomous province of the Kingdom of Denmark since 1948 located in the Faroes. Administratively, the islands are divided into 34 municipalities (kommunur) within which 120 or so cities and villages lie.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Fiji	GAZ:00006891	An island nation in the South Pacific Ocean east of Vanuatu, west of Tonga and south of Tuvalu. The country occupies an archipelago of about 322 islands, of which 106 are permanently inhabited, and 522 islets. The two major islands, Viti Levu and Vanua Levu, account for 87% of the population.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Finland	GAZ:00002937	A Nordic country situated in the Fennoscandian region of Northern Europe. It has borders with Sweden to the west, Russia to the east, and Norway to the north, while Estonia lies to its south across the Gulf of Finland. The capital city is Helsinki. Finland is divided into six administrative provinces (laani, plural laanit). These are divided into 20 regions (maakunt), 77 subregions (seutukunta) and then into municipalities (kunta).				1.0.0	1.0.0	1.0.0

geo loc name (country)	France	GAZ:00003940	A part of the country of France that extends from the Mediterranean Sea to the English Channel and the North Sea, and from the Rhine to the Atlantic Ocean. Metropolitan France is bordered by Belgium, Luxembourg, Germany, Switzerland, Italy, Monaco, Andorra, and Spain. Due to its overseas departments.					1.0.0	1.0.0	1.0.0
geo loc name (country)	French Guiana	GAZ:00002516	An overseas department (departement d'outre-mer) of France, located on the northern coast of South America. It is bordered by Suriname, to the E, and Brazil, to the S and W, and by the North Atlantic Ocean, to the N. French Guiana is divided into 2 departmental arrondissements, 19 cantons and 22 communes.					1.0.0	1.0.0	1.0.0
geo loc name (country)	French Polynesia	GAZ:00002918	A French overseas collectivity in the southern Pacific Ocean. It is made up of several groups of Polynesian islands. French Polynesia has five administrative subdivisions (French: subdivisions administratives).					1.0.0	1.0.0	1.0.0
geo loc name (country)	French Southern and Antarctic Lands	GAZ:00003753	The French Southern and Antarctic Lands have formed a territoire d'outre-mer (an overseas territory) of France since 1955. The territory is divided into five districts.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Gabon	GAZ:00001092	A country in west central Africa sharing borders with Equatorial Guinea, Cameroon, Republic of the Congo and the Gulf of Guinea. The capital and largest city is Libreville. Gabon is divided into 9 provinces and further divided into 37 departments.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Gambia	GAZ:00000907	A country in Western Africa. It is the smallest country on the African continental mainland and is bordered to the north, east, and south by Senegal, and has a small coast on the Atlantic Ocean in the west. Flowing through the centre of the country and discharging to the Atlantic Ocean is the Gambia River. The Gambia is divided into five divisions and one city (Banjul). The divisions are further subdivided into 37 districts.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Gaza Strip	GAZ:00009571	A Palestinian enclave on the eastern coast of the Mediterranean Sea. It borders Egypt on the southwest for 11 kilometers (6.8 mi) and Israel on the east and north along a 51 km (32 mi) border. Gaza and the West Bank are claimed by the de jure sovereign State of Palestine.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Georgia	GAZ:00004942	A Eurasian country in the Caucasus located at the east coast of the Black Sea. In the north, Georgia has a 723 km common border with Russia, specifically with the Northern Caucasus federal district. The following Russian republics/subdivisions: from west to east: border Georgia: Krasnodar Krai, Karachay-Cherkessia, Kabardino-Balkaria, North Ossetia-Alania, Ingushetia, Chechnya, Dagestan. Georgia also shares borders with Azerbaijan (322 km) to the south-east, Armenia (164 km) to the south, and Turkey (252 km) to the south-west. It is a transcontinental country, located at the juncture of Eastern Europe and Western Asia. Georgia is divided into 9 regions, 2 autonomous republics (avtonomiuri respublika), and 1 city (K'alak'i). The regions are further subdivided into 69 districts (raioni).					1.0.0	1.0.0	1.0.0
geo loc name (country)	Germany	GAZ:00002646	A country in Central Europe. It is bordered to the north by the North Sea, Denmark, and the Baltic Sea; to the east by Poland and the Czech Republic; to the south by Austria and Switzerland; and to the west by France, Luxembourg, Belgium, and the Netherlands. Germany comprises 16 states (Länder, Bundesländer), which are further subdivided into 439 districts (Kreise/Landkreise) and cities (kreisfreie Städte).					1.0.0	1.0.0	1.0.0
geo loc name (country)	Ghana	GAZ:00000908	A country in West Africa. It borders Cote d'Ivoire to the west, Burkina Faso to the north, Togo to the east, and the Gulf of Guinea to the south. Ghana is a divided into 10 regions, subdivided into a total of 138 districts.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Gibraltar	GAZ:00003987	A British overseas territory located near the southernmost tip of the Iberian Peninsula overlooking the Strait of Gibraltar. The territory shares a border with Spain to the north.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Glorioso Islands	GAZ:00005808	A group of islands and rocks totalling 5 km2, in the northern Mozambique channel, about 160 km northwest of Madagascar.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Greece	GAZ:00002945	A country in southeastern Europe, situated on the southern end of the Balkan Peninsula. It has borders with Albania, the former Yugoslav Republic of Macedonia and Bulgaria to the north, and Turkey to the east. The Aegean Sea lies to the east and south of mainland Greece, while the Ionian Sea lies to the west. Both parts of the Eastern Mediterranean basin feature a vast number of islands. Greece consists of thirteen peripheries subdivided into a total of fifty-one prefectures (nomoi, singular nomos). There is also one autonomous area, Mount Athos, which borders the periphery of Central Macedonia.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Greenland	GAZ:00001507	A self-governing Danish province located between the Arctic and Atlantic Oceans, east of the Canadian Arctic Archipelago.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Grenada	GAZ:02000573	An island country in the West Indies in the Caribbean Sea at the southern end of the Grenadines island chain. Grenada consists of the island of Grenada itself, two smaller islands, Carriacou and Petite Martinique, and several small islands which lie to the north of the main island and are a part of the Grenadines. It is located northwest of Trinidad and Tobago, northeast of Venezuela and southwest of Saint Vincent and the Grenadines. Its size is 348.5 square kilometres (134.6 sq mi), and it had an estimated population of 112,523 in July 2020.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Guadeloupe	GAZ:00067142	An archipelago and overseas department and region of France in the Caribbean. It consists of six inhabited islands—Basse-Terre, Grande-Terre, Marie-Galante, La Désirade, and the two inhabited Îles des Saintes—as well as many uninhabited islands and outcroppings. It is south of Antigua and Barbuda and Montserrat, and north of Dominica.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Guam	GAZ:00003706	An organized, unincorporated territory of the United States in the Micronesia subregion of the western Pacific Ocean. It is the westernmost point and territory of the United States (reckoned from the geographic center of the U.S.); in Oceania, it is the largest and southernmost of the Mariana Islands and the largest island in Micronesia.					1.0.0	1.0.0	1.0.0

geo loc name (country)	Guatemala	GAZ:00002936	A country in Central America bordered by Mexico to the northwest, the Pacific Ocean to the southwest, Belize and the Caribbean Sea to the northeast, and Honduras and El Salvador to the southeast. Guatemala is divided into 22 departments (departamentos) and sub-divided into about 332 municipalities (municipios).					1.0.0	1.0.0	1.0.0
geo loc name (country)	Guernsey	GAZ:00001550	A British Crown Dependency in the English Channel off the coast of Normandy.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Guinea	GAZ:00000909	A nation in West Africa, formerly known as French Guinea. Guinea's territory has a curved shape, with its base at the Atlantic Ocean, inland to the east, and turning south. The base borders Guinea-Bissau and Senegal to the north, and Mali to the north and north-east; the inland part borders Cote d'Ivoire to the south-east, Liberia to the south, and Sierra Leone to the west of the southern tip.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Guinea-Bissau	GAZ:00000910	A country in western Africa, and one of the smallest nations in continental Africa. It is bordered by Senegal to the north, and Guinea to the south and east, with the Atlantic Ocean to its west. Formerly the Portuguese colony of Portuguese Guinea, upon independence, the name of its capital, Bissau, was added to the country's name in order to prevent confusion between itself and the Republic of Guinea.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Guyana	GAZ:00002522	A country in the N of South America. Guyana lies north of the equator, in the tropics, and is located on the Atlantic Ocean. Guyana is bordered to the east by Suriname, to the south and southwest by Brazil and to the west by Venezuela. Guyana is divided into 10 regions. The regions of Guyana are divided into 27 neighborhood councils.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Haiti	GAZ:00003953	A country located in the Greater Antilles archipelago on the Caribbean island of Hispaniola, which it shares with the Dominican Republic. Haiti is divided into 10 departments. The departments are further divided into 41 arrondissements, and 133 communes which serve as second and third level administrative divisions.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Heard Island and McDonald Islands	GAZ:00009718	An Australian external territory comprising a volcanic group of mostly barren Antarctic islands, about two-thirds of the way from Madagascar to Antarctica.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Honduras	GAZ:00002894	A republic in Central America. The country is bordered to the west by Guatemala, to the southwest by El Salvador, to the southeast by Nicaragua, to the south by the Pacific Ocean at the Gulf of Fonseca, and to the north by the Gulf of Honduras, a large inlet of the Caribbean Sea. Honduras is divided into 18 departments. The capital city is Tegucigalpa Central District of the department of Francisco Morazan.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Hong Kong	GAZ:00003203	A special administrative region of the People's Republic of China (PRC). The territory lies on the eastern side of the Pearl River Delta, bordering Guangdong province in the north and facing the South China Sea in the east, west and south. Hong Kong was a crown colony of the United Kingdom from 1842 until the transfer of its sovereignty to the People's Republic of China in 1997.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Howland Island	GAZ:00007120	An uninhabited coral island located just north of the equator in the central Pacific Ocean, about 3,100 km (1,670 nm) southwest of Honolulu. The island is almost half way between Hawaii and Australia and is an unincorporated, unorganized territory of the United States, and is often included as one of the Phoenix Islands. For statistical purposes, Howland is grouped as one of the United States Minor Outlying Islands.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Hungary	GAZ:00002952	A landlocked country in the Carpathian Basin of Central Europe, bordered by Austria, Slovakia, Ukraine, Romania, Serbia, Croatia, and Slovenia. Its capital is Budapest. Hungary is divided into 19 counties (megye, singular: megye). In addition, the capital city (fovaros), Budapest, is independent of any county government. The counties are further subdivided into 173 subregions (kistersegek), and Budapest is comprised of its own subregion. Since 1996, the counties and City of Budapest have been grouped into 7 regions for statistical and development purposes. These seven regions constitute NUTS second-level units of Hungary.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Iceland	GAZ:00000843	A country in northern Europe, comprising the island of Iceland and its outlying islands in the North Atlantic Ocean between the rest of Europe and Greenland.					1.0.0	1.0.0	1.0.0
geo loc name (country)	India	GAZ:00002839	A country in South Asia. Bounded by the Indian Ocean on the south, the Arabian Sea on the west, and the Bay of Bengal on the east, India has a coastline of 7,517 km. It borders Pakistan to the west; China, Nepal, and Bhutan to the north-east; and Bangladesh and Burma to the east. India is in the vicinity of Sri Lanka, the Maldives, and Indonesia in the Indian Ocean. India is a federal republic of twenty-eight states and seven Union Territories. Each state or union territory is divided into basic units of government and administration called districts. There are nearly 600 districts in India. The districts in turn are further divided into tehsils and eventually into villages.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Indonesia	GAZ:00003727	An archipelagic state in Southeast Asia. The country shares land borders with Papua New Guinea, East Timor and Malaysia. Other neighboring countries include Singapore, the Philippines, Australia, and the Indian territory of the Andaman and Nicobar Islands. Indonesia consists of 33 provinces, five of which have special status. The provinces are subdivided into regencies (kabupaten, distrik in Papua and West Papua Provinces) and cities (kota), which are further subdivided into subdistricts (kecamatan), and again into village groupings (either desa or kelurahan).					1.0.0	1.0.0	1.0.0
geo loc name (country)	Iran	GAZ:00004474	A country in Central Eurasia. Iran is bounded by the Gulf of Oman and the Persian Gulf to the south and the Caspian Sea to its north. It borders Armenia, Azerbaijan, Turkmenistan to the north, Afghanistan and Pakistan to the east, and Turkey and Iraq to the west. Iran is divided into 30 provinces (ostan). The provinces are divided into counties (shahrestan), and subdivided into districts (bakhsh) and sub-districts (dehestan).					1.0.0	1.0.0	1.0.0
geo loc name (country)	Iraq	GAZ:00004483	A country in the Middle East spanning most of the northwestern end of the Zagros mountain range, the eastern part of the Syrian Desert and the northern part of the Arabian Desert. It shares borders with Kuwait and Saudi Arabia to the south, Jordan to the west, Syria to the northwest, Turkey to the north, and Iran to the east. It has a very narrow section of coastline at Umm Qasr on the Persian Gulf. There are two major flowing rivers: the Tigris and the Euphrates. Iraq is divided into 18 governorates (or provinces) (muhafazah). The governorates are divided into qadhas (or districts).					1.0.0	1.0.0	1.0.0

geo loc name (country)	Ireland	GAZ:00002943	A country in north-western Europe. The modern sovereign state occupies five-sixths of the island of Ireland, which was partitioned in 1921. It is bordered by Northern Ireland (part of the United Kingdom) to the north, by the Atlantic Ocean to the west and by the Irish Sea to the east. Administration follows the 34 "county-level" counties and cities of Ireland. Of these twenty-nine are counties, governed by county councils while the five cities of Dublin, Cork, Limerick, Galway and Waterford have city councils, (previously known as corporations), and are administered separately from the counties bearing those names. The City of Kilkenny is the only city in the republic which does not have a "city council"; it is still a borough but not a county borough and is administered as part of County Kilkenny. Ireland is split into eight regions for NUTS statistical purposes. These are not related to the four traditional provinces but are based on the administrative counties.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Isle of Man	GAZ:000052477	A Crown dependency of the United Kingdom in the centre of the Irish Sea. It is not part of the United Kingdom, European Union or United Nations.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Israel	GAZ:00002476	A country in Western Asia located on the eastern edge of the Mediterranean Sea. It borders Lebanon in the north, Syria in the northeast, Jordan in the east, and Egypt on the southwest. The West Bank and Gaza Strip, which are partially administrated by the Palestinian National Authority, are also adjacent. The State of Israel is divided into six main administrative districts, known as mehozot (singular mahoz). Districts are further divided into fifteen sub-districts known as nafot (singular: nafa), which are themselves partitioned into fifty natural regions.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Italy	GAZ:00002650	A country located on the Italian Peninsula in Southern Europe, and on the two largest islands in the Mediterranean Sea, Sicily and Sardinia. Italy shares its northern Alpine boundary with France, Switzerland, Austria and Slovenia. The independent states of San Marino and the Vatican City are enclaves within the Italian Peninsula, while Campione d'Italia is an Italian exclave in Switzerland. Italy is subdivided into 20 regions (regioni, singular regione). Five of these regions have a special autonomous status that enables them to enact legislation on some of their local matters. It is further divided into 109 provinces (province) and 8,101 municipalities (comuni).				1.0.0	1.0.0	1.0.0
geo loc name (country)	Jamaica	GAZ:00003781	A nation of the Greater Antilles. Jamaica is divided into 14 parishes, which are grouped into three historic counties that have no administrative relevance.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Jan Mayen	GAZ:00005853	A volcanic island that is part of the Kingdom of Norway. It has two parts: larger Nord-Jan and smaller Sor-Jan, linked by an isthmus 2.5 km wide. It lies 600 km north of Iceland, 500 km east of Greenland and 1,000 km west of the Norwegian mainland. The island is mountainous, the highest summit being the Beerenberg volcano in the north. The isthmus is the location of the two largest lakes of the island, Sorlaguna (South Lagoon), and Nordlaguna (North Lagoon). A third lake is called Ullerenglaguna (Ullereng Lagoon). Jan Mayen was formed by the Jan Mayen hotspot.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Japan	GAZ:00002747	An island country in East Asia. Located in the Pacific Ocean, it lies to the east of China, Korea and Russia, stretching from the Sea of Okhotsk in the north to the East China Sea in the south.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Jarvis Island	GAZ:00007118	An uninhabited 4.5 km2 coral atoll located in the South Pacific Ocean about halfway between Hawaii and the Cook Islands. It is an unincorporated territory of the United States administered from Washington, DC by the United States Fish and Wildlife Service of the United States Department of the Interior as part of the National Wildlife Refuge system. Jarvis is one of the southern Line Islands and for statistical purposes is also grouped as one of the United States Minor Outlying Islands. Sits atop the Jarvis Seamount.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Jersey	GAZ:00001551	A British Crown Dependency[6] off the coast of Normandy, France. As well as the island of Jersey itself, the bailiwick includes two groups of small islands that are no longer permanently inhabited, the Minquiers and Ecrehous, and the Pierres de Lecq.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Johnston Atoll	GAZ:00007114	A 130 km2 atoll in the North Pacific Ocean about 1400 km (750 nm) west of Hawaii. There are four islands located on the coral reef platform, two natural islands, Johnston Island and Sand Island, which have been expanded by coral dredging, as well as North Island (Akau) and East Island (Hikina), artificial islands formed from coral dredging. Johnston is an unincorporated territory of the United States, administered by the US Fish and Wildlife Service of the Department of the Interior as part of the United States Pacific Island Wildlife Refuges. Sits atop Johnston Seamount.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Jordan	GAZ:00002473	A country in Southwest Asia, bordered by Syria to the north, Iraq to the north-east, Israel and the West Bank to the west, and Saudi Arabia to the east and south. It shares the coastlines of the Dead Sea, and the Gulf of Aqaba with Israel, Saudi Arabia, and Egypt. Jordan is divided into 12 provinces called governorates. The Governorates are subdivided into approximately fifty-two nahias.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Juan de Nova Island	GAZ:00005809	A 4.4 km2 low, flat, tropical island in the narrowest part of the Mozambique Channel, about one-third of the way between Madagascar and Mozambique.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Kazakhstan	GAZ:00004999	A country in Central Asia and Europe. It is bordered by Russia, Kyrgyzstan, Turkmenistan, Uzbekistan and China. The country also borders on a significant part of the Caspian Sea. Kazakhstan is divided into 14 provinces and two municipal districts. The provinces of Kazakhstan are divided into raions.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Kenya	GAZ:00001101	A country in Eastern Africa. It is bordered by Ethiopia to the north, Somalia to the east, Tanzania to the south, Uganda to the west, and Sudan to the northwest, with the Indian Ocean running along the southeast border. Kenya comprises eight provinces each headed by a Provincial Commissioner (centrally appointed by the president). The provinces (mkoa singular mikoa plural in Swahili) are subdivided into districts (wilaya). There were 69 districts as of 1999 census. Districts are then subdivided into 497 divisions (taarafa). The divisions are then subdivided into 2,427 locations (kata) and then 6,612 sublocations (kata ndogo). The City of Nairobi enjoys the status of a full administrative province.				1.0.0	1.0.0	1.0.0

