



## ***Introduction***

1. Volume A is as an element of the WWW Operational Information Service (OIS) database, which is an element of the overall WMO database. One basic feature of a relational database is that any data should be entered once and appropriate links should be created between the tables. Volume A database should have the adequate links with the OIS database and the overall WMO database. Another basic feature is that the format of presentation of the data should be selected to facilitate their processing using database applications.

2. The present layout of Volume A has deficiencies as regards its presentation and the relationship with the others components of the OIS database. The users of the OIS are experiencing difficulties in linking Volume A to other OIS Tables. The users have to process the information contained in Volume A with a view to creating the links. There is a requirement to adapt Volume A to the OIS users.

## ***Presentation of the information for its processing using database applications***

3. The structure of Volume A should be designed to satisfy the requirements of the users. The information should be entered into the appropriate columns. The symbols used to present the information in the columns should be standardised to make it possible for the users to process the information using database applications.

4. An example of requirement for a monitoring application is to calculate the number of observations expected during a monitoring period; this is not an easy task for all stations using the present layout since there are various types of strings of characters used in the column "Observations/Remarks" to describe the observing programmes (e.g. H14-15 SUMMER, Monday-Friday only, Not on 6,7 and public holidays). Another example of requirement is the conversion of latitude/longitude; in the present layout, the degrees of the longitude are represented with two or three figures and a letter; all the degrees should be represented with three characters and a letter.

## ***Key field unique for each station in the layout of Volume A***

5. A key field unique for each station is required to link Volume A to other OIS tables like Volume C1 or the monitoring results.

6. The five-digit WMO station index number is not a key field unique for each station in Volume A. There are 91 stations (see Appendix A) for which two entries (one for surface observation, one for upper-air observation) exist in Volume A. These two entries are associated to different locations or elevations of the surface and upper-air stations. A sub-index number is used to differentiate the entries. The surface station has a sub-index number "0" and the upper-air station "1". All the other stations, for which there is only one entry in Volume A for both surface and surface observations, has a sub-index number "0". The key field unique for each station in the layout of Volume A is the station index number completed by the sub-index number.

7. Different methods could be envisaged to allocate a unique key field to each station, for example:

- To review the list of station index numbers in order to allocate only one index station number to each entry of Volume A. In this respect, the stations with sub-index "0" would keep their index numbers and the 91 upper-air stations with sub-index "1" would receive a new station index number. This would have the disadvantage to allocate new index numbers to 91 existing upper-air stations.
- To show the locations and elevations for the surface and upper-air stations within different fields associated to the station index number in the layout of Volume A.
- To continue using the station index number completed by the sub-index number as the key field. The extended index number should then be used in other OIS tables (e.g. RBSNs, RBCNs, GSN, GUAN) in order to ensure direct links between all these tables.

### **Country/area name – WMO Member (State or Territory)**

8. The country/area names used in Volume A make it difficult to link the layout of Volume A with other Tables like WMO Publication No. 5. For example, there are several countries parted into areas such as Australia, India and Indonesia. Several names correspond to parts of countries such as the French Departments. The names are shown in English and French separated by “/” when the English and French names are different. Deficiencies are detailed in Appendix B.

9. Each station should be associated to a WMO Member (State or Territory) with a view to establishing links with the WMO overall database. The reference for the list of WMO Members (State or Territory) is Publication No. 5.

10. The method used to associate a station to a WMO Member (State or Territory) should be further considered. It appears that two methods are at present applied:

- The country or area in the column “Country Area” corresponds to the location of the station;
- The country in the column “Country Area” corresponds to the country responsible for the operation of the station. This method is in particular used for the stations located in the Antarctica.

One method should be used for the same column.

11. The stations, that are not operated by a WMO Member, should be grouped by areas (e.g. countries, Marsden squares). This should be further considered.

12. The Secretariat should post and update on the WMO server a table containing the ISO codes to be used to represent the WMO Members and, other countries and areas (see above paragraphs 8 and 9). Columns of this table should contain the full names in the WMO languages.

### ***Monitoring information***

13. Volume A should not contain the monitoring information, but should be linked to the OIS monitoring database. Any monitoring information should be obtained by linking Volume A to the tables including the monitoring results, either when preparing the layout of Volume A to be distributed to the users, or through an interactive access by the users to the OIS. Quantitative monitoring information is available in table forms on the WMO server. The question of the introduction of the qualitative monitoring information on table forms into the OIS should be further considered.