geo loc name (country)	Kerguelen Archipelago	GAZ:00005682	A group of islands in the southern Indian Ocean. It is a territory of France. They are composed primarily of Tertiary flood basalts and a complex of plutonic rocks. The trachybasaltic-to-trachytic Mount Ross stratovolcano at the southern end was active during the late Pleistocene. The Rallier du Baty Peninsula on the SW tip of the island contains two youthful subglacial eruptive centers, Mont St. Allouarn and Mont Henri Rallier du Baty. An active fumarole field is related to a series of Holocene trachytic lava flows and lahars that extend beyond the icecap.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Kingman Reef	GAZ:00007116	A largely submerged, uninhabited tropical atoll located in the North Pacific Ocean, roughly half way between Hawaiian Islands and American Samoa. It is the northernmost of the Northern Line Islands and lies 65 km NNW of Palmyra Atoll, the next closest island, and has the status of an unincorporated territory of the United States, administered from Washington, DC by the US Navy. Sits atop Kingman Reef Seamount.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Kiribati	GAZ:00006894	An island nation located in the central tropical Pacific Ocean. It is composed of 32 atolls and one raised coral island dispersed over 3,500,000 km2 straddling the equator and bordering the International Date Line to the east. It is divided into three island groups which have no administrative function, including a group which unites the Line Islands and the Phoenix Islands (ministry at London, Christmas). Each inhabited island has its own council (three councils on Tarawa: Betio, South-Tarawa, North-Tarawa; two councils on Tabiteuea).					1.0.0	1.0.0	1.0.0
geo loc name (country)	Kosovo	GAZ:00011337	A country on the Balkan Peninsula. Kosovo borders Central Serbia to the north and east, Montenegro to the northwest, Albania to the west and the Republic of Macedonia to the south. Kosovo is divided into 7 districts (Rreth) and 30 municipalities. Serbia does not recognise the unilateral secession of Kosovo[8] and considers it a United Nations-governed entity within its sovereign territory, the Autonomous Province of Kosovo and Metohija.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Kuwait	GAZ:00005285	A sovereign emirate on the coast of the Persian Gulf, enclosed by Saudi Arabia to the south and Iraq to the north and west. Kuwait is divided into six governorates (muhafazat, singular muhafadhah).					1.0.0	1.0.0	1.0.0
geo loc name (country)	Kyrgyzstan	GAZ:00006893	A country in Central Asia. Landlocked and mountainous, it is bordered by Kazakhstan to the north, Uzbekistan to the west, Tajikistan to the southwest and China to the east. Kyrgyzstan is divided into seven provinces (oblast. The capital, Bishkek, and the second large city Osh are administratively the independent cities (shaar) with a status equal to a province. Each province comprises a number of districts (raions).					1.0.0	1.0.0	1.0.0
geo loc name (country)	Laos	GAZ:00006889	A landlocked country in southeast Asia, bordered by Burma (Myanmar) and China to the northwest, Vietnam to the east, Cambodia to the south, and Thailand to the west. Laos is divided into sixteen provinces (qwang) and Vientiane Capital (Na Kone Luang Vientiane). The provinces further divided into districts (muang).					1.0.0	1.0.0	1.0.0
geo loc name (country)	Latvia	GAZ:00002958	A country in Northern Europe. Latvia shares land borders with Estonia to the north and Lithuania to the south, and both Russia and Belarus to the east. It is separated from Sweden in the west by the Baltic Sea. The capital of Latvia is Riga. Latvia is divided into 26 districts (raionii). There are also seven cities (ielipilsētas) that have a separate status. Latvia is also historically, culturally and constitutionally divided in four or more distinct regions.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Lebanon	GAZ:00002478	A small, mostly mountainous country in Western Asia, on the eastern shore of the Mediterranean Sea. It is bordered by Syria to the north and east, and Israel to the south. Lebanon is divided into six governorates (mohaafazaat, which are further subdivided into twenty-five districts (aqdya, singular: qadaa).					1.0.0	1.0.0	1.0.0
geo loc name (country)	Lesotho	GAZ:00001098	A land-locked country, entirely surrounded by the Republic of South Africa. Lesotho is divided into ten districts; these are further subdivided into 80 constituencies, which consists of 129 local community councils.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Liberia	GAZ:00000911	A country on the west coast of Africa, bordered by Sierra Leone, Guinea, Cote d'Ivoire, and the Atlantic Ocean.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Libya	GAZ:00000566	A country in North Africa. Bordering the Mediterranean Sea to the north, Libya lies between Egypt to the east, Sudan to the southeast, Chad and Niger to the south, and Algeria and Tunisia to the west. There are thirty-four municipalities of Libya, known by the Arabic term sha'biyat (singular sha'biyah). These came recently (in the 1990s to replaced old Baladiyat system. The Baladiyat system in turn was introduced to replace the system of muhafazah (governorates or provinces) that existed from the 1960s to the 1970s.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Liechtenstein	GAZ:00003858	A tiny, doubly landlocked alpine country in Western Europe, bordered by Switzerland to its west and by Austria to its east. The principality of Liechtenstein is divided into 11 municipalities called Gemeinden (singular Gemeinde). The Gemeinden mostly consist only of a single town. Five of them fall within the electoral district Unterland (the lower county), and the remainder within Oberland (the upper county).					1.0.0	1.0.0	1.0.0
geo loc name (country)	Line Islands	GAZ:00007144	A group of eleven atolls and low coral islands in the central Pacific Ocean south of the Hawaiian Islands, eight of which belong to Kiribati, while three are United States territories that are grouped with the United States Minor Outlying Islands.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Lithuania	GAZ:00002960	A country located along the south-eastern shore of the Baltic Sea, sharing borders with Latvia to the north, Belarus to the southeast, Poland, and the Russian exclave of the Kaliningrad Oblast to the southwest. Lithuania has a three-tier administrative division: the country is divided into 10 counties (singular apskritys, plural, apskritys) that are further subdivided into 60 municipalities (singular savivaldybe, plural savivaldybes) which consist of over 500 elderates (singular seniunija, plural seniunijos).					1.0.0	1.0.0	1.0.0
geo loc name (country)	Luxembourg	GAZ:00002947	A small landlocked country in western Europe, bordered by Belgium, France, and Germany. Luxembourg is divided into 3 districts, which are further divided into 12 cantons and then 116 communes. Twelve of the communes have city status, of which the city of Luxembourg is the largest.					1.0.0	1.0.0	1.0.0

geo loc name (country)	Macau	GAZ:00003202	One of the two special administrative regions of the People's Republic of China, the other being Hong Kong. Macau lies on the western side of the Pearl River Delta, bordering Guangdong province in the north and facing the South China Sea in the east and south. Macau is situated 60 kmsouthwest of Hong Kong and 145 km from Guangzhou. It consists of the Macau Peninsula itself and the islands of Taipa and Coloane. The peninsula is formed by the Zhujiang (Pearl River) estuary on the east and the Xijiang (West River) on the west. It borders the Zhuhai Special Economic Zone in mainland China.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Madagascar	GAZ:00001108	An island nation in the Indian Ocean off the southeastern coast of Africa. The main island, also called Madagascar, is the fourth largest island in the world, and is home to 5% of the world's plant and animal species, of which more than 80% are endemic to Madagascar. Most notable are the lemur infraorder of primates, the carnivorous fossa, three endemic bird families and six endemic baobab species. Madagascar is divided into six autonomous provinces (faritany mizakatena), and 22 regions. The regions are further subdivided into 116 districts, 1,548 communes, and 16,969 fokontany.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Malawi	GAZ:00001105	A country in southeastern Africa. It is bordered by Zambia to the north-west, Tanzania to the north and Mozambique, which surrounds it on the east, south and west. Malawi is divided into three regions (the Northern, Central and Southern regions), which are further divided into twenty-seven districts, which in turn are further divided into 137 traditional authorities and 68 sub-chiefdoms.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Malaysia	GAZ:00003902	A country in southeastern Africa. It is bordered by Zambia to the north-west, Tanzania to the north and Mozambique, which surrounds it on the east, south and west. Malawi is divided into three regions (the Northern, Central and Southern regions), which are further divided into twenty-seven districts, which in turn are further divided into 137 traditional authorities and 68 sub-chiefdoms.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Maldives	GAZ:00006924	An archipelago which consists of approximately 1,196 coral islands grouped in a double chain of 27 atolls, spread over roughly 90,000 km2.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Mali	GAZ:00000584	A landlocked country in northern Africa. It borders Algeria on the north, Niger on the east, Burkina Faso and the Cote d'Ivoire on the south, Guinea on the south-west, and Senegal and Mauritania on the west. Mali is divided into 8 regions (regions) and 1 district, and subdivided into 49 cercles, totalling 288 arrondissements.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Malta	GAZ:00004017	A Southern European country and consists of an archipelago situated centrally in the Mediterranean.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Marshall Islands	GAZ:00007161	An archipelago that consists of twenty-nine atolls and five isolated islands. The most important atolls and islands form two groups: the Ratak Chain and the Ralik Chain (meaning "sunrise" and "sunset" chains). Two-thirds of the nation's population lives on Majuro (which is also the capital) and Ebeye. The outer islands are sparsely populated.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Martinique	GAZ:00067143	An island and an overseas department/region and single territorial collectivity of France.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Mauritania	GAZ:00000583	A country in North-West Africa. It is bordered by the Atlantic Ocean on the west, by Senegal on the southwest, by Mali on the east and southeast, by Algeria on the northeast, and by Western Sahara on the northwest (most of which is occupied by Morocco). The capital and largest city is Nouakchott, located on the Atlantic coast. Mauritania is divided into 12 regions (regions) and one capital district, which in turn are subdivided into 44 departments (departements).				1.0.0	1.0.0	1.0.0
geo loc name (country)	Mauritius	GAZ:00003745	An island nation off the coast of the African continent in the southwest Indian Ocean, about 900 km east of Madagascar. In addition to the island of Mauritius, the republic includes the islands of St. Brandon, Rodrigues and the Agalega Islands.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Mayotte	GAZ:00003943	An overseas collectivity of France consisting of a main island, Grande-Terre (or Mahore), a smaller island, Petite-Terre (or Pamanzi), and several islets around these two.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Mexico	GAZ:00002852	A federal constitutional republic in North America. It is bounded on the north by the United States; on the south and west by the North Pacific Ocean; on the southeast by Guatemala, Belize, and the Caribbean Sea; and on the east by the Gulf of Mexico. The United Mexican States comprise a federation of thirty-one states and a federal district, the capital Mexico City.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Micronesia	GAZ:00005862	A subregion of Oceania, comprising hundreds of small islands in the Pacific Ocean. The Philippines lie to the northwest, Indonesia, Papua New Guinea and Melanesia to the west and southwest, and Polynesia to the east.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Midway Islands	GAZ:00007112	A 6.2 km2 atoll located in the North Pacific Ocean (near the northwestern end of the Hawaiian archipelago). It is an unincorporated territory of the United States, designated an insular area under the authority of the US Department of the Interior.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Moldova	GAZ:00003897	A landlocked country in Eastern Europe, located between Romania to the west and Ukraine to the north, east and south. Moldova is divided into thirty-two districts (raioane, singular raion); three municipalities (Balti, Chisinau, Tighina); and two autonomous regions (Gagauzia and Transnistria). The cities of Comrat and Tiraspol also have municipality status, however not as first-tier subdivisions of Moldova, but as parts of the regions of Gagauzia and Transnistria, respectively. The status of Transnistria is however under dispute. Although it is de jure part of Moldova and is recognized as such by the international community, Transnistria is not de facto under the control of the central government of Moldova. It is administered by an unrecognized breakaway authority under the name Pridnestrovian Moldovan Republic.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Monaco	GAZ:00003857	A small country that is completely bordered by France to the north, west, and south; to the east it is bordered by the Mediterranean Sea. It consists of a single municipality (commune) currently divided into 4 quartiers and 10 wards.				1.0.0	1.0.0	1.0.0

geo loc name (country)	Mongolia	GAZ:00008744	A country in East-Central Asia. The landlocked country borders Russia to the north and China to the south. The capital and largest city is Ulan Bator. Mongolia is divided into 21 aimags (provinces), which are in turn divided into 315 sums (districts). The capital Ulan Bator is administrated separately as a khot (municipality) with provincial status.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Montenegro	GAZ:00006898	A country located in Southeastern Europe. It has a coast on the Adriatic Sea to the south and borders Croatia to the west, Bosnia and Herzegovina to the northwest, Serbia and its partially recognized breakaway southern province of Kosovo to the northeast and Albania to the southeast. Its capital and largest city is Podgorica. Montenegro is divided into twenty-one municipalities (opstina), and two urban municipalities, subdivisions of Podgorica municipality.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Montserrat	GAZ:00003988	A British overseas territory located in the Leeward Islands. Montserrat is divided into three parishes.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Morocco	GAZ:00000565	A country in North Africa. It has a coast on the Atlantic Ocean that reaches past the Strait of Gibraltar into the Mediterranean Sea. Morocco has international borders with Algeria to the east, Spain to the north (a water border through the Strait and land borders with two small Spanish autonomous cities, Ceuta and Melilla), and Mauritania to the south. Morocco is divided into 16 regions, and subdivided into 62 prefectures and provinces. Because of the conflict over Western Sahara, the status of both regions of "Saguia el-Hamra" and "Rio de Oro" is disputed.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Mozambique	GAZ:00001100	A country in southeastern Africa bordered by the Indian Ocean to the east, Tanzania to the north, Malawi and Zambia to the northwest, Zimbabwe to the west and Swaziland and South Africa to the southwest. Mozambique is divided into ten provinces (provincias) and one capital city (cidade capital) with provincial status. The provinces are subdivided into 129 districts (distritos). Districts are further divided in "Postos Administrativos" (Administrative Posts) and these in Localidades (Localities) the lowest geographical level of central state administration.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Myanmar	GAZ:00006899	A country in SE Asia that is bordered by China on the north, Laos on the east, Thailand on the southeast, Bangladesh on the west, and India on the northwest, with the Bay of Bengal to the southwest. Myanmar is divided into seven states and seven divisions. The administrative divisions are further subdivided into districts, which are further subdivided into townships, wards, and villages.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Namibia	GAZ:00001096	A country in southern Africa on the Atlantic coast. It shares borders with Angola and Zambia to the north, Botswana to the east, and South Africa to the south. Namibia is divided into 13 regions and subdivided into 102 constituencies.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Nauru	GAZ:00006900	An island nation in the Micronesian South Pacific. The nearest neighbour is Banaba Island in the Republic of Kiribati, 300 km due east. Nauru is divided into fourteen administrative districts which are grouped into eight electoral constituencies.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Navassa Island	GAZ:00007119	A small, uninhabited island in the Caribbean Sea, and is an unorganized unincorporated territory of the United States, which administers it through the US Fish and Wildlife Service. The island is also claimed by Haiti.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Nepal	GAZ:00004399	A landlocked nation in South Asia. It is bordered by the Tibet Autonomous Region of the People's Republic of China to the northeast and India to the south and west; it is separated from Bhutan by the Indian State of Sikkim and from Bangladesh by a small strip of the Indian State of West Bengal, known as the "Chicken's Neck". The Himalaya mountain range runs across Nepal's north and western parts, and eight of the world's ten highest mountains, including the highest, Mount Everest are situated within its territory. Nepal is divided into 14 zones and 75 districts, grouped into 5 development regions.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Netherlands	GAZ:00002946	The European part of the Kingdom of the Netherlands. It is bordered by the North Sea to the north and west, Belgium to the south, and Germany to the east. The Netherlands is divided into twelve administrative regions, called provinces. All provinces of the Netherlands are divided into municipalities (gemeenten), together 443 (2007).				1.0.0	1.0.0	1.0.0
geo loc name (country)	New Caledonia	GAZ:00005206	A "sui generis collectivity" (in practice an overseas territory) of France, made up of a main island (Grande Terre), the Loyalty Islands, and several smaller islands. It is located in the region of Melanesia in the southwest Pacific. Administratively, the archipelago is divided into three provinces, and then into 33 communes.				1.0.0	1.0.0	1.0.0
geo loc name (country)	New Zealand	GAZ:00000469	A nation in the south-western Pacific Ocean comprising two large islands (the North Island and the South Island) and numerous smaller islands, most notably Stewart Island/Rakiura and the Chatham Islands.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Nicaragua	GAZ:00002978	A republic in Central America. It is also the least densely populated with a demographic similar in size to its smaller neighbors. The country is bordered by Honduras to the north and by Costa Rica to the south. The Pacific Ocean lies to the west of the country, while the Caribbean Sea lies to the east. For administrative purposes it is divided into 15 departments (departamentos) and two self-governing regions (autonomous communities) based on the Spanish model. The departments are then subdivided into 153 municipios (municipalities). The two autonomous regions are Region Autonoma del Atlantico Norte and Region Autonoma del Atlantico Sur, often referred to as RAN and RAAS, respectively. Until they were granted autonomy in 1985 they formed the single department of Zelaya.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Niger	GAZ:00000585	A landlocked country in Western Africa, named after the Niger River. It borders Nigeria and Benin to the south, Burkina Faso and Mali to the west, Algeria and Libya to the north and Chad to the east. The capital city is Niamey. Niger is divided into 7 departments and one capital district. The departments are subdivided into 36 arrondissements and further subdivided into 129 communes.				1.0.0	1.0.0	1.0.0

geo loc name (country)	Nigeria	GAZ:00000912	A federal constitutional republic comprising thirty-six states and one Federal Capital Territory. The country is located in West Africa and shares land borders with the Republic of Benin in the west, Chad and Cameroon in the east, and Niger in the north. Its coast lies on the Gulf of Guinea, part of the Atlantic Ocean, in the south. The capital city is Abuja. Nigeria is divided into thirty-six states and one Federal Capital Territory, which are further sub-divided into 774 Local Government Areas (LGAs).				1.0.0	1.0.0	1.0.0
geo loc name (country)	Niue	GAZ:00006902	An island nation located in the South Pacific Ocean. Although self-governing, Niue is in free association with New Zealand, meaning that the Sovereign in Right of New Zealand is also Niue's head of state.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Norfolk Island	GAZ:00005908	A Territory of Australia that includes Norfolk Island and neighboring islands.				1.0.0	1.0.0	1.0.0
geo loc name (country)	North Korea	GAZ:00002801	A state in East Asia in the northern half of the Korean Peninsula, with its capital in the city of Pyongyang. To the south and separated by the Korean Demilitarized Zone is South Korea, with which it formed one nation until division following World War II. At its northern Amnok River border are China and, separated by the Tumen River in the extreme north-east, Russia.				1.0.0	1.0.0	1.0.0
geo loc name (country)	North Macedonia	GAZ:00006895	A landlocked country on the Balkan peninsula in southeastern Europe. It is bordered by Serbia and Kosovo to the north, Albania to the west, Greece to the south, and Bulgaria to the east. In 2004-08, the Republic of Macedonia was reorganised into 85 municipalities (opštini; singular opština), 10 of which comprise Greater Skopje. This is reduced from the previous 123 municipalities established in 1996-09. Prior to this, local government was organised into 34 administrative districts.				1.0.0	1.0.0	1.0.0
geo loc name (country)	North Sea	GAZ:00002284	A sea situated between the eastern coasts of the British Isles and the western coast of Europe.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Northern Mariana Islands	GAZ:00003958	A group of 15 islands about three-quarters of the way from Hawaii to the Philippines.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Norway	GAZ:00002699	A country and constitutional monarchy in Northern Europe that occupies the western portion of the Scandinavian Peninsula. It is bordered by Sweden, Finland, and Russia. The Kingdom of Norway also includes the Arctic island territories of Svalbard and Jan Mayen. Norwegian sovereignty over Svalbard is based upon the Svalbard Treaty, but that treaty does not apply to Jan Mayen. Bouvet Island in the South Atlantic Ocean and Peter I Island and Queen Maud Land in Antarctica are external dependencies, but those three entities do not form part of the kingdom.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Oman	GAZ:00005283	A country in southwest Asia, on the southeast coast of the Arabian Peninsula. It borders the United Arab Emirates on the northwest, Saudi Arabia on the west, and Yemen on the southwest. The coast is formed by the Arabian Sea on the south and east, and the Gulf of Oman on the northeast. The country also contains Madha, an exclave enclosed by the United Arab Emirates, and Musandam, an exclave also separated by Emirati territory. Oman is divided into four governorates (muhafazah) and five regions (mintaqat). The regions are subdivided into provinces (wilayat).				1.0.0	1.0.0	1.0.0
geo loc name (country)	Pakistan	GAZ:00005246	A country in Middle East which lies on the Iranian Plateau and some parts of South Asia. It is located in the region where South Asia converges with Central Asia and the Middle East. It has a 1,046 km coastline along the Arabian Sea in the south, and is bordered by Afghanistan and Iran in the west, India in the east and China in the far northeast. Pakistan is subdivided into four provinces and two territories. In addition, the portion of Kashmir that is administered by the Pakistani government is divided into two separate administrative units. The provinces are divided into a total of 105 zillas (districts). A zilla is further subdivided into tehsils (roughly equivalent to counties). Tehsils may contain villages or municipalities. There are over five thousand local governments in Pakistan.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Palau	GAZ:00006905	A nation that consists of eight principal islands and more than 250 smaller ones lying roughly 500 miles southeast of the Philippines.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Panama	GAZ:00002892	The southernmost country of Central America. Situated on an isthmus, some categorize it as a transcontinental nation connecting the north and south part of America. It borders Costa Rica to the north-west, Colombia to the south-east, the Caribbean Sea to the north and the Pacific Ocean to the south. Panama's major divisions are nine provinces and five indigenous territories (comarcas indígenas). The provincial borders have not changed since they were determined at independence in 1903. The provinces are divided into districts, which in turn are subdivided into sections called corregimientos. Configurations of the corregimientos are changed periodically to accommodate population changes as revealed in the census reports.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Papua New Guinea	GAZ:00003922	A country in Oceania that comprises the eastern half of the island of New Guinea and its offshore islands in Melanesia (a region of the southwestern Pacific Ocean north of Australia).				1.0.0	1.0.0	1.0.0
geo loc name (country)	Paracel Islands	GAZ:00010832	A group of small islands and reefs in the South China Sea, about one-third of the way from Vietnam to the Philippines.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Paraguay	GAZ:00002933	A landlocked country in South America. It lies on both banks of the Paraguay River, bordering Argentina to the south and southwest, Brazil to the east and northeast, and Bolivia to the northwest, and is located in the very heart of South America. Paraguay consists of seventeen departments and one capital district (distrito capital). Each department is divided into districts.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Peru	GAZ:00002932	A country in western South America. It is bordered on the north by Ecuador and Colombia, on the east by Brazil, on the southeast by Bolivia, on the south by Chile, and on the west by the Pacific Ocean. Peru is divided into 25 regions and the province of Lima. These regions are subdivided into provinces, which are composed of districts (provincias and distritos). There are 195 provinces and 1833 districts in Peru. The Lima Province, located in the central coast of the country, is unique in that it doesn't belong to any of the twenty-five regions. The city of Lima, which is the nation's capital, is located in this province. Callao is its own region, even though it only contains one province, the Constitutional Province of Callao.				1.0.0	1.0.0	1.0.0

geo loc name (country)	Philippines	GAZ:00004525	An archipelagic nation located in Southeast Asia. The Philippine archipelago comprises 7,107 islands in the western Pacific Ocean, bordering countries such as Indonesia, Malaysia, Palau and the Republic of China, although it is the only Southeast Asian country to share no land borders with its neighbors. The Philippines is divided into three island groups: Luzon, Visayas, and Mindanao. These are divided into 17 regions, 81 provinces, 136 cities, 1,494 municipalities and 41,995 barangays.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Pitcairn Islands	GAZ:00005867	A group of four islands in the southern Pacific Ocean. The Pitcairn Islands form the southeasternmost extension of the geological archipelago of the Tuamotus of French Polynesia.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Poland	GAZ:00002939	A country in Central Europe. Poland is bordered by Germany to the west; the Czech Republic and Slovakia to the south; Ukraine, Belarus and Lithuania to the east; and the Baltic Sea and Kaliningrad Oblast, a Russian exclave, to the north. The administrative division of Poland since 1999 has been based on three levels of subdivision. The territory of Poland is divided into voivodeships (provinces); these are further divided into powiats (counties), and these in turn are divided into gminas (communes or municipalities). Major cities normally have the status of both gmina and powiat. Poland currently has 16 voivodeships, 379 powiats (including 65 cities with powiat status), and 2,478 gminas.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Portugal	GAZ:00004126	That part of the Portuguese Republic that occupies the W part of the Iberian Peninsula, and immediately adjacent islands.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Puerto Rico	GAZ:00006935	A semi-autonomous territory composed of an archipelago in the northeastern Caribbean, east of the Dominican Republic and west of the Virgin Islands, approximately 2,000 km off the coast of Florida (the nearest of the mainland United States).				1.0.0	1.0.0	1.0.0
geo loc name (country)	Qatar	GAZ:00005286	An Arab emirate in Southwest Asia, occupying the small Qatar Peninsula on the northeasterly coast of the larger Arabian Peninsula. It is bordered by Saudi Arabia to the south; otherwise the Persian Gulf surrounds the state. Qatar is divided into ten municipalities (Arabic: baladiyah), which are further divided into zones (districts).				1.0.0	1.0.0	1.0.0
geo loc name (country)	Republic of the Congo	GAZ:00001088	A country in Central Africa. It is bordered by Gabon, Cameroon, the Central African Republic, the Democratic Republic of the Congo, the Angolan exclave province of Cabinda, and the Gulf of Guinea. The Republic of the Congo is divided into 10 regions (regions) and one commune, the capital Brazzaville. The regions are subdivided into forty-six districts.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Reunion	GAZ:00003945	An island, located in the Indian Ocean east of Madagascar, about 200 km south west of Mauritius, the nearest island.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Romania	GAZ:00002951	A country in Southeastern Europe. It shares a border with Hungary and Serbia to the west, Ukraine and the Republic of Moldova to the northeast, and Bulgaria to the south. Romania has a stretch of sea coast along the Black Sea. It is located roughly in the lower basin of the Danube and almost all of the Danube Delta is located within its territory. Romania is divided into forty-one counties (judete), as well as the municipality of Bucharest (Bucuresti) - which is its own administrative unit. The country is further subdivided into 319 cities and 2686 communes (rural localities).				1.0.0	1.0.0	1.0.0
geo loc name (country)	Ross Sea	GAZ:00023304	A large embayment of the Southern Ocean, extending deeply into Antarctica between Cape Adare, at 170degE, on the west and Cape Colbeck on the east, at 158degW.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Russia	GAZ:00002721	A transcontinental country extending over much of northern Eurasia. Russia shares land borders with the following countries (counter-clockwise from northwest to southeast): Norway, Finland, Estonia, Latvia, Lithuania (Kaliningrad Oblast), Poland (Kaliningrad Oblast), Belarus, Ukraine, Georgia, Azerbaijan, Kazakhstan, China, Mongolia and North Korea. The Russian Federation comprises 83 federal subjects: 46 oblasts(provinces), 21 republics, 9 krais (territories), 4 autonomous okrugs (autonomous districts), one autonomous oblast, and two federal cities. The federal subjects are grouped into seven federal districts. These subjects are divided into districts (raions), cities/towns and urban-type settlements, and, at level 4, selsoviets (rural councils), towns and urban-type settlements under the jurisdiction of the district and city districts.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Rwanda	GAZ:00001087	A small landlocked country in the Great Lakes region of east-central Africa, bordered by Uganda, Burundi, the Democratic Republic of the Congo and Tanzania. Rwanda is divided into five provinces (intara) and subdivided into thirty districts (akarere). The districts are divided into sectors (imirenge).				1.0.0	1.0.0	1.0.0
geo loc name (country)	Saint Helena	GAZ:00000849	An island of volcanic origin and a British overseas territory in the South Atlantic Ocean.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Saint Kitts and Nevis	GAZ:00006906	A federal two-island nation in the West Indies. Located in the Leeward Islands. Saint Kitts and Nevis are geographically part of the Leeward Islands. To the north-northwest lie the islands of Saint Eustatius, Saba, Saint Barthelemy, and Saint-Martin/Sint Maarten. To the east and northeast are Antigua and Barbuda, and to the southeast is the small uninhabited island of Redonda, and the island of Montserrat. The federation of Saint Kitts and Nevis is divided into fourteen parishes: nine divisions on Saint Kitts and five on Nevis.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Saint Lucia	GAZ:00006909	An island nation in the eastern Caribbean Sea on the boundary with the Atlantic Ocean.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Saint Pierre and Miquelon	GAZ:00003942	An Overseas Collectivity of France located in a group of small islands in the North Atlantic Ocean, the main ones being Saint Pierre and Miquelon, 25 km off the coast of Newfoundland, Canada. Saint Pierre and Miquelon became an overseas department in 1976, but its status changed to that of an Overseas collectivity in 1985.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Saint Martin	GAZ:00005841	An overseas collectivity of France that came into being on 2007-02-22, encompassing the northern parts of the island of Saint Martin and neighboring islets. The southern part of the island, Sint Maarten, is part of the Netherlands Antilles. Formerly, with Saint-Barthelemy, an arrondissement of Guadeloupe.				1.0.0	1.0.0	1.0.0

geo loc name (country)	Saint Vincent and the Grenadines	GAZ:02000565	An island nation in the Lesser Antilles chain of the Caribbean Sea.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Samoa	GAZ:00006910	A country governing the western part of the Samoan Islands archipelago in the South Pacific Ocean. Samoa is made up of eleven itumalo (political districts).				1.0.0	1.0.0	1.0.0
geo loc name (country)	San Marino	GAZ:00003102	A country in the Apennine Mountains. It is a landlocked enclave, completely surrounded by Italy. San Marino is an enclave in Italy, on the border between the region of Emilia Romagna and Marche. Its topography is dominated by the Apennines mountain range. San Marino is divided into nine municipalities, known locally as Castelli (singular castello).				1.0.0	1.0.0	1.0.0
geo loc name (country)	Sao Tome and Principe	GAZ:00006927	An island nation in the Gulf of Guinea, off the western equatorial coast of Africa. It consists of two islands: Sao Tome and Principe, located about 140 km apart and about 250 and 225 km respectively, off of the northwestern coast of Gabon. Both islands are part of an extinct volcanic mountain range. Sao Tome and Principe is divided into 2 provinces: Principe, Sao Tome. The provinces are further divided into seven districts, six on Sao Tome and one on Principe (with Principe having self-government since 1995-04-29).				1.0.0	1.0.0	1.0.0
geo loc name (country)	Saudi Arabia	GAZ:00005279	A country on the Arabian Peninsula. It is bordered by Jordan on the northwest, Iraq on the north and northeast, Kuwait, Qatar, Bahrain, and the United Arab Emirates on the east, Oman on the southeast, and Yemen on the south. The Persian Gulf lies to the northeast and the Red Sea to its west. Saudi Arabia is divided into 13 provinces or regions (manatiq; singular mintaqah). Each is then divided into Governorates.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Senegal	GAZ:00000913	A country south of the Senegal River in western Africa. Senegal is bounded by the Atlantic Ocean to the west, Mauritania to the north, Mali to the east, and Guinea and Guinea-Bissau to the south. The Gambia lies almost entirely within Senegal, surrounded on the north, east and south; from its western coast Gambia's territory follows the Gambia River more than 300 km inland. Dakar is the capital city of Senegal, located on the Cape Verde Peninsula on the country's Atlantic coast. Senegal is subdivided into 11 regions and further subdivided into 34 Departements, 103 Arrondissements (neither of which have administrative function) and by Collectivites Locales.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Serbia	GAZ:00002957	A landlocked country in Central and Southeastern Europe, covering the southern part of the Pannonian Plain and the central part of the Balkan Peninsula. It is bordered by Hungary to the north; Romania and Bulgaria to the east; Republic of Macedonia, Montenegro to the south; Croatia and Bosnia and Herzegovina to the west. The capital is Belgrade. Serbia is divided into 29 districts plus the City of Belgrade. The districts and the city of Belgrade are further divided into municipalities. Serbia has two autonomous provinces: Kosovo and Metohija in the south (5 districts, 30 municipalities), and Vojvodina in the north (7 districts, 46 municipalities).				1.0.0	1.0.0	1.0.0
geo loc name (country)	Seychelles	GAZ:00006922	An archipelagic island country in the Indian Ocean at the eastern edge of the Somali Sea. It consists of 115 islands.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Sierra Leone	GAZ:00000914	A country in West Africa. It is bordered by Guinea in the north and east, Liberia in the southeast, and the Atlantic Ocean in the southwest and west. The Republic of Sierra Leone is composed of 3 provinces and one area called the Western Area; the provinces are further divided into 12 districts. The Western Area is also divided into 2 districts.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Singapore	GAZ:00003923	An island nation located at the southern tip of the Malay Peninsula. It lies 137 km north of the Equator, south of the Malaysian State of Johor and north of Indonesia's Riau Islands. Singapore consists of 63 islands, including mainland Singapore. There are two man-made connections to Johor, Malaysia, Johor-Singapore Causeway in the north, and Tuas Second Link in the west. Since 2001-11-24, Singapore has had an administrative subdivision into 5 districts. It is also divided into five Regions, urban planning subdivisions with no administrative role.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Sint Maarten	GAZ:00012579	One of five island areas (Eilandgebieden) of the Netherlands Antilles, encompassing the southern half of the island of Saint Martin/Sint Maarten.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Slovakia	GAZ:00002956	A landlocked country in Central Europe. The Slovak Republic borders the Czech Republic and Austria to the west, Poland to the north, Ukraine to the east and Hungary to the south. The largest city is its capital, Bratislava. Slovakia is subdivided into 8 kraje (singular - kraj, usually translated as regions. The kraje are subdivided into many okresy (singular okres, usually translated as districts). Slovakia currently has 79 districts.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Slovenia	GAZ:00002955	A country in southern Central Europe bordering Italy to the west, the Adriatic Sea to the southwest, Croatia to the south and east, Hungary to the northeast, and Austria to the north. The capital of Slovenia is Ljubljana. As of 2005-05 Slovenia is divided into 12 statistical regions for legal and statistical purposes. Slovenia is divided into 210 local municipalities, eleven of which have urban status.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Solomon Islands	GAZ:00005275	A nation in Melanesia, east of Papua New Guinea, consisting of nearly one thousand islands. Together they cover a land mass of 28,400 km2. The capital is Honiara, located on the island of Guadalcanal.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Somalia	GAZ:00001104	A country located in the Horn of Africa. It is bordered by Djibouti to the northwest, Kenya on its southwest, the Gulf of Aden with Yemen on its north, the Indian Ocean at its east, and Ethiopia to the west. Prior to the civil war, Somalia was divided into eighteen regions (gobollada, singular gobol), which were in turn subdivided into districts. On a de facto basis, northern Somalia is now divided up among the quasi-independent states of Puntland, Somaliland, Galmudug and Maakhir.				1.0.0	1.0.0	1.0.0

geo loc name (country)	South Africa	GAZ:00001094	A country located at the southern tip of Africa. It borders the Atlantic and Indian oceans and Namibia, Botswana, Zimbabwe, Mozambique, Swaziland, and Lesotho, an independent enclave surrounded by South African territory. It is divided into nine provinces which are further subdivided into 52 districts: 6 metropolitan and 46 district municipalities. The 46 district municipalities are further subdivided into 231 local municipalities. The district municipalities also contain 20 district management areas (mostly game parks) that are directly governed by the district municipalities. The six metropolitan municipalities perform the functions of both district and local municipalities.					1.0.0	1.0.0	1.0.0
geo loc name (country)	South Georgia and the South Sandwich Islands	GAZ:00003990	A British overseas territory in the southern Atlantic Ocean. It consists of South Georgia and the Sandwich Islands, some 640 km to the SE.					1.0.0	1.0.0	1.0.0
geo loc name (country)	South Korea	GAZ:00002802	A republic in East Asia, occupying the southern half of the Korean Peninsula. South Korea is divided into 8 provinces (do), 1 special autonomous province (teukbyeol jachido), 6 metropolitan cities (gwangyeoksi), and 1 special city (teukbyeolsi). These are further subdivided into a variety of smaller entities, including cities (si), counties (gun), districts (gu), towns (eup), townships (myeon), neighborhoods (dong) and villages (ri).					1.0.0	1.0.0	1.0.0
geo loc name (country)	South Sudan	GAZ:00233439	A state located in Africa with Juba as its capital city. It's bordered by Ethiopia to the east, Kenya, Uganda, and the Democratic Republic of the Congo to the south, and the Central African Republic to the west and Sudan to the North. Southern Sudan includes the vast swamp region of the Sudd formed by the White Nile, locally called the Bahr el Jebel.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Spain	GAZ:00003936	That part of the Kingdom of Spain that occupies the Iberian Peninsula plus the Balearic Islands. The Spanish mainland is bordered to the south and east almost entirely by the Mediterranean Sea (except for a small land boundary with Gibraltar); to the north by France, Andorra, and the Bay of Biscay; and to the west by the Atlantic Ocean and Portugal.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Spratty Islands	GAZ:00010831	A group of >100 islands located in the Southeastern Asian group of reefs and islands in the South China Sea, about two-thirds of the way from southern Vietnam to the southern Philippines.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Sri Lanka	GAZ:00003924	An island nation in South Asia, located about 31 km off the southern coast of India. Sri Lanka is divided into 9 provinces and 25 districts. Districts are divided into Divisional Secretariats.					1.0.0	1.0.0	1.0.0
geo loc name (country)	State of Palestine	GAZ:00002475	The territory under the administration of the Palestine National Authority, as established by the Oslo Accords. The PNA divides the Palestinian territories into 16 governorates.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Sudan	GAZ:00000560	A country in North Africa. It is bordered by Egypt to the north, the Red Sea to the northeast, Eritrea and Ethiopia to the east, Kenya and Uganda to the southeast, Democratic Republic of the Congo and the Central African Republic to the southwest, Chad to the west and Libya to the northwest. Sudan is divided into twenty-six states (wilayah, singular wilayah) which in turn are subdivided into 133 districts.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Suriname	GAZ:00002525	A country in northern South America. It is situated between French Guiana to the east and Guyana to the west. The southern border is shared with Brazil and the northern border is the Atlantic coast. The southernmost border with French Guiana is disputed along the Marowijne river. Suriname is divided into 10 districts, each of which is divided into Ressoriten.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Svalbard	GAZ:00005396	An archipelago of continental islands lying in the Arctic Ocean north of mainland Europe, about midway between Norway and the North Pole.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Swaziland	GAZ:00001099	A small, landlocked country in Africa embedded between South Africa in the west, north and south and Mozambique in the east. Swaziland is divided into four districts, each of which is divided into Tinkhundla (singular, Inkhundla).					1.0.0	1.0.0	1.0.0
geo loc name (country)	Sweden	GAZ:00002729	A Nordic country on the Scandinavian Peninsula in Northern Europe. It has borders with Norway (west and north) and Finland (northeast). Sweden is a unitary state, currently divided into twenty-one counties (lan). Each county further divides into a number of municipalities or kommuner, with a total of 290 municipalities in 2004.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Switzerland	GAZ:00002941	A federal republic in Europe. Switzerland is bordered by Germany, France, Italy, Austria and Liechtenstein. The Swiss Confederation consists of 26 cantons. The Cantons comprise a total of 2,889 municipalities. Within Switzerland there are two enclaves: Busingen belongs to Germany, Campione d'Italia belongs to Italy.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Syria	GAZ:00002474	A country in Southwest Asia, bordering Lebanon, the Mediterranean Sea and the island of Cyprus to the west, Israel to the southwest, Jordan to the south, Iraq to the east, and Turkey to the north. Syria has fourteen governorates, or muhafazat (singular: muhafazah). The governorates are divided into sixty districts, or manatiq (singular: mintaqah), which are further divided into sub-districts, or nawahi (singular: nahia).					1.0.0	1.0.0	1.0.0
geo loc name (country)	Taiwan	GAZ:00005341	A state in East Asia with de facto rule of the island of Tawain and adjacent territory. The Republic of China currently administers two historical provinces of China (one completely and a small part of another one) and centrally administers two direct-controlled municipalities.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Tajikistan	GAZ:00006912	A mountainous landlocked country in Central Asia. Afghanistan borders to the south, Uzbekistan to the west, Kyrgyzstan to the north, and People's Republic of China to the east. Tajikistan consists of 4 administrative divisions. These are the provinces (viloyat) of Sughd and Khatlon, the autonomous province of Gorno-Badakhshan (abbreviated as GBAO), and the Region of Republican Subordination (RRP, Raiony Respublikanskogo Podchineniya in Russian; formerly known as Karotegin Province). Each region is divided into several districts (nohiya or raion).					1.0.0	1.0.0	1.0.0