**APPENDIX A - Stations included in Volume A with the same station index number and sub-indexes "0" and "1"**

<i>RA Country/ Area</i>	<i>Index</i>	<i>Sub- Index</i>	<i>Station</i>	<i>Lat.</i>	<i>Long.</i>	<i>HP</i>	<i>HHA</i>	<i>Index</i>	<i>Sub- Index</i>	<i>Station</i>	<i>Lat.</i>	<i>Long.</i>	<i>HP</i>	<i>HHA</i>
1 CAMEROON /	64910	0	DOUALA OBS.	04 00N	09 44E	9	10	64910	1	DOUALA R.S.	04 01N	09 42E	15	10
2 CHINA / CHINE	51463	0	WU LU MU QI	43 48N	87 39E	947		51463	1	WU LU MU QI	43 47N	87 37E	919	
2 CHINA / CHINE	52866	0	XINING	36 37N	101 46E	2262		52866	1	XINING	36 43N	101 45E	2296	
2 CHINA / CHINE	54337	0	JINZHOU	41 08N	121 07E	70		54337	1	JIN ZHOU	41 07N	121 04E	30	
2 CHINA / CHINE	54497	0	DANDONG	40 03N	124 20E	14		54497	1	DAN DONG	40 05N	124 20E	13	
2 CHINA / CHINE	57816	0	GUIYANG	26 35N	106 43E	1074		57816	1	GUIYANG	26 29N	106 39E	1222	
2 CHINA / CHINE	57993	0	GANZHOU	25 52N	115 00E	138		57993	1	GANZHOU	25 52N	115 00E	134	
2 CHINA / CHINE	59316	0	SHANTOU	23 24N	116 41E	3		59316	1	SHANTOU	23 21N	116 40E		4
2 JAPAN / JAPON	47582	0	AKITA	39 43N	140 06E	21	6	47582	1	AKITA	39 43N	140 06E	7	6
2 JAPAN / JAPON	47678	0	HACHIJOJIMA	33 06N	139 47E	80	79	47678	1	HACHIJOJIMA/OMURE	33 07N	139 47E	153	152
2 JAPAN / JAPON	47909	0	NAZE	28 23N	129 30E	7	3	47909	1	NAZE/FUNCHATOGE	28 23N	129 33E	295	295
2 JAPAN / JAPON	47936	0	NAHA	26 12N	127 41E	53	28	47936	1	NAHA	26 12N	127 41E	27	28
2 RUSSIAN	20744	0	MALYE	72 22N	52 42E	15		20744	1	MALYE KARMAKULY	72 22N	52 42E	19	
2 RUSSIAN	23022	0	AMDERMA	69 45N	61 42E	49		23022	1	AMDERMA	69 45N	61 42E	55	
2 RUSSIAN	23418	0	PECHORA	65 07N	57 06E	59		23418	1	PECHORA	65 07N	57 06E	61	
2 RUSSIAN	23804	0	SYKTYVKAR	61 43N	50 50E	119		23804	1	SYKTYVKAR	61 40N	50 51E	116	
2 RUSSIAN	24266	0	VERHOJANSK	67 33N	133 23E	137		24266	1	VERHOJANSK	67 34N	133 24E	138	