geo loc name (country)	Tanzania	GAZ:00001103	A country in East Africa bordered by Kenya and Uganda on the north, Rwanda, Burundi and the Democratic Republic of the Congo on the west, and Zambia, Malawi and Mozambique on the south. To the east it borders the Indian Ocean. Tanzania is divided into 26 regions (mkoa), twenty-one on the mainland and five on Zanzibar (three on Unguja, two on Pemba). Ninety-eight districts (wilaya), each with at least one council, have been created to further increase local authority; the councils are also known as local government authorities. Currently there are 114 councils operating in 99 districts; 22 are urban and 92 are rural. The 22 urban units are further classified as city councils (Dar es Salaam and Mwanza), municipal councils (Arusha, Dodoma, Iringa, Kilimanjaro, Mbeya, Morogoro, Shinyanga, Tabora, and Tanga) or town councils (the remaining eleven communities).				1.0.0	1.0.0	1.0.0
geo loc name (country)	Thailand	GAZ:00003744	A country in Southeast Asia. To its east lie Laos and Cambodia; to its south, the Gulf of Thailand and Malaysia; and to its west, the Andaman Sea and Burma. Its capital and largest city is Bangkok. Thailand is divided into 75 provinces (changwat), which are gathered into 5 groups of provinces by location. There are also 2 special governed districts: the capital Bangkok (Krung Thep Maha Nakhon) and Pattaya, of which Bangkok is at provincial level and thus often counted as a 76th province.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Timor-Leste	GAZ:000006913	A country in Southeast Asia. It comprises the eastern half of the island of Timor, the nearby islands of Atauro and Jaco, and Oecussi-Ambeno, an exclave on the northwestern side of the island, within Indonesian West Timor. The small country of 15,410 km2 is located about 640 km northwest of Darwin, Australia. East Timor is divided into thirteen administrative districts, are subdivided into 65 subdistricts, 443 sucos and 2,336 towns, villages and hamlets.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Togo	GAZ:000000915	A country in West Africa bordering Ghana in the west, Benin in the east and Burkina Faso in the north. In the south, it has a short Gulf of Guinea coast, on which the capital Lome is located.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Tokelau	GAZ:00260188	A dependent territory of New Zealand in the southern Pacific Ocean. It consists of three tropical coral atolls: Atafu, Nukunonu, and Fakaofu. They have a combined land area of 10 km2 (4 sq mi).				1.0.0	1.0.0	1.0.0
geo loc name (country)	Tonga	GAZ:000006916	A Polynesian country, and also an archipelago comprising 169 islands, of which 36 are inhabited. The archipelago's total surface area is about 750 square kilometres (290 sq mi) scattered over 700,000 square kilometres (270,000 sq mi) of the southern Pacific Ocean.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Trinidad and Tobago	GAZ:00003767	An archipelagic state in the southern Caribbean, lying northeast of the South American nation of Venezuela and south of Grenada in the Lesser Antilles. It also shares maritime boundaries with Barbados to the northeast and Guyana to the southeast. The country covers an area of 5,128 km2 and consists of two main islands, Trinidad and Tobago, and 21 smaller islands.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Tromelin Island	GAZ:000005812	A low, flat 0.8 km2 island in the Indian Ocean, about 350 km east of Madagascar. Tromelin is a low, scrub-covered sandbank about 1,700 m long and 700 m wide, surrounded by coral reefs. The island is 7 m high at its highest point.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Tunisia	GAZ:000000562	A country situated on the Mediterranean coast of North Africa. It is bordered by Algeria to the west and Libya to the southeast. Tunisia is subdivided into 24 governorates, divided into 262 "delegations" or "districts" (mutamadiyat), and further subdivided into municipalities (shaykhats).				1.0.0	1.0.0	1.0.0
geo loc name (country)	Turkey	GAZ:000000558	A Eurasian country that stretches across the Anatolian peninsula in western Asia and Thrace (Rumelia) in the Balkan region of southeastern Europe. Turkey borders eight countries: Bulgaria to the northwest; Greece to the west, Georgia to the northeast; Armenia, Azerbaijan (the exclave of Nakhichevan), and Iran to the east; and Iraq and Syria to the southeast. The Mediterranean Sea and Cyprus are to the south; the Aegean Sea and Archipelago are to the west; and the Black Sea is to the north. Separating Anatolia and Thrace are the Sea of Marmara and the Turkish Straits (the Bosphorus and the Dardanelles), which are commonly reckoned to delineate the border between Asia and Europe, thereby making Turkey transcontinental. The territory of Turkey is subdivided into 81 provinces for administrative purposes. The provinces are organized into 7 regions for census purposes; however, they do not represent an administrative structure. Each province is divided into districts, for a total of 923 districts.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Turkmenistan	GAZ:000005018	A country in Central Asia. It is bordered by Afghanistan to the southeast, Iran to the southwest, Uzbekistan to the northeast, Kazakhstan to the northwest, and the Caspian Sea to the west. It was a constituent republic of the Soviet Union, the Turkmen Soviet Socialist Republic. Turkmenistan is divided into five provinces or welayatlar (singular - welayat) and one independent city.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Turks and Caicos Islands	GAZ:00003955	A British Overseas Territory consisting of two groups of tropical islands in the West Indies. The Turks and Caicos Islands are divided into six administrative districts (two in the Turks Islands and four in the Caicos Islands).				1.0.0	1.0.0	1.0.0
geo loc name (country)	Tuvalu	GAZ:000009715	A Polynesian island nation located in the Pacific Ocean midway between Hawaii and Australia.				1.0.0	1.0.0	1.0.0

geo loc name (country)	United States of America	GAZ:00002459	A federal constitutional republic comprising fifty states and a federal district. The country is situated mostly in central North America, where its forty-eight contiguous states and Washington, DC, the capital district, lie between the Pacific and Atlantic Oceans, bordered by Canada to the north and Mexico to the south. The State of Alaska is in the northwest of the continent, with Canada to its east and Russia to the west across the Bering Strait, and the State of Hawaii is in the mid-Pacific. The United States also possesses several territories, or insular areas, that are scattered around the Caribbean and Pacific. The states are divided into smaller administrative regions, called counties in most states, exceptions being Alaska (parts of the state are organized into subdivisions called boroughs; the rest of the state's territory that is not included in any borough is divided into "census areas"), and Louisiana (which is divided into county-equivalents that are called parishes). There are also independent cities which are within particular states but not part of any particular county or consolidated city-counties. Another type of organization is where the city and county are unified and function as an independent city. There are thirty-nine independent cities in Virginia and other independent cities or city-counties are San Francisco, California, Baltimore, Maryland, St. Louis, Missouri, Denver, Colorado and Carson City, Nevada. Counties can include a number of cities, towns, villages, or hamlets, or sometimes just a part of a city. Counties have varying degrees of political and legal significance, but they are always administrative divisions of the state. Counties in many states are further subdivided into townships, which, by definition, are administrative divisions of a county. In some states, such as Michigan, a township can file a charter with the state government, making itself into a "charter township", which is a type of mixed municipal and township status (giving the township some of the rights of a city without all of the responsibilities), much in the way a metropolitan municipality is a mixed municipality and county.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Uganda	GAZ:00001102	A landlocked country in East Africa, bordered on the east by Kenya, the north by Sudan, on the west by the Democratic Republic of the Congo, on the southwest by Rwanda, and on the south by Tanzania. The southern part of the country includes a substantial portion of Lake Victoria, within which it shares borders with Kenya and Tanzania. Uganda is divided into 80 districts, spread across four administrative regions: Northern, Eastern, Central and Western. The districts are subdivided into counties.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Ukraine	GAZ:00002724	A country in Eastern Europe. It borders Russia to the east, Belarus to the north, Poland, Slovakia and Hungary to the west, Romania and Moldova to the southwest, and the Black Sea and Sea of Azov to the south. Ukraine is subdivided into twenty-four oblasts (provinces) and one autonomous republic (avtonomna respublika), Crimea. Additionally, the cities of Kiev, the capital, and Sevastopol, both have a special legal status. The 24 oblasts and Crimea are subdivided into 490 raions (districts), or second-level administrative units.					1.0.0	1.0.0	1.0.0
geo loc name (country)	United Arab Emirates	GAZ:00005282	A Middle Eastern federation of seven states situated in the southeast of the Arabian Peninsula in Southwest Asia on the Persian Gulf, bordering Oman and Saudi Arabia. The seven states, termed emirates, are Abu Dhabi, Ajman, Dubai, Fujairah, Ras al-Khaimah, Sharjah, and Umm al-Quwain.					1.0.0	1.0.0	1.0.0
geo loc name (country)	United Kingdom	GAZ:00002637	A sovereign island country located off the northwestern coast of mainland Europe comprising of the four constituent countries; England, Scotland, Wales and Northern Ireland. It comprises the island of Great Britain, the northeast part of the island of Ireland and many small islands. Apart from Northern Ireland the UK is surrounded by the Atlantic Ocean, the North Sea, the English Channel and the Irish Sea. The largest island, Great Britain, is linked to France by the Channel Tunnel.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Uruguay	GAZ:00002930	A country located in the southeastern part of South America. It is bordered by Brazil to the north, by Argentina across the bank of both the Uruguay River to the west and the estuary of Rio de la Plata to the southwest, and the South Atlantic Ocean to the southeast. Uruguay consists of 19 departments (departamentos, singular - departamento).					1.0.0	1.0.0	1.0.0
geo loc name (country)	Uzbekistan	GAZ:00004979	A doubly landlocked country in Central Asia, formerly part of the Soviet Union. It shares borders with Kazakhstan to the west and to the north, Kyrgyzstan and Tajikistan to the east, and Afghanistan and Turkmenistan to the south. Uzbekistan is divided into twelve provinces (viloyatlar) one autonomous republic (respublika and one independent city (shahar).					1.0.0	1.0.0	1.0.0
geo loc name (country)	Vanuatu	GAZ:00006918	An island country located in the South Pacific Ocean. The archipelago, which is of volcanic origin, is 1,750 kilometres (1,090 mi) east of northern Australia, 540 kilometres (340 mi) northeast of New Caledonia, east of New Guinea, southeast of the Solomon Islands, and west of Fiji.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Venezuela	GAZ:00002931	A country on the northern coast of South America. The country comprises a continental mainland and numerous islands located off the Venezuelan coastline in the Caribbean Sea. The Bolivarian Republic of Venezuela possesses borders with Guyana to the east, Brazil to the south, and Colombia to the west. Trinidad and Tobago, Grenada, St. Lucia, Barbados, Curacao, Bonaire, Aruba, Saint Vincent and the Grenadines and the Leeward Antilles lie just north, off the Venezuelan coast. Venezuela is divided into twenty-three states (Estados), a capital district (distrito capital) corresponding to the city of Caracas, the Federal Dependencies (Dependencias Federales, a special territory), and Guayana Esequiba (claimed in a border dispute with Guyana). Venezuela is further subdivided into 335 municipalities (municipios); these are subdivided into over one thousand parishes (parroquias).					1.0.0	1.0.0	1.0.0
geo loc name (country)	Viet Nam	GAZ:00003756	The easternmost country on the Indochina Peninsula in Southeast Asia. It borders the Gulf of Thailand, Gulf of Tonkin, and South China Sea, alongside China, Laos, and Cambodia.					1.0.0	1.0.0	1.0.0
geo loc name (country)	Virgin Islands	GAZ:00003959	A group of islands in the Caribbean that are an insular area of the United States. The islands are geographically part of the Virgin Islands archipelago and are located in the Leeward Islands of the Lesser Antilles. The US Virgin Islands are an organized, unincorporated United States territory. The US Virgin Islands are administratively divided into two districts and subdivided into 20 sub-districts.					1.0.0	1.0.0	1.0.0

geo loc name (country)	Wake Island	GAZ:00007111	A coral atoll (despite its name) having a coastline of 19 km in the North Pacific Ocean, located about two-thirds of the way from Honolulu (3,700 km west) to Guam (2,430 km east).				1.0.0	1.0.0	1.0.0
geo loc name (country)	Wallis and Futuna	GAZ:00007191	A Polynesian French island territory (but not part of, or even contiguous with, French Polynesia) in the South Pacific between Fiji and Samoa. It is made up of three main volcanic tropical islands and a number of tiny islets.				1.0.0	1.0.0	1.0.0
geo loc name (country)	West Bank	GAZ:00009572	A landlocked territory near the Mediterranean coast of Western Asia, bordered by Jordan and the Dead Sea to the east and by Israel to the south, west and north.[2] Under Israeli occupation since 1967, the area is split into 167 Palestinian "islands" under partial Palestinian National Authority civil rule, and 230 Israeli settlements into which Israeli law is "pipelined".				1.0.0	1.0.0	1.0.0
geo loc name (country)	Western Sahara	GAZ:00000564	A territory of northwestern Africa, bordered by Morocco to the north, Algeria in the northeast, Mauritania to the east and south, and the Atlantic Ocean on the west. Western Sahara is administratively divided into four regions.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Yemen	GAZ:00005284	A country located on the Arabian Peninsula in Southwest Asia. Yemen is bordered by Saudi Arabia to the North, the Red Sea to the West, the Arabian Sea and Gulf of Aden to the South, and Oman to the east. Yemen's territory includes over 200 islands, the largest of which is Socotra, about 415 km to the south of Yemen, off the coast of Somalia. As of 2004-02, Yemen is divided into twenty governorates (muhafazah) and one municipality. The population of each governorate is listed in the table below. The governorates of Yemen are divided into 333 districts (muderiah). The districts are subdivided into 2,210 sub-districts, and then into 38,284 villages (as of 2001).				1.0.0	1.0.0	1.0.0
geo loc name (country)	Zambia	GAZ:00001107	A landlocked country in Southern Africa. The neighbouring countries are the Democratic Republic of the Congo to the north, Tanzania to the north-east, Malawi to the east, Mozambique, Zimbabwe, Botswana, and Namibia to the south, and Angola to the west. The capital city is Lusaka. Zambia is divided into nine provinces. Each province is subdivided into several districts with a total of 73 districts.				1.0.0	1.0.0	1.0.0
geo loc name (country)	Zimbabwe	GAZ:00001106	A landlocked country in the southern part of the continent of Africa, between the Zambezi and Limpopo rivers. It is bordered by South Africa to the south, Botswana to the southwest, Zambia to the northwest, and Mozambique to the east. Zimbabwe is divided into eight provinces and two cities with provincial status. The provinces are subdivided into 59 districts and 1,200 municipalities.				1.0.0	1.0.0	1.0.0
watershed shapefile availability									
watershed shapefile availability	Available	GENEPIO:0100993	A datum status in which the required datum is able to be used, obtained or selected.				1.0.0	1.0.0	1.0.0
watershed shapefile availability	Unknown	GENEPIO:0100995	A datum status in which the availability or presence of the required datum is not known.				1.0.0	1.0.0	1.0.0
purpose of sampling									
purpose of sampling	Wastewater treatment efficiency assessment	GENEPIO:0100869	An environmental sampling strategy in which wastewater effluent is collected to assess the efficiency of wastewater treatment.				1.0.0	1.0.0	1.0.0
purpose of sampling	Wastewater chemical surveillance	GENEPIO:0100870	An environmental sampling strategy in which wastewater samples are collected to monitor for chemical contamination.				1.0.0	1.0.0	1.0.0
purpose of sampling	Wastewater drug surveillance	GENEPIO:0100871	An environmental sampling strategy in which wastewater samples are collected to monitor for community drug use.				1.0.0	1.0.0	1.0.0
purpose of sampling	Wastewater pathogen surveillance	GENEPIO:0100872	An environmental sampling strategy in which samples are collected to identify and/or monitor the presence of pathogens.				1.0.0	1.0.0	1.0.0
purpose of sampling	Research	GENEPIO:0100003	A sampling strategy in which samples are collected in order to perform research.				1.0.0	1.0.0	1.0.0
purpose of sampling	Environmental survey (profiling)	GENEPIO:0100873	A research sampling strategy in which samples are collected in order to survey/profile entities in, or characteristics of, an environment.				1.0.0	1.0.0	1.0.0
purpose of sampling	Protocol testing	GENEPIO:0100024	A research sampling strategy in which samples are collected in order to test a method or protocol.				1.0.0	1.0.0	1.0.0
scale of sampling									
scale of sampling	Community-level surveillance	GENEPIO:0100874	A surveillance strategy in which sites are sampled at the community level.				1.0.0	1.0.0	1.0.0
scale of sampling	Institution-level surveillance	GENEPIO:0100875	A surveillance strategy in which sites are sampled at the institution level.				1.0.0	1.0.0	1.0.0
scale of sampling	Building-level surveillance	GENEPIO:0100876	A surveillance strategy in which sites are sampled at the building level.				1.0.0	1.0.0	1.0.0
sample collection time of day									
sample collection time of day	Morning	NCIT:C64934	The time period between dawn and noon.				1.0.0	1.0.0	1.0.0
sample collection time of day	Afternoon	NCIT:C64935	The time period between noon and sunset.				1.0.0	1.0.0	1.0.0
sample collection time of day	Evening	NCIT:C64936	The time period between late afternoon and bedtime.				1.0.0	1.0.0	1.0.0
sample collection time of day	Night	NCIT:C65001	The time in every 24 hour period when it is dark.				1.0.0	1.0.0	1.0.0
sample collection time duration un									
sample collection duration unit	Second	UO:0000010	A time unit which is equal to the duration of 9 192 631 770 periods of the radiation corresponding to the transition between the two hyperfine levels of the ground state of the caesium 133 atom.				1.0.0	1.0.0	1.0.0
sample collection duration unit	Minute	UO:0000031	A time unit which is equal to 60 seconds.				1.0.0	1.0.0	1.0.0
sample collection duration unit	Hour	UO:0000032	A time unit which is equal to 60 minutes.				1.0.0	1.0.0	1.0.0
sample collection duration unit	Day	UO:0000033	A time unit which is equal to 24 hours.				1.0.0	1.0.0	1.0.0
sample collection duration unit	Week	UO:0000034	A time unit which is equal to 7 days.				1.0.0	1.0.0	1.0.0
sample collection duration unit	Month	UO:0000035	A time unit which is equal to approximately 4-4.5 weeks or 28-31 days.				1.0.0	1.0.0	1.0.0

sample collection duration unit	Year	UO:000036	A time unit which is equal to 365 days, or 366 days during a leap year.				1.0.0	1.0.0	1.0.0
presampling activity									
presampling activity	Agricultural activity	ENVO:01001442	A land use process during which terrestrial environments are modified such that they can grow crop plants or allow the rearing of animals to provide food, fiber, medicines, or other products used by humans.				1.0.0	1.0.0	1.0.0
presampling activity	Animal husbandry	ENVO:01001248	An agricultural process during which humans rear animals on land for harvest and consumption.				1.0.0	1.0.0	1.0.0
presampling activity	Usage of an environment for industry	ENVO:01001450	A process that leads to the production of goods.				1.0.0	1.0.0	1.0.0
presampling activity	Healthcare activity	NCIT:C16205	A process that includes the prevention, treatment, and management of physical and mental illness.				1.0.0	1.0.0	1.0.0
presampling activity	Wastewater treatment	ENVO:06105300	A recycling process during which wastewater is treated.				1.0.0	1.0.0	1.0.0
presampling activity	Wastewater filtration	GENEPIO:0100881	A wastewater treatment process which removes solid particles from wastewater by means of filtration.				1.0.0	1.0.0	1.0.0
presampling activity	Wastewater grit removal	GENEPIO:0100882	A wastewater treatment process which removes sand, silt, and grit from wastewater.				1.0.0	1.0.0	1.0.0
presampling activity	Wastewater microbial treatment	GENEPIO:0100883	A wastewater treatment process in which microbes are used to degrade the biological material in wastewater.				1.0.0	1.0.0	1.0.0
presampling activity	Wastewater primary sedimentation	GENEPIO:0100884	A wastewater treatment process which removes solids and large particles from influent through gravitational force.				1.0.0	1.0.0	1.0.0
presampling activity	Wastewater secondary sedimentation	GENEPIO:0100885	A wastewater treatment process which removes biomass produced in aeration from influent through gravitational force.				1.0.0	1.0.0	1.0.0
sample volume measurement unit									
sample volume measurement unit	microliter (uL)	UO:0000101	A metric unit of volume equivalent to one thousandth of a cubic centimeter or one millionth of a liter.				1.0.0	1.0.0	1.0.0
sample volume measurement unit	milliliter (mL)	UO:0000098	A metric unit of volume equivalent to one cubic centimeter or one thousandth of a liter.				1.0.0	1.0.0	1.0.0
sample volume measurement unit	liter (L)	UO:0000099	A metric unit of volume equivalent to 1000 cubic centimeters				1.0.0	1.0.0	1.0.0
sample storage duration unit									
sample storage duration unit	Second	UO:0000010	A time unit which is equal to the duration of 9 192 631 770 periods of the radiation corresponding to the transition between the two hyperfine levels of the ground state of the caesium 133 atom.				1.0.0	1.0.0	1.0.0
sample storage duration unit	Minute	UO:0000031	A time unit which is equal to 60 seconds.				1.0.0	1.0.0	1.0.0
sample storage duration unit	Hour	UO:0000032	A time unit which is equal to 60 minutes.				1.0.0	1.0.0	1.0.0
sample storage duration unit	Day	UO:0000033	A time unit which is equal to 24 hours.				1.0.0	1.0.0	1.0.0
sample storage duration unit	Week	UO:0000034	A time unit which is equal to 7 days.				1.0.0	1.0.0	1.0.0
sample storage duration unit	Month	UO:0000035	A time unit which is equal to approximately 4-4.5 weeks or 28-31 days.				1.0.0	1.0.0	1.0.0
sample storage duration unit	Year	UO:0000036	A time unit which is equal to 365 days, or 366 days during a leap year.				1.0.0	1.0.0	1.0.0
specimen processing									
specimen processing	Concentrate	OBi:0600041	A process used to increase the density of a material of interest by removing other materials in the entity containing the material of interest.				1.0.0	1.0.0	1.0.0
specimen processing	Centrifugation	OBi:0302886	A process separating molecules by size or density using centrifugal forces generated by a spinning rotor.				1.0.0	1.0.0	1.0.0
specimen processing	Filtration	OBi:0302885	A process which separates components suspended in a fluid based on granularity properties relying on a filter device.				1.0.0	1.0.0	1.0.0
specimen processing	Flocculation	NCIT:C154798	A process in which microscopic particles in suspension aggregate to form loosely clumped masses that are often macroscopically observable.				1.0.0	1.0.0	1.0.0
specimen processing	Magnetic nanobead binding	GENEPIO:0100886	A process that uses nanobeads to bind to particles or microbes of interest.				1.0.0	1.0.0	1.0.0
specimen processing	Precipitation	OBi:0600034	A protocol application to cause a material to precipitate (becoming a solid) out of solution.				1.0.0	1.0.0	1.0.0
specimen processing	Gravity separation	GENEPIO:0101011	A process through which solids are separated from a liquid by allowing the solids to settle by gravity.				1.0.0	1.0.0	1.0.0
specimen processing	Pasteurization	IDO:0100170	A planned process of heating a liquid entity, to a specific temperature of a defined length of time span, and then cooling it immediately. It has an objective of prevent the microbial's growth in the liquid entity, which is a specific input of this planned process.				1.0.0	1.0.0	1.0.0
specimen processing	Growth in enrichment broth	GENEPIO:0101012	A process in which microorganisms, present in a collected sample, undergo cultivation within a nutrient-rich liquid medium, that facilitates growth.				1.0.0	1.0.0	1.0.0
specimen processing	Pooling specimens	OBi:0600016	Physical combination of several instances of like material.				1.0.0	1.0.0	1.0.0
specimen processing	Technical replicate process	GENEPIO:0101021	A specimen collection process in which a replicate(s) is collected to assess technical variation within an experiment. For technical replicates the same BioSample is used e.g. the same pool of RNA is used to assess technical (as opposed to biological) variation.				1.0.0	1.0.0	1.0.0
specimen processing	Biological replicate process	GENEPIO:0101022	A specimen collection process in which a replicate(s) is collected in parallel to assess for biological variation within an experiment. Biological replicates would have distinct BioSamples records.				1.0.0	1.0.0	1.0.0
environmental site									
environmental site	Correctional facility	ENVO:01001481	A prison facility which is owned and operated by a state.				1.0.0	1.0.0	1.0.0
environmental site	Healthcare facility	ENVO:03501134	A human construction in which healthcare is provided.				1.0.0	1.0.0	1.0.0

environmental site	Hospital	ENVO:00002173	A building in which health care services are provided by specialized staff and equipment.				1.0.0	1.0.0	1.0.0
environmental site	Clinic	ENVO:03501182	A facility which is used to provide treatment, remedial work, and/or instruction.				1.0.0	1.0.0	1.0.0
environmental site	Educational facility	ENVO:03501129	A human construction in which people are educated.				1.0.0	1.0.0	1.0.0
environmental site	Daycare facility	ENVO:03501335	A child care facility in which day care services are provided, by specialized staff and equipment, to a human child during the working day.				1.0.0	1.0.0	1.0.0
environmental site	School	ENVO:03501130	An institutional building in which students are educated.				1.0.0	1.0.0	1.0.0
environmental site	College or university	ENVO:03501131	An institutional building in which university services are performed.				1.0.0	1.0.0	1.0.0
environmental site	Residential building	ENVO:01000933	A human house which serves as a long-term shelter for its inhabitants and within which they store personal property.				1.0.0	1.0.0	1.0.0
environmental site	Homeless shelter	ENVO:03501133	An institutional building which temporarily houses homeless people.				1.0.0	1.0.0	1.0.0
environmental site	Long-term care facility	ENVO:01000932	A building in which nursing aides and skilled nurses provide care and treatment to residents who have significant difficulty coping with the required activities of daily living.				1.0.0	1.0.0	1.0.0
environmental site	Transport hub	ENVO:03501117	A place where passengers and cargo are exchanged between vehicles or/and between transport modes.				1.0.0	1.0.0	1.0.0
environmental site	Airport	ENVO:03501122	A human construction with extended facilities from which aircraft flight operations take place.				1.0.0	1.0.0	1.0.0
environmental site	Farm	ENVO:00000078	An area of land which is used for the cultivation of crops or grazing of livestock, including any agricultural constructions therein.				1.0.0	1.0.0	1.0.0
environmental site	Refugee camp	ENVO:03501455	A temporary, often makeshift shelter for persons displaced by war, political oppression, or for religious beliefs.				1.0.0	1.0.0	1.0.0
environmental site	Industrial plant	ENVO:00003861	A building within which goods are produced and, optionally, stored or within which services are rendered.				1.0.0	1.0.0	1.0.0
environmental site	Meat processing plant	ENVO:03501297	A processing plant for slaughtering, processing, packaging, labelling, handling, and storing of food animal carcasses, parts of carcasses, and meat products.				1.0.0	1.0.0	1.0.0
environmental site	Pharmaceutical manufacturing plant	ENVO:03501450	An industrial building in which pharmaceutical drugs are synthesised and processed on an industrial scale.				1.0.0	1.0.0	1.0.0
environmental site	Body of water	ENVO:00000063	An accumulation of water of varying size.				1.0.0	1.0.0	1.0.0
environmental site	Surface water	ENVO:00002042	Water that is found on the surface of an astronomical object.				1.0.0	1.0.0	1.0.0
environmental site	Lake	ENVO:00000020	A body of water or other liquid of considerable size contained in a depression on a landmass.				1.0.0	1.0.0	1.0.0
environmental site	Stream	ENVO:00000023	A watercourse which is linear and flows across the solid portion of a planetary surface.				1.0.0	1.0.0	1.0.0
environmental site	River	ENVO:00000022	A stream which, through permanent or seasonal flow processes, moves from elevated land towards lower elevations through a definite channel and empties either into a sea, lake, or another river or ends on land as bed seepage and evapotranspiration exceed water supply.				1.0.0	1.0.0	1.0.0
environmental site	Ocean	ENVO:00000015	A marine water body which is constitutes the majority of an astronomical body's hydrosphere.				1.0.0	1.0.0	1.0.0
environmental site	Sea	ENVO:00000016	A large expanse of saline water usually connected with an ocean.				1.0.0	1.0.0	1.0.0
environmental site	Canal	ENVO:00000014	Artificial watercourse with no flow or a controlled flow used for navigation, drainage or irrigation.				1.0.0	1.0.0	1.0.0
environmental site	Reservoir	ENVO:00000025	An artificial body of water, often contained by a dam, constructed for the purpose of water storage.				1.0.0	1.0.0	1.0.0
environmental site	Ground water	ENVO:01001004	Underground water which is located in pore spaces found in rock or unconsolidated deposits such as soil, clay, or gravel.				1.0.0	1.0.0	1.0.0
environmental site	Well	ENVO:00000026	A cylindrical hole, pit, or tunnel drilled or dug down to a depth from which water, oil, or gas can be pumped or brought to the surface.				1.0.0	1.0.0	1.0.0
environmental site	Spring	ENVO:00000027	A surface landform which provides an egress for groundwater or steam to flow out of the ground.				1.0.0	1.0.0	1.0.0
environmental site	Waste stabilization pond	ENVO:03600076	A human construction which confines wastewater in a depression enclosed by earthen structures.				1.0.0	1.0.0	1.0.0
environmental site	Plumbing drain	ENVO:01000924	An artificial channel which transports unwanted water or waste liquids away from their source, either to a more useful area, a receptacle, or into sewers or stormwater mains as waste discharge to be released or processed.				1.0.0	1.0.0	1.0.0
environmental site	Wastewater treatment plant	ENVO:00002272	A plant in which wastewater is treated.				1.0.0	1.0.0	1.0.0
environmental site	Transportation vehicle	ENVO:01000604	A vehicle is a mobile machine which transports people or cargo.				1.0.0	1.0.0	1.0.0
environmental site	Boat	ENVO:01000608	A boat is a watercraft of any size which is able to float or plane on water.				1.0.0	1.0.0	1.0.0
environmental site	Airplane	ENVO:03501349	An aircraft which 1) has fixed wings and 2) is propelled by a thrust from a jet engine, propeller, or rocket engine.				1.0.0	1.0.0	1.0.0
environmental material									
environmental material	Surface water	ENVO:00002042	Water that is found on the surface of an astronomical object				1.0.0	1.0.0	1.0.0
environmental material	Wastewater	ENVO:00002001	Water that has been adversely affected in quality by anthropogenic influence				1.0.0	1.0.0	1.0.0
environmental material	Wastewater sediment	ENVO:03501456	A sediment which is removed from waste water during a waste water treatment process.				1.0.0	1.0.0	1.0.0
environmental material	Sludge	ENVO:00002044	The residual semi-solid material left from domestic or industrial processes, or wastewater treatment processes.				1.0.0	1.0.0	1.0.0
environmental material	Primary sludge	ENVO:00002057	Sludge generated from the initial processes (i.e., precipitation, sedimentation) of wastewater treatment.				1.0.0	1.0.0	1.0.0
environmental material	Secondary sludge	ENVO:00002058	Activated waste biomass generated during wastewater treatment.				1.0.0	1.0.0	1.0.0

environmental material	Wastewater effluent	ENVO:03501457	A wastewater which has been discharged from any item of equipment at a stage of a wastewater treatment process.				1.0.0	1.0.0	1.0.0
environmental material	Primary wastewater effluent	GENEPIO:0100892	A wastewater effluent which has been discharged from a primary clarifier after the first stage of sedimentation.				1.0.0	1.0.0	1.0.0
environmental material	Secondary wastewater effluent	GENEPIO:0100893	A wastewater effluent which has been discharged from a secondary clarifier after the second stage of sedimentation.				1.0.0	1.0.0	1.0.0
environmental material properties									
environmental material properties	Stagnant	GENEPIO:0101004	A quality of a body of water wherein it has no current or flow.				1.0.0	1.0.0	1.0.0
environmental material properties	Slow flow	GENEPIO:0101005	A quality of a body of water wherein there is a slow flow.				1.0.0	1.0.0	1.0.0
environmental material properties	Fast flow	GENEPIO:0101006	A quality of a body of water wherein there is a fast flow.				1.0.0	1.0.0	1.0.0
environmental material properties	Contamination	PATO:0015031	The presence of a constituent, impurity, or some other undesirable element that spoils, corrupts, infects, makes unfit, or makes inferior a material, physical body, natural environment, place of human occupancy, or other material entity.				1.0.0	1.0.0	1.0.0
environmental material properties	Fecal-contamination	GENEPIO:0101010	A contamination quality in which fecal matter is a key component of the contamination.				1.0.0	1.0.0	1.0.0
environmental material properties	Liquid	PATO:0001735	A physical quality inhering in a bearer by virtue of the bearer's parts having the arrangement which exhibits characteristics of liquids.				1.0.0	1.0.0	1.0.0
environmental material properties	Slurry-like	GENEPIO:0101007	An quality in which the fluid like material is more viscous due to the suspension of insoluble solid particles.				1.0.0	1.0.0	1.0.0
environmental material properties	Semi-solid	NCIT:C149895	A state of matter consisting of molecules in a non-rigid structure that can retain its shape and volume but that is not resistant to such change.				1.0.0	1.0.0	1.0.0
environmental material properties	Solid	NCIT:C45300	The state in which a substance has no tendency to flow under moderate stress; resists forces (such as compression) that tend to deform it; and retains a definite size and shape.				1.0.0	1.0.0	1.0.0
environmental material properties	Treated	GENEPIO:0101008	A quality which denotes an altered state of an item resulting from purposeful interventions or processes.				1.0.0	1.0.0	1.0.0
environmental material properties	Untreated	GENEPIO:0101009	A quality which denotes an absence of purposeful intervention or processes on an item.				1.0.0	1.0.0	1.0.0
wastewater system type									
wastewater system type	Combined sewer system	ENVO:03501453	A sewerage sanitation system that collects rainwater runoff, domestic sewage, and industrial wastewater.				1.0.0	1.0.0	1.0.0
wastewater system type	Sanitary sewer system	ENVO:03501454	A sewerage sanitation system that collects only domestic sewage.				1.0.0	1.0.0	1.0.0
wastewater system type	Waste stabilization pond	ENVO:03600076	A pond designed for wastewater containment and treatment; also known as waste stabilization ponds.				1.0.0	1.0.0	1.0.0
wastewater system type	Latrine	ENVO:01000519	A latrine is a toilet which is of simple construction (relative to a flush or chemical toilet) and typically intended for communal use.				1.0.0	1.0.0	1.0.0
wastewater system type	Septic tank	ENVO:03501451	An underground holding and treatment site for domestic wastewater.				1.0.0	1.0.0	1.0.0
wastewater system type	Cesspit	ENVO:03501452	A pit for the disposal and storage of sewage.				1.0.0	1.0.0	1.0.0
wastewater system type	Composting toilet	ENVO:01000550	A composting toilet fixture is a dry toilet fixture in which managed, aerobic decomposition converts human excreta into organic matter suitable for the fertilisation or amendment of soils.				1.0.0	1.0.0	1.0.0
wastewater system type	Sewer (drain)	ENVO:01000924	An artificial channel which transports unwanted water or waste liquids away from their source, either to a more useful area, a receptacle, or into sewers or stormwater mains as waste discharge to be released or processed.				1.0.0	1.0.0	1.0.0
experimental specimen role type									
experimental specimen role type	Positive experimental control	GENEPIO:0101018	A control specimen that is expected to yield a positive result, to establish a reference baseline for an experiment.				1.0.0	1.0.0	1.0.0
experimental specimen role type	Negative experimental control	GENEPIO:0101019	A control specimen that is expected to yield a negative result, to establish a reference baseline for an experiment				1.0.0	1.0.0	1.0.0
experimental specimen role type	Technical replicate	EFO:0002090	A technical replicate is a replicate role where the same BioSample is use e.g. the same pool of RNA used to assess technical (as opposed to biological) variation within an experiment.				1.0.0	1.0.0	1.0.0
experimental specimen role type	Biological replicate	EFO:0002091	A biological replicate is a replicate role that consists of independent biological replicates made from different individual biosamples.				1.0.0	1.0.0	1.0.0
collection device									
collection device	Grab sampler	GENEPIO:0100941	A specimen collection device which is used to collect discrete, instantaneous samples of water, soil, or other substances from a specific point in a body of water or at a specific location.				1.0.0	1.0.0	1.0.0
collection device	Core sampling device	GENEPIO:0100943	A grab sampler that captures a vertical section of the substrate matrix of fecal sludge.				1.0.0	1.0.0	1.0.0
collection device	Vacuum sludge sampling device	GENEPIO:0100944	A grab sampler that takes a sample at a designated depth with minimal disturbance to surrounding layers.				1.0.0	1.0.0	1.0.0
collection device	Cone-shaped sampling device	GENEPIO:0100945	A grab sample that has a controlled valve that opens to take a sample from a specific depth, then closes to bring the sample out.				1.0.0	1.0.0	1.0.0
collection device	Horizontal grab sampling device	GENEPIO:0100946	A grab sampler in which the container for the sample is mounted on the end of a rod, which is suitable for collecting discharge from a pipe or truck.				1.0.0	1.0.0	1.0.0
collection device	Vertical grab sampling device	GENEPIO:0100947	A grab sampler in which the container for the sample is mounted on the end of a rod, which is suitable for collecting waste from a tank.				1.0.0	1.0.0	1.0.0

collection device	Composite sampler	GENEPIO:0100942	A specimen collection device that collects material over different times or locations.				1.0.0	1.0.0	1.0.0
collection device	Passive (trap) sampler	GENEPIO:0100948	A composite sampler that passively collects a sample without use of electricity or a battery.				1.0.0	1.0.0	1.0.0
collection device	Moore swab	GENEPIO:0100949	A composite sampler which consists of gauze pad tied with string, suspended in flowing water or wastewater, in order to collect a wastewater sample.				1.0.0	1.0.0	1.0.0
collection device	Automatic composite sampler	GENEPIO:0100950	A composite sampler which is automated to collect and store multiple wastewater samples across multiple time points.				1.0.0	1.0.0	1.0.0
collection device	Automatic flow-proportional sampler	GENEPIO:0100951	A composite sampler which is automated to collect and store multiple wastewater samples in a manner proportional to flow.				1.0.0	1.0.0	1.0.0
collection device	Automatic sequential (time-proportional) sampler	GENEPIO:0100952	A composite sampler which is automated to collect and combine multiple samples of equal volume taken at a set time interval.				1.0.0	1.0.0	1.0.0
collection method									
collection method	Grab sampling	GENEPIO:0100953	An environmental material collection process in which a water or soil sample is taken at a single point of time using a container type known as a grab sampler.				1.0.0	1.0.0	1.0.0
collection method	Composite sampling	GENEPIO:0100954	An environmental material collection process in which multiple water or soil samples are taken at different time points and combined to produce a composite. Samples can be collected continuously or at discrete time points.				1.0.0	1.0.0	1.0.0
collection method	Passive composite sampling	GENEPIO:0100955	A method of composite sampling in which a continuous sample is collected passively without electrical input minimizing cost.				1.0.0	1.0.0	1.0.0
collection method	Automatic composite sampling	GENEPIO:0100956	A method of composite sampling which utilizes an automated system to collect multiple samples, continuously or at discrete timepoints.				1.0.0	1.0.0	1.0.0
collection method	Manual composite sampling	GENEPIO:0100957	A method of composite sampling in which multiple grab samples from discrete time points are taken and then combined to produce a single composite sample.				1.0.0	1.0.0	1.0.0
water catchment area human populat									
water catchment area human populat	<10 people	Not applicable	An estimation of population size for a group smaller than 10 people.	This term is not ontologically supported			1.0.0	1.0.0	1.0.0
water catchment area human populat	10 - 100 people	Not applicable	An estimation of population size for a group smaller than 100 people and larger than 10 people.	This term is not ontologically supported			1.0.0	1.0.0	1.0.0
water catchment area human populat	100 - 1,000 people	Not applicable	An estimation of population size for a group smaller than 1,000 people and larger than 100 people.	This term is not ontologically supported			1.0.0	1.0.0	1.0.0
water catchment area human populat	1,000 - 10,000 people	Not applicable	An estimation of population size for a group smaller than 10,000 people and larger than 1,000 people.	This term is not ontologically supported			1.0.0	1.0.0	1.0.0
water catchment area human populat	10,000 - 100,000 people	Not applicable	An estimation of population size for a group smaller than 100,000 people and larger than 10,000 people.	This term is not ontologically supported			1.0.0	1.0.0	1.0.0
water catchment area human populat	100,000 - 1,000,000 people	Not applicable	An estimation of population size for a group smaller than 1,000,000 people and larger than 100,000 people.	This term is not ontologically supported			1.0.0	1.0.0	1.0.0
water catchment area human populat	1,000,000+ people	Not applicable	An estimation of population size for a group larger than 1,000,000 people.	This term is not ontologically supported			1.0.0	1.0.0	1.0.0
water catchment area human populat									
water catchment area human populat	persons per square mile	GENEPIO:0100989	A unit of population density that describes the average number of people in a square mile of a given area.				1.0.0	1.0.0	1.0.0
water catchment area human populat	persons per square kilometer	GENEPIO:0100990	A unit of population density that describes the average number of people in a square kilometer of a given area.				1.0.0	1.0.0	1.0.0
water catchment area human populat	residents per square mile	GENEPIO:0100991	A unit of population density that describes the average number of registered residents in a square mile of a given area.				1.0.0	1.0.0	1.0.0
water catchment area human populat	residents per square kilometer	GENEPIO:0100992	A unit of population density that describes the average number of registered residents in a square kilometer of a given area.				1.0.0	1.0.0	1.0.0
populated area type									
populated area type	Suburban	GSSO:011077	A mixed-use or residential area, existing either as part of a city/urban area, or as a separate residential community within commuting distance of one. Suburbs might have their own political or legal jurisdiction, especially in the United States, but this is not always the case, especially in the United Kingdom where most suburbs are located within the administrative boundaries of cities.				1.0.0	1.0.0	1.0.0
populated area type	Rural	GSSO:011078	A geographic area that is located outside towns and cities. Rural areas are primarily used for agriculture or pastoralism and may contain rural settlements.				1.0.0	1.0.0	1.0.0
populated area type	Urban	GSSO:011080	A human settlement with a high population density and infrastructure of built environment. Urban areas are created through urbanization and are categorized by urban morphology as cities, towns, conurbations or suburbs. In urbanism, the term contrasts to rural areas such as villages and hamlets; in urban sociology or urban anthropology it contrasts with natural environment.				1.0.0	1.0.0	1.0.0
sampling weather conditions									
sampling weather conditions	Cloudy/Overcast	ENVO:03501418	Atmospheric weather in which the sky is mostly or completely obscured by clouds.				1.0.0	1.0.0	1.0.0
sampling weather conditions	Partially cloudy	ENVO:03501419	Atmospheric weather in which the sky is partially obscured by clouds.				1.0.0	1.0.0	1.0.0
sampling weather conditions	Drizzle	ENVO:03501420	An aggregate of water drops smaller than those of rain which falls on a planetary surface during a precipitation process.				1.0.0	1.0.0	1.0.0
sampling weather conditions	Fog	ENVO:01000844	A visible mass of cloud water droplets or ice crystals suspended in the air at or near the surface of an astronomical body.				1.0.0	1.0.0	1.0.0
sampling weather conditions	Rain	ENVO:01001564	An aggregate of raindrops falling to a planetary surface during a precipitation process.				1.0.0	1.0.0	1.0.0
sampling weather conditions	Snow	ENVO:01000406	Snow is an environmental material which is primarily composed of flakes of crystalline water ice.				1.0.0	1.0.0	1.0.0