<i>RA Country/ Area</i>	<i>Index</i>	<i>Sub- Index</i>	<i>Station</i>	<i>Lat.</i>	<i>Long.</i>	<i>HP</i>	<i>HHA</i>	<i>Index</i>	<i>Sub- Index</i>	<i>Station</i>	<i>Lat.</i>	<i>Long.</i>	<i>HP</i>	<i>HHA</i>
2 RUSSIAN	24944	0	OLEKMINSK	60 24N	120 25E	226		24944	1	OLEKMINSK	60 22N	120 25E	135	
2 RUSSIAN	25563	0	ANADYR'	64 47N	177 34E	61		25563	1	ANADYR'	64 44N	177 32E	6	
2 RUSSIAN	28225	0	PERM'	57 57N	56 12E	170		28225	1	PERM'	57 57N	56 12E	171	
2 RUSSIAN	28445	0	VERHNEE	56 44N	61 04E	288		28445	1	VERHNEE DUBROVO	56 44N	61 04E	290	
2 RUSSIAN	28698	0	OMSK	55 01N	73 23E	122		28698	1	OMSK	54 56N	73 24E	90	
2 RUSSIAN	29634	0	NOVOSIBIRSK	55 05N	82 54E	176		29634	1	NOVOSIBIRSK	54 58N	82 57E	143	
2 RUSSIAN	30554	0	BAGDARIN	54 28N	113 35E	903		30554	1	BAGDARIN	54 29N	113 35E	995	
2 RUSSIAN	31510	0	BLAGOVESENS	50 15N	127 34E	132		31510	1	BLAGOVESENSK	50 32N	127 30E	177	
2 TURKMENISTAN	38392	0	DASHKHOVUZ	41 45N	59 49E	82		38392	1	DASHKHOVUZ	41 50N	59 59E	87	
2 TURKMENISTAN	38507	0	TURKMENBASHI	40 03N	53 00E	-13		38507	1	TURKMENBASHI	40 02N	52 59E	90	
2 TURKMENISTAN	38880	0	ASHGABAT	37 58N	58 20E	208		38880	1	ASHGABAT	37 58N	58 23E	304	
4 CANADA	71043	0	NORMAN WELLS	65 17N	126 48W	74	67	71043	1	NORMAN WELLS UA,	65 17N	126 45W	95	95
4 CANADA	71072	0	MOULD BAY,	76 14N	119 20W	12	15	71072	1	MOULD BAY, UA, NWT	76 15N	119 21W		58
4 CANADA	71081	0	HALL BEACH A,	68 47N	81 15W	8	8	71081	1	HALL BEACH UA, NU.	68 46N	81 13W	6	
4 CANADA	71082	0	ALERT, NU	82 30N	62 20W	66	63	71082	1	ALERT UA, NU	82 30N	62 20W	65	64
4 CANADA	71109	0	PORT HARDY A,	50 41N	127 22W	22	22	71109	1	PORT HARDY UA, BC	50 41N	127 22W	17	16
4 CANADA	71203	0	KELOWNA A, BC	49 57N	119 22W	430	430	71203	1	KELOWNA UA, BC	49 53N	119 29W	456	456
4 CANADA	71603	0	YARMOUTH, NS	43 50N	66 05W	43	43	71603	1	YARMOUTH, NS	43 52N	66 06W	9	
4 CANADA	71801	0	ST.JOHN'S, NFLD	47 37N	52 44W	140	134	71801	1	ST.JOHN'S UA, NFLD	47 37N	52 45W	140	138