sampling weather conditions	Storm	ENVO:01000876	A storm is an environmental process in which an environmental system and the processes it participates in are strongly perturbed by external forcings. These forcings typically increase the rates of processes unfolding in the system, relative to their normal rates.				1.0.0	1.0.0	1.0.0
sampling weather conditions	Sunny/Clear	ENVO:03501421	Atmospheric weather in which the sun can be seen to shine brightly.				1.0.0	1.0.0	1.0.0
presampling weather conditions									
presampling weather conditions	Cloudy/Overcast	ENVO:03501418	Atmospheric weather in which the sky is mostly or completely obscured by clouds.				1.0.0	1.0.0	1.0.0
presampling weather conditions	Partially cloudy	ENVO:03501419	Atmospheric weather in which the sky is partially obscured by clouds.				1.0.0	1.0.0	1.0.0
presampling weather conditions	Drizzle	ENVO:03501420	An aggregate of water drops smaller than those of rain which falls on a planetary surface during a precipitation process.				1.0.0	1.0.0	1.0.0
presampling weather conditions	Fog	ENVO:01000844	A visible mass of cloud water droplets or ice crystals suspended in the air at or near the surface of an astronomical body.				1.0.0	1.0.0	1.0.0
presampling weather conditions	Rain	ENVO:01001564	An aggregate of raindrops falling to a planetary surface during a precipitation process.				1.0.0	1.0.0	1.0.0
presampling weather conditions	Snow	ENVO:01000406	Snow is an environmental material which is primarily composed of flakes of crystalline water ice.				1.0.0	1.0.0	1.0.0
presampling weather conditions	Storm	ENVO:01000876	A storm is an environmental process in which an environmental system and the processes it participates in are strongly perturbed by external forcings. These forcings typically increase the rates of processes unfolding in the system, relative to their normal rates.				1.0.0	1.0.0	1.0.0
presampling weather conditions	Sunny/Clear	ENVO:03501421	Atmospheric weather in which the sun can be seen to shine brightly.				1.0.0	1.0.0	1.0.0
precipitation measurement unit									
precipitation measurement unit	millimeter (mm)	UO:0000016	A length unit which is defined as one thousandth of a meter.				1.0.0	1.0.0	1.0.0
precipitation measurement unit	centimeter (cm)	UO:0000015	A length unit which is equal to one hundredth of a meter or 10 ⁻² m				1.0.0	1.0.0	1.0.0
precipitation measurement unit	meter (m)	UO:0000008	An SI unit of length defined as the length of the path travelled by light in a vacuum in 1/299792458th of a second.				1.0.0	1.0.0	1.0.0
precipitation measurement unit	inch (in)	UO:0010011	A non-SI unit of length defined as one twelfth of a foot.				1.0.0	1.0.0	1.0.0
precipitation measurement unit	foot (ft)	UO:0010013	A non-SI unit of length which is approximately 0.3048 meters.				1.0.0	1.0.0	1.0.0
air pressure measurement unit									
air pressure measurement unit	atmosphere (atm)	EFO:0005212	A non-SI unit of pressure defined as 101,325 pascals (Pa).				1.0.0	1.0.0	1.0.0
air pressure measurement unit	bar	requested in UO	A non-SI unit of pressure defined as 100 kilopascals (kPa).				1.0.0	1.0.0	1.0.0
air pressure measurement unit	pascal	UO:0000110	An SI unit of pressure defined as one newton per square meter (N/m ²).				1.0.0	1.0.0	1.0.0
ambient temperature measurement									
ambient temperature measurement u	degree Fahrenheit (F)	UO:0000195	A unit of temperature on a scale where water freezes at 32 degrees and boils at 212 degrees under standard conditions.				1.0.0	1.0.0	1.0.0
ambient temperature measurement u	degree Celsius (C)	UO:0000027	A unit of temperature on a scale where water freezes at 0 degrees and boils at 100 degrees under standard conditions.				1.0.0	1.0.0	1.0.0
total daily flow rate measurement u									
total daily flow rate measurement unit	cubic meter per second (m ³ /s)	requested in UO	A volumetric flow rate unit which is the measure of the volume of one cubic meter of matter crosses a given surface during the period of time equal to one second.				1.0.0	1.0.0	1.0.0
total daily flow rate measurement unit	cubic meter per minute (m ³ /min)	requested in UO	A volumetric flow rate unit which is the measure of the volume of one cubic meter of matter crosses a given surface during the period of time equal to one minute.				1.0.0	1.0.0	1.0.0
total daily flow rate measurement unit	cubic meter per hour (m ³ /h)	requested in UO	A volumetric flow rate unit which is the measure of the volume of one cubic meter of matter crosses a given surface during the period of time equal to one hour.				1.0.0	1.0.0	1.0.0
total daily flow rate measurement unit	liter per second (L/s)	requested in UO	A volumetric flow rate unit which is the measure of the volume of one liter of matter crosses a given surface during the period of time equal to one second.				1.0.0	1.0.0	1.0.0
total daily flow rate measurement unit	liter per minute (L/min)	requested in UO	A volumetric flow rate unit which is the measure of the volume of one liter of matter crosses a given surface during the period of time equal to one minute.				1.0.0	1.0.0	1.0.0
total daily flow rate measurement unit	liter per hour (L/h)	requested in UO	A volumetric flow rate unit which is the measure of the volume of one liter of matter crosses a given surface during the period of time equal to one hour.				1.0.0	1.0.0	1.0.0
total daily flow rate measurement unit	liter per day (L/day)	requested in UO	A volumetric flow rate unit which is the measure of the volume of one liter of matter crosses a given surface during the period of time equal to one day.				1.0.0	1.0.0	1.0.0
total daily flow rate measurement unit	million gallons per day (MGD)	requested in UO	A volumetric flow rate unit which is the measure of the volume of one million gallons of matter crosses a given surface during the period of time equal to one day.				1.0.0	1.0.0	1.0.0
instantaneous flow rate measurem									
instantaneous flow rate measurement	cubic meter per second (m ³ /s)	requested in UO	A volumetric flow rate unit which is the measure of the volume of one cubic meter of matter crosses a given surface during the period of time equal to one second.				1.0.0	1.0.0	1.0.0
instantaneous flow rate measurement	cubic meter per minute (m ³ /min)	requested in UO	A volumetric flow rate unit which is the measure of the volume of one cubic meter of matter crosses a given surface during the period of time equal to one minute.				1.0.0	1.0.0	1.0.0
instantaneous flow rate measurement	cubic meter per hour (m ³ /h)	requested in UO	A volumetric flow rate unit which is the measure of the volume of one cubic meter of matter crosses a given surface during the period of time equal to one hour.				1.0.0	1.0.0	1.0.0
instantaneous flow rate measurement	liter per second (L/s)	requested in UO	A volumetric flow rate unit which is the measure of the volume of one liter of matter crosses a given surface during the period of time equal to one second.				1.0.0	1.0.0	1.0.0
instantaneous flow rate measurement	liter per minute (L/min)	requested in UO	A volumetric flow rate unit which is the measure of the volume of one liter of matter crosses a given surface during the period of time equal to one minute.				1.0.0	1.0.0	1.0.0

instantaneous flow rate measurement	liter per hour (L/h)	requested in UO	A volumetric flow rate unit which is the measure of the volume of one liter of matter crosses a given surface during the period of time equal to one hour.				1.0.0	1.0.0	1.0.0
instantaneous flow rate measurement	liter per day (L/day)	requested in UO	A volumetric flow rate unit which is the measure of the volume of one liter of matter crosses a given surface during the period of time equal to one day.				1.0.0	1.0.0	1.0.0
instantaneous flow rate measurement	million gallons per day (MGD)	requested in UO	A volumetric flow rate unit which is the measure of the volume of one million gallons of matter crosses a given surface during the period of time equal to one day.				1.0.0	1.0.0	1.0.0
turbidity measurement unit									
turbidity measurement unit	nephelometric turbidity unit (NTU)	requested in UO	A measure of turbidity calculated by using a nephelometer to compare how white light is scattered in a water sample.				1.0.0	1.0.0	1.0.0
turbidity measurement unit	formazin nephelometric unit (FNU)	UO:0000318	A measure of turbidity calculated by comparing how infrared light is scattered in a water sample against the amount of infrared light scattered in a reference solution containing formazin.				1.0.0	1.0.0	1.0.0
dissolved oxygen measurement unit									
dissolved oxygen measurement unit	milligram per liter (mg/L)	UO:0000273	A non-SI unit of density that is equivalent to the SI metric kilogram per cubic meter.				1.0.0	1.0.0	1.0.0
dissolved oxygen measurement unit	kilogram per cubic meter (kg/m ³)	UO:0000083	An SI unit of density that is one thousandth of the density of water.				1.0.0	1.0.0	1.0.0
dissolved oxygen measurement unit	part per million (ppm)	UO:0000169	A unitless measure of density that represents one item out of a million.				1.0.0	1.0.0	1.0.0
oxygen reduction potential (ORP) m									
oxygen reduction potential (ORP) mea	milliVolt (mV)	UO:0000247	A non-SI unit of electromotive force that is one thousandth of a volt.				1.0.0	1.0.0	1.0.0
chemical oxygen demand (COD) m									
chemical oxygen demand (COD) mea	milligram per liter (mg/L)	UO:0000273	A non-SI unit of density that is equivalent to the SI metric kilogram per cubic meter.				1.0.0	1.0.0	1.0.0
carbonaceous biochemical oxygen									
carbonaceous biochemical oxygen de	milligram per liter (mg/L)	UO:0000273	A non-SI unit of density that is equivalent to the SI metric kilogram per cubic meter.				1.0.0	1.0.0	1.0.0
total suspended solids (TSS) meas									
total suspended solids (TSS) measur	percent (%)	UO:0000187	A unitless measure that represents one in a hundred.				1.0.0	1.0.0	1.0.0
total suspended solids (TSS) measur	gram per liter (g/L)	UO:0000175	A non-SI unit of density that is a thousand kilograms per cubic meter.				1.0.0	1.0.0	1.0.0
total dissolved solids (TDS) measu									
total dissolved solids (TDS) measur	percent (%)	UO:0000187	A unitless measure that represents one in a hundred.				1.0.0	1.0.0	1.0.0
total dissolved solids (TDS) measur	gram per liter (g/L)	UO:0000175	A non-SI unit of density that is a thousand kilograms per cubic meter.				1.0.0	1.0.0	1.0.0
total solids (TS) measurement unit									
total solids (TS) measurement unit	percent (%)	UO:0000187	A unitless measure that represents one in a hundred.				1.0.0	1.0.0	1.0.0
total solids (TS) measurement unit	gram per liter (g/L)	UO:0000175	A non-SI unit of density that is a thousand kilograms per cubic meter.				1.0.0	1.0.0	1.0.0
alkalinity measurement unit									
alkalinity measurement unit	milliequivalent per liter (meq/L)	requested in UO	A unit of ion concentration that represents chemical activity per volume.				1.0.0	1.0.0	1.0.0
alkalinity measurement unit	milligram per liter (mg/L)	UO:0000273	A mass unit density which is equal to mass of an object in milligrams divided by the volume in liters.				1.0.0	1.0.0	1.0.0
alkalinity measurement unit	parts per million	UO:0000169	A dimensionless concentration notation which denotes the amount of a given substance in a total amount of 1,000,000 regardless of the units of measure used as long as they are the same or 1 part in 10 ⁶ [6]				1.0.0	1.0.0	1.0.0
conductivity measurement unit									
conductivity measurement unit	milliSiemen per centimeter (mS/cm)	requested in UO	A non-SI unit of electrical conductivity that is equivalent to one tenth of a Siemen per meter (S/m).				1.0.0	1.0.0	1.0.0
conductivity measurement unit	microSiemen per centimeter (µS/cm)	requested in UO	A non-SI unit of electrical conductivity that is equivalent to one ten thousandth of a Siemen per meter (S/m).				1.0.0	1.0.0	1.0.0
conductivity measurement unit	Siemen per meter (S/m)	requested in UO	An SI unit of electrical conductivity that is equivalent to an ampere per volt per meter (A/v/m).				1.0.0	1.0.0	1.0.0
salinity measurement unit									
salinity measurement unit	practical salinity unit (PSU)	requested in UO	A unitless measure of salinity that is equivalent to per thousand.				1.0.0	1.0.0	1.0.0
salinity measurement unit	weight for weight (% w/w)	requested in UO	A unitless comparison based on weight rather than volume, which is equivalent to per hundred.				1.0.0	1.0.0	1.0.0
salinity measurement unit	parts per thousand	UO:0000168	A dimensionless concentration notation which denotes the amount of a given substance in a total amount of 1000 regardless of the units of measure as long as they are the same.				1.0.0	1.0.0	1.0.0
salinity measurement unit	gram per liter (g/L)	UO:0000175	A non-SI unit of density that is a thousand kilograms per cubic meter.				1.0.0	1.0.0	1.0.0
total nitrogen (TN) measurement ur									
total nitrogen (TN) measurement unit	milligram per liter (mg/L)	UO:0000273	A non-SI unit of density that is equivalent to the SI metric kilogram per cubic meter.				1.0.0	1.0.0	1.0.0
total nitrogen (TN) measurement unit	gram per liter (g/L)	UO:0000175	A non-SI unit of density that is a thousand kilograms per cubic meter.				1.0.0	1.0.0	1.0.0
total nitrogen (TN) measurement unit	gram per total solids (g/gTS)	requested in UO	A unitless comparison of the weight of a substance as a proportion to the weight of total solids.				1.0.0	1.0.0	1.0.0

total phosphorus (TP) measuremer									
total phosphorus (TP) measurement	gram per total solids (g/gTS)	requested in UO	A unitless comparison of the weight of phosphorus (P) within waste material to the weight of total solids.				1.0.0	1.0.0	1.0.0
total phosphorus (TP) measurement	orthophosphate as phosphorus per total solids (gPO4-P/gTS)	GENEPIO:0100998	A substance unit which describes the weight of orthophosphate as phosphorus (gPO4-P) within a sample to the weight of total solids.				1.0.0	1.0.0	1.0.0
total phosphorus (TP) measurement	milligrams per liter (mg/L)	UO:0000273	A non-SI unit of density that is equivalent to the SI metric kilogram per cubic meter.				1.0.0	1.0.0	1.0.0
total phosphorus (TP) measurement	milligrams orthophosphate as phosphorus per liter (mg PO4-P/L)	GENEPIO:0100999	A density unit comparing the weight of orthophosphate as phosphorus (PO4-P) in milligrams within a standard liter volume.				1.0.0	1.0.0	1.0.0
fecal contamination indicator									
fecal contamination indicator	crAssphage	NCBITaxon:1211417	CrAss-like phage, a bacteriophage discovered in 2014 in the human fecal metagenome.				1.0.0	1.0.0	1.0.0
fecal contamination indicator	PMMoV / pepper mild mottle virus	NCBITaxon:12239	A plant RNA virus that is abundant in human feces.				1.0.0	1.0.0	1.0.0
fecal contamination indicator	Bacteroides HF183	GENEPIO:0101000	A fecal indicator which is the most commonly used sewage-associated marker gene, belonging to the Bacteroides genus.				1.0.0	1.0.0	1.0.0
fecal contamination indicator	Lachnospiraceae Lachno3	GENEPIO:0101001	A fecal indicator which is a human-associated genetic marker in the Lachnospiraceae family of bacteria.				1.0.0	1.0.0	1.0.0
fecal contamination indicator	F+ (male specific) coliphages	GENEPIO:0101002	A fecal indicator which is a bacteriophage that infects coliform bacteria and is used in water assessment.				1.0.0	1.0.0	1.0.0
fecal contamination indicator	Stercobilin	CHEBI:26756	Bile pigment found in fecal material.				1.0.0	1.0.0	1.0.0
fecal contamination unit									
fecal contamination unit	log10 gene copies per 100 milliliter (log10 GC/100 mL)	requested in UO	A unit that expresses on a logarithmic scale the number of copies of a given gene within one hundred milliliters of a biological material.				1.0.0	1.0.0	1.0.0
fecal contamination unit	gene copies per liter (GC/L)	requested in UO	A unit that measures the number of copies of a given gene within a liter of a biological material.				1.0.0	1.0.0	1.0.0
fecal contamination unit	PCR quantification cycle	UO:0010077	A count unit of how many Polymerase Chain Reaction (PCR) cycles it took to detect a real signal from a sample. Equivalent to the PCR cycle number at which a sample's reaction curve intersects the threshold line.				1.0.0	1.0.0	1.0.0
fecal contamination unit	log10 gene copies per nanogram total DNA	requested in UO	A unit that expresses on a logarithmic scale the number of copies within a nanogram of deoxyribonucleic acid genetic material.				1.0.0	1.0.0	1.0.0
urinary contamination indicator									
urinary contamination indicator	Urobilin	CHEBI:36378	A tetrapyrroledicarboxylic acid that causes the yellow color in urine. Also known as uochrome.				1.0.0	1.0.0	1.0.0
urinary contamination unit									
urinary contamination unit	nanograms per liter (ng/L)	requested in UO	A mass unit density which is equal to mass of an object in nanograms divided by the volume in liters.				1.0.0	1.0.0	1.0.0
fecal coliform count unit									
fecal coliform count unit	colony forming units per milliliter (CFU/mL)	UO:0000213	A unit of microbial density that describes the number of colony forming units within a milliliter of material.				1.0.0	1.0.0	1.0.0
fecal coliform count unit	colony forming units per 100 milliliter (CFU/100 mL)	requested in UO	A unit of microbial density that describes the number of colony forming units within 100 milliliters of material.				1.0.0	1.0.0	1.0.0
fecal coliform count unit	colony forming units per grams total solids (CFU/gTS)	requested in UO	A unit of microbial density that describes the number of colony forming units within a gram of total solids in waste material.				1.0.0	1.0.0	1.0.0
fecal coliform count unit	most probable number per milliliter (MPN/mL)	requested in UO	A unit of microbial density that describes the most probable number of microbes within one milliliter of material.				1.0.0	1.0.0	1.0.0
fecal coliform count unit	most probable number per 100 milliliter (MPN/100 mL)	requested in UO	A unit of microbial density that describes the most probable number of microbes within 100 milliliters of material.				1.0.0	1.0.0	1.0.0
sample temperature unit (at collect									
sample temperature unit (at collection	degree Fahrenheit (F)	UO:0000195	A unit of temperature on a scale where water freezes at 32 degrees and boils at 212 degrees under standard conditions.				1.0.0	1.0.0	1.0.0
sample temperature unit (at collection	degree Celsius (C)	UO:0000027	A unit of temperature on a scale where water freezes at 0 degrees and boils at 100 degrees under standard conditions.				1.0.0	1.0.0	1.0.0
sample temperature unit (when rec									
sample temperature unit (when receiv	degree Fahrenheit (F)	UO:0000195	A unit of temperature on a scale where water freezes at 32 degrees and boils at 212 degrees under standard conditions.				1.0.0	1.0.0	1.0.0
sample temperature unit (when receiv	degree Celsius (C)	UO:0000027	A unit of temperature on a scale where water freezes at 0 degrees and boils at 100 degrees under standard conditions.				1.0.0	1.0.0	1.0.0
purpose of sequencing									
purpose of sequencing	Baseline surveillance (random sampling)	GENEPIO:0100005	A surveillance sampling strategy in which baseline is established at the beginning of a study or project by the selection of sample units via random sampling.				1.0.0	1.0.0	1.0.0
purpose of sequencing	Targeted surveillance (non-random sampling)	GENEPIO:0100006	A surveillance sampling strategy in which an aspired outcome is explicitly stated.				1.0.0	1.0.0	1.0.0
purpose of sequencing	Priority surveillance project	GENEPIO:0100007	A targeted surveillance strategy which is considered important and/or urgent.				1.0.0	1.0.0	1.0.0
purpose of sequencing	Longitudinal surveillance (repeat sampling)	GENEPIO:0100009	A surveillance strategy in which an individual or site is selected to undergo repeat sampling over a defined period of time.				1.0.0	1.0.0	1.0.0

purpose of sequencing	Travel-associated surveillance	GENEPIO:0100012	A surveillance strategy in which wastewater produced within travel hubs or travel vehicles are monitored.				1.0.0	1.0.0	1.0.0
purpose of sequencing	Domestic travel surveillance	GENEPIO:0100013	A surveillance strategy in which wastewater produced within travel hubs or travel vehicles are monitored, related to domestic travel.				1.0.0	1.0.0	1.0.0
purpose of sequencing	International travel surveillance	GENEPIO:0100014	A surveillance strategy in which wastewater produced within travel hubs or travel vehicles are monitored, related to international travel.				1.0.0	1.0.0	1.0.0
purpose of sequencing	Research	GENEPIO:0100022	A sampling strategy in which sites are sampled in order to perform research.				1.0.0	1.0.0	1.0.0
purpose of sequencing	Viral passage experiment	GENEPIO:0100023	A research sampling strategy in which samples are selected in order to perform a viral passage experiment.				1.0.0	1.0.0	1.0.0
purpose of sequencing	Protocol testing experiment	GENEPIO:0100024	A research sampling strategy in which samples are selected in order to perform a protocol testing experiment.				1.0.0	1.0.0	1.0.0
sequencing platform									
sequencing platform	Illumina	GENEPIO:0001923	A sequencing platform provided by the Illumina company.				1.0.0	1.0.0	1.0.0
sequencing platform	Pacific Biosciences	GENEPIO:0001927	A sequencing platform provided by the Pacific Biosciences company.				1.0.0	1.0.0	1.0.0
sequencing platform	Ion Torrent	GENEPIO:0002683	A sequencing platform provided by the Ion Torrent company.				1.0.0	1.0.0	1.0.0
sequencing platform	Oxford Nanopore Technologies	GENEPIO:0100986	An sequencing platform that is developing and selling nanopore sequencing products and is based in the UK.				1.0.0	1.0.0	1.0.0
sequencing platform	BGI Genomics	GENEPIO:0004324	A sequencing platform provided by the BGI Genomics company.				1.0.0	1.0.0	1.0.0
sequencing platform	MGI	GENEPIO:0004325	A sequencing platform provided by the MGI company.				1.0.0	1.0.0	1.0.0
sequencing platform	Roche LS454	GENEPIO:0001926	A sequencing platform provided by the 454 Life Sciences company.				1.0.0	1.0.0	1.0.0
sequencing platform	SOLID sequencing	GENEPIO:0002684	A sequencing platform provided by Life Technologies Corporation.				1.0.0	1.0.0	1.0.0
sequencing platform	Complete Genomics	GENEPIO:0001924	An in-house sequencing platform provided by Complete Genomics.				1.0.0	1.0.0	1.0.0
sequencing platform	Helicos	GENEPIO:0002682	A sequencing platform brand provided by Helicos corporation (now defunct).				1.0.0	1.0.0	1.0.0
sequencing platform	Applied Biosystems	GENEPIO:0100985	A sequencing platform provided by ThermoFisher.				1.0.0	1.0.0	1.0.0
sequencing instrument									
sequencing instrument	Illumina	GENEPIO:0100105	A DNA sequencer manufactured by the Illumina corporation.				1.0.0	1.0.0	1.0.0
sequencing instrument	Illumina Genome Analyzer	GENEPIO:0100106	A DNA sequencer manufactured by Solexa as one of its first sequencer lines, launched in 2006, and capable of sequencing 1 gigabase (Gb) of data in a single run.				1.0.0	1.0.0	1.0.0
sequencing instrument	Illumina Genome Analyzer II	OBI:0000703	A DNA sequencer manufactured by the Illumina (Solexa) corporation, which supports sequencing of single or paired end clone libraries relying on sequencing by synthesis technology.				1.0.0	1.0.0	1.0.0
sequencing instrument	Illumina Genome Analyzer IIx	OBI:0002000	An Illumina Genome Analyzer II which is manufactured by the Illumina corporation. It supports sequencing of single, long or short insert paired end clone libraries relying on sequencing by synthesis technology. The Genome Analyzer IIx is the most widely adopted next-generation sequencing platform and proven and published across the broadest range of research applications.				1.0.0	1.0.0	1.0.0
sequencing instrument	Illumina HiScanSQ	GENEPIO:0100109	A DNA sequencer manufactured by the Illumina corporation using sequence-by-synthesis chemistry, and contains a HiScan Reader for sequencing and microarray-based analyses as well as an "SQ Module" to support microfluidics.				1.0.0	1.0.0	1.0.0
sequencing instrument	Illumina HiSeq	GENEPIO:0100110	A DNA sequencer manufactured by the Illumina corporation using sequence-by-synthesis chemistry, enabling deep sequencing and high yield.				1.0.0	1.0.0	1.0.0
sequencing instrument	Illumina HiSeq X	GENEPIO:0100111	A DNA sequencer manufactured by the Illumina corporation using sequence-by-synthesis chemistry that enables sufficient depth and coverage to produce the first 30x human genome for \$1000.				1.0.0	1.0.0	1.0.0
sequencing instrument	Illumina HiSeq X Five	GENEPIO:0100112	A DNA sequencer manufactured by the Illumina corporation using sequence-by-synthesis chemistry that consists of a set of 5 HiSeq X Sequencing Systems.				1.0.0	1.0.0	1.0.0
sequencing instrument	Illumina HiSeq X Ten	GENEPIO:0100113	A DNA sequencer that consists of a set of 10 HiSeq X Sequencing Systems.				1.0.0	1.0.0	1.0.0
sequencing instrument	Illumina HiSeq 1000	OBI:0002022	A DNA sequencer which is manufactured by the Illumina corporation, with a single flow cell and a throughput of up to 35 Gb per day. It supports sequencing of single, long or short insert paired end clone libraries relying on sequencing by synthesis technology.				1.0.0	1.0.0	1.0.0
sequencing instrument	Illumina HiSeq 1500	GENEPIO:0100115	A DNA sequencer which is manufactured by the Illumina corporation, with a single flow cell and a throughput of up to 35-50 Gb per day.				1.0.0	1.0.0	1.0.0
sequencing instrument	Illumina HiSeq 2000	OBI:0002001	A DNA sequencer which is manufactured by the Illumina corporation, with two flow cells and a throughput of up to 55 Gb per day. Built upon sequencing by synthesis technology, the machine is optimized for generation of data for multiple samples in a single run.				1.0.0	1.0.0	1.0.0
sequencing instrument	Illumina HiSeq 2500	OBI:0002002	A DNA sequencer which is manufactured by the Illumina corporation, with two flow cells and a throughput of up to 160 Gb per day. Built upon sequencing by synthesis technology, the machine is optimized for generation of data for batching multiple samples or rapid results on a few samples.				1.0.0	1.0.0	1.0.0
sequencing instrument	Illumina HiSeq 3000	OBI:0002048	A DNA sequencer manufactured by Illumina corporation, with a single flow cell and a throughput of more than 200 Gb per day.				1.0.0	1.0.0	1.0.0
sequencing instrument	Illumina HiSeq 4000	OBI:0002049	A DNA sequencer manufactured by Illumina corporation, with two flow cell and a throughput of more than 400 Gb per day.				1.0.0	1.0.0	1.0.0
sequencing instrument	Illumina iSeq	GENEPIO:0100120	A DNA sequencer manufactured by the Illumina corporation using sequence-by-synthesis chemistry that is lightweight.				1.0.0	1.0.0	1.0.0
sequencing instrument	Illumina iSeq 100	GENEPIO:0100121	A DNA sequencer manufactured by the Illumina corporation using sequence-by-synthesis chemistry that is lightweight and has an output capacity between 144MB-1.2GB.				1.0.0	1.0.0	1.0.0

sequencing instrument	Illumina NovaSeq	GENEPIO:0100122	A DNA sequencer manufactured by the Illumina corporation using sequence-by-synthesis chemistry that has an output capacity of 6 Tb and 20 billion reads in dual flow cell mode.				1.0.0	1.0.0	1.0.0
sequencing instrument	Illumina NovaSeq 6000	GENEPIO:0100123	A DNA sequencer which is manufactured by the Illumina corporation, with two flow cells and an output of up to 6000 Gb (32-40 B reads per run). The sequencer utilizes synthesis technology and patterned flow cells to optimize throughput and even spacing of sequencing clusters.				1.0.0	1.0.0	1.0.0
sequencing instrument	Illumina MiniSeq	GENEPIO:0100124	A DNA sequencer which is manufactured by the Illumina corporation using sequence-by-synthesis chemistry that fits on a benchtop and has an output capacity of 1.65-7.5 Gb.				1.0.0	1.0.0	1.0.0
sequencing instrument	Illumina MiSeq	OBI:0002003	A DNA sequencer which is manufactured by the Illumina corporation. Built upon sequencing by synthesis technology, the machine provides an end-to-end solution (cluster generation, amplification, sequencing, and data analysis) in a single machine.				1.0.0	1.0.0	1.0.0
sequencing instrument	Illumina NextSeq	GENEPIO:0100126	A DNA sequencer which is manufactured by the Illumina corporation using sequence-by-synthesis chemistry that fits on a benchtop and has an output capacity of 1.65-7.5 Gb.				1.0.0	1.0.0	1.0.0
sequencing instrument	Illumina NextSeq 500	OBI:0002021	A DNA sequencer which is a desktop sequencer ideal for smaller-scale studies manufactured by the Illumina corporation. It supports sequencing of single, long or short insert paired end clone libraries relying on sequencing by synthesis technology.				1.0.0	1.0.0	1.0.0
sequencing instrument	Illumina NextSeq 550	GENEPIO:0100128	A DNA sequencer which is a desktop sequencer ideal for smaller-scale studies manufactured by the Illumina corporation. It supports sequencing of single, long or short insert paired end clone libraries relying on sequencing by synthesis technology. The 550 is an upgrade on the 500 model.				1.0.0	1.0.0	1.0.0
sequencing instrument	Illumina NextSeq 1000	GENEPIO:0004432	A DNA sequencer which is manufactured by the Illumina corporation using sequence-by-synthesis chemistry that fits on a benchtop and uses P1 and P2 flow cells.				1.0.0	1.0.0	1.0.0
sequencing instrument	Illumina NextSeq 2000	GENEPIO:0100129	A DNA sequencer which is manufactured by the Illumina corporation using sequence-by-synthesis chemistry that fits on a benchtop and has an output capacity of 30-360 Gb.				1.0.0	1.0.0	1.0.0
sequencing instrument	PacBio	GENEPIO:0100130	A DNA sequencer manufactured by the Pacific Biosciences corporation.				1.0.0	1.0.0	1.0.0
sequencing instrument	PacBio RS	GENEPIO:0100131	A DNA sequencer manufactured by the Pacific Biosciences corporation which utilizes "SMRT Cells" for single-molecule real-time sequencing. The RS was the first model made by the company.				1.0.0	1.0.0	1.0.0
sequencing instrument	PacBio RS II	OBI:0002012	A DNA sequencer which is manufactured by the Pacific Biosciences corporation. Built upon single molecule real-time sequencing technology, the machine is optimized for generation with long reads and high consensus accuracy.				1.0.0	1.0.0	1.0.0
sequencing instrument	PacBio Sequel	GENEPIO:0100133	A DNA sequencer built upon single molecule real-time sequencing technology, optimized for generation with long reads and high consensus accuracy, and manufactured by the Pacific Biosciences corporation				1.0.0	1.0.0	1.0.0
sequencing instrument	PacBio Sequel II	GENEPIO:0100134	A DNA sequencer built upon single molecule real-time sequencing technology, optimized for generation of highly accurate ("HiFi") long reads, and which is manufactured by the Pacific Biosciences corporation.				1.0.0	1.0.0	1.0.0
sequencing instrument	Ion Torrent	GENEPIO:0100135	A DNA sequencer manufactured by the Ion Torrent corporation.				1.0.0	1.0.0	1.0.0
sequencing instrument	Ion Torrent PGM	GENEPIO:0100136	A DNA sequencer manufactured by the Ion Torrent corporation which utilizes ion semiconductor sequencing and has an output capacity of 300 MB - 1GB.				1.0.0	1.0.0	1.0.0
sequencing instrument	Ion Torrent Proton	GENEPIO:0100137	A DNA sequencer manufactured by the Ion Torrent corporation which utilizes ion semiconductor sequencing and has an output capacity of up to 15 Gb.				1.0.0	1.0.0	1.0.0
sequencing instrument	Ion Torrent S5 XL	GENEPIO:0100138	A DNA sequencer manufactured by the Ion Torrent corporation which utilizes ion semiconductor sequencing and requires only a small amount of input material while producing data faster than the S5 model.				1.0.0	1.0.0	1.0.0
sequencing instrument	Ion Torrent S5	GENEPIO:0100139	A DNA sequencer manufactured by the Ion Torrent corporation which utilizes ion semiconductor sequencing and requires only a small amount of input material.				1.0.0	1.0.0	1.0.0
sequencing instrument	Oxford Nanopore	GENEPIO:0100140	A DNA sequencer manufactured by the Oxford Nanopore corporation.				1.0.0	1.0.0	1.0.0
sequencing instrument	Oxford Nanopore Flongle	GENEPIO:0004433	An adapter for MinION or GridION DNA sequencers manufactured by the Oxford Nanopore corporation that enables sequencing on smaller, single-use flow cells.				1.0.0	1.0.0	1.0.0
sequencing instrument	Oxford Nanopore GridION	GENEPIO:0100141	A DNA sequencer that is manufactured by the Oxford Nanopore Technologies corporation, that can run and analyze up to five individual flow cells producing up to 150 Gb of data per run. The sequencer produces real-time results and utilizes nanopore technology with the option of running the flow cells concurrently or individual				1.0.0	1.0.0	1.0.0
sequencing instrument	Oxford Nanopore MiniON	GENEPIO:0100142	A portable DNA sequencer which is manufactured by the Oxford Nanopore Technologies corporation, that uses consumable flow cells producing up to 30 Gb of DNA sequence data per flow cell. The sequencer produces real-time results and utilizes nanopore technology with up to 512 nanopore channels in the sensor array.				1.0.0	1.0.0	1.0.0
sequencing instrument	Oxford Nanopore PromethION	GENEPIO:0100143	A DNA sequencer that is manufactured by the Oxford Nanopore Technologies corporation, capable of running up to 48 flow cells and producing up to 7.6 Tb of data per run. The sequencer produces real-time results and utilizes Nanopore technology, with each flow cell allowing up to 3,000 nanopores to be sequencing simultaneously.				1.0.0	1.0.0	1.0.0
sequencing instrument	BGI Genomics sequencing instrument	GENEPIO:0100144	A DNA sequencer manufactured by the BGI Genomics corporation.				1.0.0	1.0.0	1.0.0
sequencing instrument	BGISEQ-500	GENEPIO:0100145	A DNA sequencer manufactured by the BGI Genomics corporation that utilizes Probe-Anchor Synthesis (cPAS) chemistry and "DNA Nanoballs".				1.0.0	1.0.0	1.0.0
sequencing instrument	MGI sequencing instrument	GENEPIO:0100146	A DNA sequencer manufactured by the MGI corporation.				1.0.0	1.0.0	1.0.0
sequencing instrument	MGISEQ-2000RS	GENEPIO:0100971	An MGI sequencing instrument model that utilises DNA nanoball and (DNB) and				1.0.0	1.0.0	1.0.0