<b>RA Country/ Area</b>	<b>Index</b>	<b>Sub- Index</b>	<b>Station</b>	<b>Lat.</b>	<b>Long.</b>	<b>HP</b>	<b>HHA</b>	<b>Index</b>	<b>Sub- Index</b>	<b>Station</b>	<b>Lat.</b>	<b>Long.</b>	<b>HP</b>	<b>HHA</b>
4 CANADA	71811	0	SEPT-ILES, QUE	50 13N	66 16W	55	55	71811	1	SEPT-ILES UA, QUE	50 13N	66 15W	53	52
4 CANADA	71815	0	STEPHENVILLE,	48 32N	58 33W	26	8	71815	1	STEPHENVILLE UA, NFLD	48 34N	58 34W		60
4 CANADA	71816	0	GOOSE, NFLD	53 19N	60 25W	49	46	71816	1	GOOSE UA, NFLD	53 18N	60 22W	36	38
4 CANADA	71867	0	THE PAS, MAN	53 58N	101 06W	271	271	71867	1	THE PASS UA, MAN	53 58N	101 06W	274	273
4 CANADA	71906	0	KUUJJUAQ, QUE	58 06N	68 25W	37	37	71906	1	KUUJJUAQ, UA, QUE	58 07N	68 25W	60	59
4 CANADA	71913	0	CHURCHILL, MAN	58 44N	94 04W	29	28	71913	1	CHURCHILL UA, MAN	58 44N	94 05W	29	27
4 CANADA	71915	0	CORAL	64 12N	83 22W	64	64	71915	1	CORAL HARBOUR UA,	64 12N	83 22W	57	52
4 CANADA	71917	0	EUREKA, NWT	79 59N	85 56W	10	10	71917	1	EUREKA UA, NWT	79 59N	85 56W	10	
4 CANADA	71924	0	RESOLUTE, NWT	74 43N	94 59W	67	67	71924	1	RESOLUTE UA, NWT	74 42N	94 58W	40	40
4 CANADA	71925	0	CAMBRIDGE	69 06N	105 07W	27	23	71925	1	CAMBRIDGE BAY UA,	69 08N	105 04W	26	25
4 CANADA	71926	0	BAKER LAKE,	64 18N	96 05W	18	18	71926	1	BAKER LAKE UA, NWT	64 19N	96 00W	50	50
4 CANADA	71934	0	FORT SMITH,	60 01N	111 57W	205	203	71934	1	FORT SMITH UA, NWT	60 02N	111 56W	203	203
4 CANADA	71945	0	FORT NELSON,	58 50N	122 35W	382	382	71945	1	FORT NELSON UA, BC	58 50N	122 36W	378	377
4 CANADA	71957	0	INUVIK, NWT	68 18N	133 29W	68	59	71957	1	INUVIK UA, NWT	68 19N	133 32W	103	103
4 CANADA	71964	0	WHITEHORSE,	60 43N	135 04W	703	703	71964	1	WHITEHORSE, UA, YT	60 42N	135 04W	704	
4 CURACAO	78988	0	HATO AIRPORT,	12 12N	68 58W	9	8	78988	1	HATO AIRPORT,	12 12N	68 58W	54	8
4 JAMAICA /	78397	0	KINGSTON/NORM	17 56N	76 47W	14	3	78397	1	COOPERS HILL	18 04N	76 51W		786
4 PANAMA	78806	0	HOWARD AFB	08 55N	79 36W	13	16	78806	1	HOWARD AFB	08 59N	79 33W	69	66
4 UNITED STATES	72202	0	MIAMI, FL	25 49N	80 17W	4	3	72202	1	MIAMI, FL	25 45N	80 23W	5	4

<b>RA Country/ Area</b>	<b>Index</b>	<b>Sub- Index</b>	<b>Station</b>	<b>Lat.</b>	<b>Long.</b>	<b>HP</b>	<b>HHA</b>	<b>Index</b>	<b>Sub- Index</b>	<b>Station</b>	<b>Lat.</b>	<b>Long.</b>	<b>HP</b>	<b>HHA</b>
4 UNITED STATES	72327	0	NASHVILLE/MET	36 07N	86 41W	180	180	72327	1	NASHVILLE/OLD	36 15N	86 34W		
4 UNITED STATES	72403	0	WASHINGTON/D	38 57N	77 27W	98	95	72403	1	STERLING, VA.	38 59N	77 28W		
4 UNITED STATES	72429	0	DAYTON/ COX,	39 52N	84 07W	306	307	72429	1	SULPHUR GROVE, OH.	39 52N	84 07W		
4 UNITED STATES	72518	0	ALBANY	42 45N	73 48W	89	88	72518	1	ALBANY, NY.	42 42N	73 50W	96	96
4 UNITED STATES	72520	0	PITTSBURGH/GR	40 30N	80 13W	373	367	72520	1	PITTSBURGH/MOON	40 32N	80 14W		
4 UNITED STATES	72662	0	RAPID	44 03N	103 03W	965	976	72662	1	RAPID CITY WFO, SD.	44 05N	103 13W	1029	1028
6 AUSTRIA /	11035	0	WIEN/HOHE	48 15N	16 21E	209	203	11035	1	WIEN/HOHE WARTE	48 15N	16 22E	200	
6 GERMANY /	10035	0	SCHLESWIG	54 32N	09 33E	48	43	10035	1	SCHLESWIG	54 32N	09 33E	48	47
6 GERMANY /	10393	0	LINDENBERG	52 13N	14 07E	104	98	10393	1	LINDENBERG	52 13N	14 07E	115	112
6 GERMANY /	10410	0	ESSEN	51 24N	06 58E	161	152	10410	1	ESSEN	51 24N	06 58E	153	152
6 GERMANY /	10739	0	STUTT GART/SCH	48 50N	09 12E	311	314	10739	1	STUTT GART/SCHNARRE	48 50N	09 12E	315	315
6 GIBRALTAR	08495	0	GIBRALTAR	36 09N	05 21W		5	08495	1	GIBRALTAR	36 09N	05 21W	4	3
6 GREENLAND /	04270	0	NARSARSUAQ	61 10N	45 25W	32	34	04270	1	NARSARSUAQ	61 09N	45 26W	5	4
6 ICELAND /	04030	0	REYKJAVIK	64 08N	21 54W	61	54	04030	1	REYKJAVIK	64 08N	21 56W	61	14
6 ITALY / ITALIE	16245	0	PRATICA DI	41 39N	12 27E	21	6	16245	1	PRATICA DI MARE	41 39N	12 26E	32	
6 NORWAY /	01001	0	JAN MAYEN	70 56N	08 40W	9	10	01001	1	JAN MAYEN	70 56N	08 40W	9	
6 NORWAY /	01028	0	BJORNOYA	74 31N	19 01E	16	16	01028	1	BJORNOYA	74 31N	19 01E	18	
6 NORWAY /	01152	0	BODO VI	67 16N	14 22E	13	13	01152	1	BODO	67 17N	14 27E	31	33
6 NORWAY /	01241	0	ORLAND III	63 42N	09 36E	7	7	01241	1	ORLAND	63 42N	09 36E	10	

<i>RA Country/ Area</i>	<i>Index</i>	<i>Sub- Index</i>	<i>Station</i>	<i>Lat.</i>	<i>Long.</i>	<i>HP</i>	<i>HHA</i>	<i>Index</i>	<i>Sub- Index</i>	<i>Station</i>	<i>Lat.</i>	<i>Long.</i>	<i>HP</i>	<i>HHA</i>
6 NORWAY /	01415	0	STAVANGER/SO	58 53N	05 38E	9	9	01415	1	STAVANGER/SOLA	58 52N	05 40E	37	
6 NORWAY /	01492	0	OSLO-BLINDERN	59 57N	10 43E	96	94	01492	1	OSLO/BLINDERN	59 57N	10 43E	97	
6 RUSSIAN	22113	0	MURMANSK	68 58N	33 03E	51		22113	1	MURMANSK	68 59N	33 07E	121	
6 RUSSIAN	22522	0	KEM'-PORT	64 59N	34 48E	8		22522	1	KEM'	64 57N	34 39E	8	
6 RUSSIAN	22550	0	ARHANGEL'SK	64 30N	40 44E	8		22550	1	ARHANGEL'SK	64 37N	40 30E	4	
6 RUSSIAN	26063	0	ST.PETERSBURG	59 58N	30 18E	6		26063	1	ST.PETERSBURG	59 57N	30 42E	78	
6 RUSSIAN	27037	0	VOLOGDA	59 19N	39 55E	130		27037	1	VOLOGDA	59 19N	39 55E	126	
6 RUSSIAN	27612	0	MOSKVA	55 50N	37 37E	156		27612	1	MOSKVA	55 45N	37 57E	200	
6 RUSSIAN	27962	0	PENZA	53 07N	45 01E	177		27962	1	PENZA	53 07N	45 01E	172	
6 RUSSIAN	34172	0	SARATOV	51 34N	46 02E	156		34172	1	SARATOV	51 34N	46 02E	166	
6 RUSSIAN	34560	0	VOLGOGRAD	48 47N	44 22E	134		34560	1	VOLGOGRAD	48 47N	44 21E	141	
6 RUSSIAN	34731	0	ROSTOV-NA-DO	47 16N	39 49E	75		34731	1	ROSTOV-NA-DONU	47 15N	39 49E	78	
6 RUSSIAN	34880	0	ASTRAHAN'	46 17N	48 03E	-23		34880	1	ASTRAHAN'	46 17N	47 59E	-21	
6 RUSSIAN	37018	0	TUAPSE	44 06N	39 04E	41		37018	1	TUAPSE	44 06N	39 02E	95	
6 RUSSIAN	37054	0	MINERAL'NYE	44 14N	43 04E	316		37054	1	MINERAL'NYE VODY	44 13N	43 06E	313	
6 SPAIN /	08221	0	MADRID/BARAJA	40 27N	03 33W	582	609	08221	1	MADRID/BARAJAS	40 30N	03 35W	633	631
6 SYRIAN ARAB	40007	0	ALEPPO INT.	36 11N	37 12E	384	393	40007	1	ALEPPO MESELME	36 20N	37 13E	425	424