sequencing instrument			An MGI sequencing instrument model that utilises DNA nanoball and (DNB) and probe-anchor synthesis (cPAS) for next generation sequencing and which adopts triangular matrix signal spots on sequencing flow cell, for low throughput at highsPEEDS.				1.0.0	1.0.0	1.0.0
	MGI DNBSEQ-G99	GENEPIO:0100972							
sequencing instrument	MGI DNBSEQ-G400	GENEPIO:0100148	A DNA sequencer manufactured by the MGI corporation with an output capacity of 55GB; 1440GB per run.				1.0.0	1.0.0	1.0.0
sequencing instrument	MGI DNBSEQ-G400RS FAST	GENEPIO:0100149	A DNA sequencer manufactured by the MGI corporation with an output capacity of 55GB; 330GB per run, which enables faster sequencing than the DNBSEQ-G400.				1.0.0	1.0.0	1.0.0
sequencing instrument	MGI DNBSEQ-T7	GENEPIO:0100147	A high throughput DNA sequencer manufactured by the MGI corporation with an output capacity of 1; 6TB of data per day.				1.0.0	1.0.0	1.0.0
sequencing instrument	MGI DNBSEQ-E25	GENEPIO:0100973	An MGI sequencing instrument model that is a compact and lightweight standalone system which can be used inside or outside the lab.				1.0.0	1.0.0	1.0.0
sequencing instrument	MGI DNBSEQ-G50	GENEPIO:0100150	A DNA sequencer manufactured by the MGI corporation with an output capacity of 10 ~ 150 GB per run and enables different read lengths.				1.0.0	1.0.0	1.0.0
sequencing instrument	454 Genome Sequencer	GENEPIO:0001937	A DNA sequencer first manufactured by 454 Life Science Corporation that conducts pyrosequencing.				1.0.0	1.0.0	1.0.0
sequencing instrument	454 Genome Sequencer 20	OBI:0000689	A DNA sequencer first manufactured by 454 Life Science Corporation in 2005, and enables pyrosequencing to be performed. It comprises both optics and fluidics subsystems, which are controlled by a computer subsystem.				1.0.0	1.0.0	1.0.0
sequencing instrument	454 Genome Sequencer FLX	OBI:0000702	A DNA sequencer which was first manufactured by 454 Life Science Corporation in 2008 and enables pyrosequencing to be performed. It comprises both optics and fluidics subsystems, which are controlled by a computer subsystem. It has the ability to sequence 400-600 million base pairs per run with 400-500 base pair read lengths.				1.0.0	1.0.0	1.0.0
sequencing instrument	454 Genome Sequencer FLX+	GENEPIO:0100982	A 454 Genome Sequencer that performs pyrosequencing and comprises both optics and fluidics subsystems and can be used for longer reads when used with the long-read Sequencing Kit XL+.				1.0.0	1.0.0	1.0.0
sequencing instrument	454 Genome Sequencer FLX Titanium	GENEPIO:0001936	A 454 Genome Sequencer that performs pyrosequencing and has enhanced capacity and generates longer reads.				1.0.0	1.0.0	1.0.0
sequencing instrument	454 Genome Sequencer Junior	GENEPIO:0001938	A 454 Genome Sequencer that performs pyrosequencing and is more compact.				1.0.0	1.0.0	1.0.0
sequencing instrument	SOLID System	OBI:0000696	A DNA sequencer which is manufactured by Applied Biosystems and which enable DNA sequencing by ligation.				1.0.0	1.0.0	1.0.0
sequencing instrument	SOLID 5500	GENEPIO:0001929	A DNA sequencer which is manufactured by Applied Biosystems and utilizes sequencing by ligation technology and faster run times than the SOLID 4 series.				1.0.0	1.0.0	1.0.0
sequencing instrument	SOLID 5500xl Genetic Analyzer	GENEPIO:0001930	A DNA sequencer which is manufactured by Applied Biosystems and has two FlowChips for across 12 lanes and with a higher throughput than the 5500 model.				1.0.0	1.0.0	1.0.0
sequencing instrument	SOLID 5500xl-W Genetic Analyzer	GENEPIO:0100984	A DNA sequencer which is manufactured by the Applied Biosystems corporation. Built upon SOLID sequencing technology and with a higher throughput than SOLID 5500xl Genetic Analyzer.				1.0.0	1.0.0	1.0.0
sequencing instrument	SOLID 3 Plus System	OBI:0002007	A DNA sequencer which is manufactured by the Applied Biosystems corporation. Built upon SOLID sequencing technology, the machine generates greater than 1 billion mappable reads per run.				1.0.0	1.0.0	1.0.0
sequencing instrument	SOLID 4 System	OBI:0002024	A DNA sequencer which is manufactured by the Applied Biosystems corporation. Built upon SOLID sequencing technology with 100 Gb mappable throughput.				1.0.0	1.0.0	1.0.0
sequencing instrument	SOLID 4hq System	GENEPIO:0001928	A DNA sequencer which is manufactured by the Applied Biosystems corporation. Built upon SOLID sequencing technology with 300 Gb mappable throughput.				1.0.0	1.0.0	1.0.0
sequencing instrument	SOLID PI System	GENEPIO:0001931	A DNA sequencer which is manufactured by the Applied Biosystems corporation. Built upon SOLID sequencing technology, the machine offers 50Gb mappable throughput.				1.0.0	1.0.0	1.0.0
sequencing instrument	SOLID System 2.0	GENEPIO:0001932	A DNA sequencer which is manufactured by the Applied Biosystems corporation.				1.0.0	1.0.0	1.0.0
sequencing instrument	SOLID System 3.0	GENEPIO:0001933	A DNA sequencer which is manufactured by the Applied Biosystems corporation.				1.0.0	1.0.0	1.0.0
sequencing instrument	HelixScope Single Molecule Sequencer	OBI:0000717	A DNA sequencer manufacturer by Helicos Corporation to carry out Single Molecule sequencing using reversible termination chemistry.				1.0.0	1.0.0	1.0.0
sequencing instrument	Applied Biosystems sequencing instrument model	GENEPIO:0100974	A sequencing instrument model that is manufactured by Applied Biosystems and which performs Sanger sequencing and fragment analysis by capillary electrophoresis.				1.0.0	1.0.0	1.0.0
sequencing instrument	ABI PRISM 310 Genetic Analyzer	GENEPIO:0100975	An Applied Biosystems sequencing instrument model which utilises a single capillary electrophoresis system to perform Sanger sequencing and fragment analysis that is automated.				1.0.0	1.0.0	1.0.0
sequencing instrument	AB 3130 Genetic Analyzer	GENEPIO:0100976	An Applied Biosystems sequencing instrument model which performs capillary electrophoresis to sequence DNA and has 4 capillaries.				1.0.0	1.0.0	1.0.0
sequencing instrument	AB 3130xL Genetic Analyzer	GENEPIO:0100977	An Applied Biosystems sequencing instrument model which performs capillary electrophoresis to sequence DNA and has 16 capillaries.				1.0.0	1.0.0	1.0.0
sequencing instrument	AB 3500 Genetic Analyzer	GENEPIO:0100978	An Applied Biosystems sequencing instrument model which performs capillary electrophoresis to sequence DNA and has 8 capillaries, which can run 96 well plates.				1.0.0	1.0.0	1.0.0
sequencing instrument	AB 3500xL Genetic Analyzer	GENEPIO:0100979	An Applied Biosystems sequencing instrument model which performs capillary electrophoresis to sequence DNA and has 24 capillaries, which can run 384 well plates.				1.0.0	1.0.0	1.0.0
sequencing instrument	AB 3730 Genetic Analyzer	GENEPIO:0100980	An Applied Biosystems sequencing instrument model which utilises an 48 capillary array electrophoresis system for sequencing.				1.0.0	1.0.0	1.0.0
sequencing instrument	AB 3730xL Genetic Analyzer	GENEPIO:0100981	An Applied Biosystems sequencing instrument model which utilises an 96 capillary array electrophoresis system for sequencing.				1.0.0	1.0.0	1.0.0
sequencing assay type									
sequencing assay type	amplicon sequencing assay	OBI:0002767	A sequencing assay in which a DNA or RNA input molecule is amplified by PCR and the product sequenced.				1.0.0	1.0.0	1.0.0

sequencing assay type	16S ribosomal gene sequencing assay	OBI:0002763	An amplicon sequencing assay in which the amplicon is derived from universal primers used to amplify the 16S ribosomal RNA gene from isolate bacterial genomic DNA or metagenomic DNA from a microbial community. Resulting sequences are compared to reference 16S sequence databases to identify or classify bacteria						
sequencing assay type	whole genome sequencing assay	OBI:0002117	A DNA sequencing assay that intends to provide information about the sequence of an entire genome of an organism.				1.0.0	1.0.0	1.0.0
sequencing assay type	whole metagenome sequencing assay	OBI:0002623	A DNA sequencing assay that intends to provide information on the DNA sequences of multiple genomes (a metagenome) from different organisms present in the same input sample.				1.0.0	1.0.0	1.0.0
sequencing assay type	whole virome sequencing assay	OBI:0002768	A whole metagenome sequencing assay that intends to provide information on multiple genome sequences from different viruses present in the same input sample.				1.0.0	1.0.0	1.0.0
amplicon pcr primer scheme									
amplicon pcr primer scheme	artic-v1	GENEPIO:0100847	An amplicon strategy which was developed by the ARTIC consortium for SARS-CoV-2 with the attributes of version 1.0.0.	If your primer scheme is not on this list,			1.0.0	1.0.0	1.0.0
amplicon pcr primer scheme	artic-v2	GENEPIO:0100848	An amplicon strategy which was developed by the ARTIC consortium for SARS-CoV-2 with the attributes of version 2.0.0.	If your primer scheme is not on this list,			1.0.0	1.0.0	1.0.0
amplicon pcr primer scheme	artic-v3	GENEPIO:0100849	An amplicon strategy which was developed by the ARTIC consortium for SARS-CoV-2 with the attributes of version 3.0.0.	If your primer scheme is not on this list,			1.0.0	1.0.0	1.0.0
amplicon pcr primer scheme	artic-v4	GENEPIO:0100850	An amplicon strategy which was developed by the ARTIC consortium for SARS-CoV-2 with the attributes of version 4.0.0.	If your primer scheme is not on this list,			1.0.0	1.0.0	1.0.0
amplicon pcr primer scheme	artic-v4.1	GENEPIO:0100851	An amplicon strategy which was developed by the ARTIC consortium for SARS-CoV-2 with the attributes of version 4.1.0.	If your primer scheme is not on this list,			1.0.0	1.0.0	1.0.0
amplicon pcr primer scheme	artic-v5.0.0_400	GENEPIO:0100852	An amplicon strategy which was developed by the ARTIC consortium for SARS-CoV-2 with the attributes of version 5.0.0 which produces amplicons approximately 400bp in length.	If your primer scheme is not on this list,			1.0.0	1.0.0	1.0.0
amplicon pcr primer scheme	artic-v5.1.0_400	GENEPIO:0100853	An amplicon strategy which was developed by the ARTIC consortium for SARS-CoV-2 with the attributes of version 5.1.0 which produces amplicons approximately 400bp in length.	If your primer scheme is not on this list,			1.0.0	1.0.0	1.0.0
amplicon pcr primer scheme	artic-v5.2.0_1200	GENEPIO:0100854	An amplicon strategy which was developed by the ARTIC consortium for SARS-CoV-2 with the attributes of version 5.2.0 which produces amplicons approximately 1200bp in length.	If your primer scheme is not on this list,			1.0.0	1.0.0	1.0.0
amplicon pcr primer scheme	artic-v5.2.0_400	GENEPIO:0100855	An amplicon strategy which was developed by the ARTIC consortium for SARS-CoV-2 with the attributes of version 5.2.0 which produces amplicons approximately 400bp in length.	If your primer scheme is not on this list,			1.0.0	1.0.0	1.0.0
amplicon pcr primer scheme	artic-v5.3.2_400	GENEPIO:0100856	An amplicon strategy which was developed by the ARTIC consortium for SARS-CoV-2 with the attributes of version 5.3.2 which produces amplicons approximately 400bp in length.	If your primer scheme is not on this list,			1.0.0	1.0.0	1.0.0
amplicon pcr primer scheme	eden-v1	GENEPIO:0100857	An amplicon strategy which was developed by John-Sebastian Eden with primers for SARS-CoV-2 and attributes of version 1.0.0 which produces amplicons approximately 2500bp in length.	If your primer scheme is not on this list,			1.0.0	1.0.0	1.0.0
amplicon pcr primer scheme	midnight-bccdc-v1	GENEPIO:0100858	An amplicon strategy which is for SARS-CoV-2 and based on the original Midnight scheme developed by Oxford Nanopore Technologies, and adapted by the BCCDC Public Health Lab with the attributes of version 1.0.0 which produces amplicons approximately 1200bp in length.	If your primer scheme is not on this list,			1.0.0	1.0.0	1.0.0
amplicon pcr primer scheme	midnight-bccdc-v2	GENEPIO:0100859	An amplicon strategy which targets SARS-CoV-2 and is based on the original Midnight scheme developed by Oxford Nanopore Technologies, and adapted by the BCCDC Public Health Lab with the attributes of version 2.0.0 which produces amplicons approximately 1200bp in length.	If your primer scheme is not on this list,			1.0.0	1.0.0	1.0.0
amplicon pcr primer scheme	midnight-bccdc-v3	GENEPIO:0100860	An amplicon strategy which targets SARS-CoV-2 and is based on the original Midnight scheme developed by Oxford Nanopore Technologies, and adapted by the BCCDC Public Health Lab with the attributes of version 3.0.0 which produces amplicons approximately 1200bp in length.	If your primer scheme is not on this list,			1.0.0	1.0.0	1.0.0
amplicon pcr primer scheme	midnight-bccdc-v4	GENEPIO:0100861	An amplicon strategy which targets SARS-CoV-2 and is based on the original Midnight scheme developed by Oxford Nanopore Technologies, and adapted by the BCCDC Public Health Lab with the attributes of version 4.0.0 which produces amplicons approximately 1200bp in length.	If your primer scheme is not on this list,			1.0.0	1.0.0	1.0.0
amplicon pcr primer scheme	midnight-ont-v3	GENEPIO:0100862	An amplicon strategy which targets SARS-CoV-2 and was developed by Oxford Nanopore Technologies with the attributes of version 2.0.0 which produces amplicons approximately 1200bp in length.	If your primer scheme is not on this list,			1.0.0	1.0.0	1.0.0
amplicon pcr primer scheme	midnight-v1	GENEPIO:0100863	An amplicon strategy which targets SARS-CoV-2 and was developed by Oxford Nanopore Technologies with the attributes of version 1.0.0 which produces amplicons approximately 1200bp in length.	If your primer scheme is not on this list,			1.0.0	1.0.0	1.0.0
amplicon pcr primer scheme	midnight-v2	GENEPIO:0100864	An amplicon strategy which targets SARS-CoV-2 and was developed by Oxford Nanopore Technologies with the attributes of version 2.0.0 which produces amplicons approximately 1200bp in length.	If your primer scheme is not on this list,			1.0.0	1.0.0	1.0.0
amplicon pcr primer scheme	varskip-vsl1a	GENEPIO:0100865	An amplicon strategy which targets SARS-CoV-2 and was developed by New England BioLabs using PrimalSeq to reduce effects of variants with the attributes of version 1a long.	If your primer scheme is not on this list,			1.0.0	1.0.0	1.0.0
amplicon pcr primer scheme	varskip-vss1a	GENEPIO:0100866	An amplicon strategy which targets SARS-CoV-2 and was developed by New England BioLabs using PrimalSeq to reduce effects of variants with the attributes of version 1a short.	If your primer scheme is not on this list,			1.0.0	1.0.0	1.0.0
amplicon pcr primer scheme	varskip-vss2a	GENEPIO:0100867	An amplicon strategy which targets SARS-CoV-2 and was developed by New England BioLabs using PrimalSeq to reduce effects of variants with the attributes of version 2a.	If your primer scheme is not on this list,			1.0.0	1.0.0	1.0.0

amplicon pcr primer scheme	varskip-vss2b	GENEPIO:0100868	An amplicon strategy which targets SARS-CoV-2 and was developed by New England BioLabs using PrimalSeq to reduce effects of variants with the attributes of version 2b.	If your primer scheme is not on this list,			1.0.0	1.0.0	1.0.0
genomic target enrichment method									
genomic target enrichment method	hybrid selection method	GENEPIO:0001950	Selection by hybridization in array or solution.				1.0.0	1.0.0	1.0.0
genomic target enrichment method	rRNA depletion method	GENEPIO:0101020	Removal of background RNA for the purposes of enriching the genomic target.				1.0.0	1.0.0	1.0.0
quality control determination									
quality control determination	no quality control issues identified	GENEPIO:0100562	A statement confirming that quality control processes were carried out and no quality issues were detected.	This statement may be used in conjunc			1.0.0	1.0.0	1.0.0
quality control determination	sequence passed quality control	GENEPIO:0100563	A statement confirming that quality control processes were carried out and that the sequence met the assessment criteria.	Use this statement to indicate that qual			1.0.0	1.0.0	1.0.0
quality control determination	sequence failed quality control	GENEPIO:0100564	A statement confirming that quality control processes were carried out and that the sequence did not meet the assessment criteria.	Use this statement to indicate that qual			1.0.0	1.0.0	1.0.0
quality control determination	minor quality control issues identified	GENEPIO:0100565	A statement confirming that quality control processes were carried out and that the sequence did not meet the assessment criteria, however the issues detected were minor.	This statement may be used in conjunc			1.0.0	1.0.0	1.0.0
quality control determination	sequence flagged for potential quality control issues	GENEPIO:0100566	A statement confirming that quality control processes were carried out however it is unclear whether the sequence meets the assessment criteria and the assessment requires review.	This statement may be used in conjunc			1.0.0	1.0.0	1.0.0
quality control determination	quality control not performed	GENEPIO:0100567	A statement confirming that quality control processes have not been carried out.	Use this statement to indicate that qual			1.0.0	1.0.0	1.0.0
quality control issues									
quality control issues	low quality sequence	GENEPIO:0100568	Sequence data that does not meet quality control thresholds.				1.0.0	1.0.0	1.0.0
quality control issues	sequence contaminated	GENEPIO:0100569	Sequence data that contains reads from unintended targets (e.g. other organisms, other samples) due to contamination so that it does not faithfully represent the genetic information from the biological source.				1.0.0	1.0.0	1.0.0
quality control issues	low average genome coverage	GENEPIO:0100570	Sequence data in which the entire length of the genome is not sufficiently sequenced (low breadth of coverage), or particular positions of the genome are not sequenced a prescribed number of times (low depth of coverage).				1.0.0	1.0.0	1.0.0
quality control issues	low percent genome captured	GENEPIO:0100571	Sequence data in which the entire length of the genome is not sufficiently sequenced (low breadth of coverage).				1.0.0	1.0.0	1.0.0
quality control issues	read lengths shorter than expected	GENEPIO:0100572	Average sequence read lengths that are below the expected size range given a particular sequencing instrument, reagents and conditions.				1.0.0	1.0.0	1.0.0
quality control issues	sequence amplification artifacts	GENEPIO:0100573	Sequence data containing errors generated during the PCR amplification process during library generation (e.g. mutations, altered read distribution, amplicon dropouts).				1.0.0	1.0.0	1.0.0
quality control issues	low signal to noise ratio	GENEPIO:0100574	Sequence data containing more errors or undetermined bases (noise) than sequence representing the biological source (signal).				1.0.0	1.0.0	1.0.0
quality control issues	low coverage of characteristic mutations	GENEPIO:0100575	Sequence data that contains a lower than expected number of mutations that are usually observed in the reference sequence.				1.0.0	1.0.0	1.0.0
diagnostic target presence									
diagnostic target presence	diagnostic target present	GENEPIO:0100987	A quality inhering in a bearer by virtue of the bearer's existence.	Use this to indicate when a diagnostic t			1.0.0	1.0.0	1.0.0
diagnostic target presence	diagnostic target absent	GENEPIO:0100988	Aquality denoting the lack of an entity.	Use this to indicate when there is no ev			1.0.0	1.0.0	1.0.0
diagnostic measurement unit									
diagnostic measurement unit	gene copies per liter (GC/L)	requested in UO	A unit that measures the number of copies of a given gene within a liter of a biological material.				1.0.0	1.0.0	1.0.0
diagnostic measurement unit	cycle threshold (Ct) / quantification cycle (Cq)	GENEPIO:0100657	A data field which describes the cycle threshold (Ct) value result from a diagnostic reverse transcription polymerase chain reaction (RT-PCR) test.				1.0.0	1.0.0	1.0.0
diagnostic measurement unit	colony forming units per milliliter (CFU/mL)	UO:0000213	A unit of microbial density that describes the number of colony forming units within a milliliter of material.				1.0.0	1.0.0	1.0.0
diagnostic measurement unit	colony forming units per 100 milliliter (CFU/100 mL)	requested in UO	A unit of microbial density that describes the number of colony forming units within 100 milliliters of material.				1.0.0	1.0.0	1.0.0
diagnostic measurement unit	colony forming units per grams total solids (CFU/gTS)	requested in UO	A unit of microbial density that describes the number of colony forming units within a gram of total solids in waste material.				1.0.0	1.0.0	1.0.0
diagnostic measurement unit	most probable number per milliliter (MPN/mL)	requested in UO	A unit of microbial density that describes the most probable number of microbes within one milliliter of material.				1.0.0	1.0.0	1.0.0
diagnostic measurement unit	most probable number per 100 milliliter (MPN/100 mL)	requested in UO	A unit of microbial density that describes the most probable number of microbes within 100 milliliters of material.				1.0.0	1.0.0	1.0.0
diagnostic measurement method									
diagnostic measurement method	quantitative real time polymerase chain reaction (qPCR)	OBI:0000893	An assay, based on the PCR, that amplifies and simultaneously quantifies a specific DNA molecule based on the use of complementary probes/primers. It enables both detection and quantification (as absolute number of copies or relative amount when normalized to DNA input or additional normalizing genes) of one or more specific sequences in a DNA sample.				1.0.0	1.0.0	1.0.0
diagnostic measurement method	digital real time polymerase chain reaction (dPCR)	to request in OBI	A type of polymerase chain reaction technique in which the sample is fractionated, within which individual PCR reactions occur in each fraction				1.0.0	1.0.0	1.0.0
diagnostic measurement method	bacteria culture test	to request in OBI	An assay to identify the presence of bacteria				1.0.0	1.0.0	1.0.0