## APPENDIX B - Country/area names used in Volume A

<b>RA</b>	<b>Country/area names</b>	<b>Comments</b>
1	ALGERIA / ALGERIE	
1	ANGOLA	
1	BENIN	
1	BOTSWANA	
1	BOUVET ISLAND / ILE BOUVET	Not in Publication No. 5
1	BURKINA FASO	
1	BURUNDI	
1	CAMEROON / CAMEROUN	
1	CAPE VERDE / CAP-VERT	
1	CENTRAL AFRICAN REPUBLIC / REPUBLIQUE CENTRAFRICAINE	
1	CHAD / TCHAD	
1	COMOROS / COMORES	
1	CONGO	
1	COTE D'IVOIRE	
1	DEMOCRATIC REPUBLIC OF THE CONGO / REPUBLIQUE DEMOCRATIQUE DU CONGO	
1	DJIBOUTI	
1	EGYPT / EGYPTE	
1	EQUATORIAL GUINEA / GUINEE EQUATORIALE	
1	ERITREA / ERYTHREE	
1	ETHIOPIA / ETHIOPIE	
1	GABON	

<b>RA</b>	<b>Country/area names</b>	<b>Comments</b>
1	GAMBIA / GAMBIE	
1	GHANA	
1	GUINEA / GUINEE	
1	GUINEA-BISSAU / GUINEE-BISSAU	
1	KENYA	
1	LESOTHO	
1	LIBERIA	
1	LIBYAN ARAB JAMAHIRIYA / JAMAHIRIYA ARABE LIBYENNE	
1	MADAGASCAR	
1	MADEIRA / MADERE	Not in Publication No. 5, but Portugal is in Publication No.5
1	MALAWI	
1	MALI	
1	MAURITANIA / MAURITANIE	
1	MAURITIUS / MAURICE	
1	MOROCCO / MAROC	
1	MOZAMBIQUE	
1	NAMIBIA / NAMIBIE	
1	NIGER	
1	NIGERIA	
1	OCEAN ISLANDS / ILES DANS L'OCEAN	Not in Publication No. 5
1	RWANDA	
1	SENEGAL	
1	SEYCHELLES	

<b>RA</b>	<b>Country/area names</b>	<b>Comments</b>
1	SIERRA LEONE	
1	SOMALIA / SOMALIE	
1	SOUTH AFRICA / AFRIQUE DU SUD	
1	SPAIN (CANARY ISLANDS) / ESPAGNE (ILES CANARIES)	Spain mentioned twice in Region I
1	SPAIN (CEUTA AND MELILLA) / ESPAGNE (CEUTA ET MELILLA)	Spain mentioned twice in Region I
1	SUDAN / SOUDAN	
1	SWAZILAND	
1	TOGO	
1	TUNISIA / TUNISIE	
1	UGANDA / OUGANDA	
1	UNITED REPUBLIC OF TANZANIA / REPUBLIQUE-UNIE DE TANZANIE	
1	WESTERN SAHARA / SAHARA OCCIDENTAL	Not in Publication No. 5
1	ZAMBIA / ZAMBIE	
1	ZIMBABWE	
2	AFGHANISTAN, ISLAMIC STATE OF / AFGHANISTAN, ETAT ISLAMIQUE D'	
2	BAHRAIN / BAHREIN	
2	BANGLADESH	
2	CAMBODIA / CAMBODGE	
2	CHINA / CHINE	
2	DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA / REPUBLIQUE POPULAIRE DEMOCRATIQUE DE COREE	
2	HONG KONG, CHINA / HONG-KONG, CHINE	
2	INDIA (STATIONS NORTH OF LATITUDE 20°N) / INDE (STATIONS AU NORD DE LA LATITUDE 20°N)	India mentioned twice for Region II
2	INDIA (STATIONS SOUTH OF LATITUDE 20°N) / INDE (STATIONS AU SUD DE LA LATITUDE 20°N)	India mentioned twice for Region II

<b>RA</b>	<b>Country/area names</b>	<b>Comments</b>
2	IRAN, ISLAMIC REPUBLIC OF / IRAN, REPUBLIQUE ISLAMIQUE D'	
2	IRAQ	
2	JAPAN / JAPON	
2	KAZAKHSTAN / KAZAKHSTAN	
2	KUWAIT / KOWEIT	
2	KYRGYZSTAN / KIRGHIZISTAN	Kyrgyz Republic mentioned in Publication No. 5
2	LAO PEOPLE'S DEMOCRATIC REPUBLIC / REPUBLIQUE DEMOCRATIQUE POPULAIRE LAO	
2	MACAO, CHINA / MACAO, CHINE	
2	MALDIVES	
2	MONGOLIA / MONGOLIE	
2	MYANMAR	
2	NEPAL	
2	OMAN	
2	PAKISTAN	
2	QATAR	
2	REPUBLIC OF KOREA / REPUBLIQUE DE COREE	
2	RUSSIAN FEDERATION (IN ASIA) / FEDERATION DE RUSSIE (EN ASIE)	
2	SAUDI ARABIA / ARABIE SAOUDITE	
2	SRI LANKA	
2	TAJIKISTAN / TADJIKISTAN	
2	THAILAND / THAILANDE	
2	TURKMENISTAN	
2	UNITED ARAB EMIRATES / EMIRATS ARABES UNIS	

<b>RA</b>	<b>Country/area names</b>	<b>Comments</b>
2	UZBEKISTAN / OUZBEKISTAN	
2	VIET NAM	
2	YEMEN	Republic of Yemen mentioned in Publication No. 9
3	ARGENTINA / ARGENTINE	
3	BOLIVIA / BOLIVIE	
3	BRAZIL / BRESIL	
3	CHILE / CHILI	
3	COLOMBIA / COLOMBIE	
3	ECUADOR / EQUATEUR	
3	FRENCH GUIANA / GUYANE FRANCAISE	France mentioned in Publication No. 5
3	GUYANA	
3	ISLANDS / ILES (88: 800 - 998)	Not in Publication No. 5
3	PARAGUAY	
3	PERU / PEROU	
3	SURINAME	
3	URUGUAY	
3	VENEZUELA	
4	ANGUILLA	Not in Publication No. 5
4	ANTIGUA AND BARBUDA / ANTIGUA-ET-BARBUDA	
4	BAHAMAS	
4	BARBADOS / BARBADE	
4	BELIZE	
4	BERMUDA / BERMUDES	Not in Publication No. 5

<b>RA</b>	<b>Country/area names</b>	<b>Comments</b>
4	BRITISH VIRGIN ISLANDS / ILES VIERGES BRITANNIQUES	Not in Publication No. 5
4	CANADA	
4	CAYMAN ISLANDS / ILES CAIMANES	Not in Publication No. 5
4	CLIPPERTON	Not in Publication No. 5
4	COLOMBIA / COLOMBIE (SAN ANDRES AND PROVIDENCIA ISLANDS / ILES SAN ANDRES ET PROVIDENCIA)	
4	COSTA RICA	
4	CUBA	
4	CURACAO AND/ET BONAIRE	Not in Publication No. 5
4	DOMINICA / DOMINIQUE	
4	DOMINICAN REPUBLIC / REPUBLIQUE DOMINICAINE	
4	EL SALVADOR	
4	GRENADA / GRENADE	Not in Publication No. 5
4	GUADELOUPE, ST MARTIN, ST BARTHELEMY (AND OTHER FRENCH ISLANDS IN THE VICINITY / ET AUTRES ILES FRANCAISES DANS LE VOISINAGE)	France mentioned in Publication No. 5
4	GUATEMALA	
4	HAITI	
4	HONDURAS	
4	JAMAICA / JAMAIQUE	
4	MARTINIQUE	France mentioned in Publication No. 5
4	MEXICO / MEXIQUE	
4	NETHERLANDS ANTILLES AND ARUBA / ANTILLES NEERLANDAISES ET ARUBA	
4	NICARAGUA	
4	PANAMA	
4	PUERTO RICO AND US POSSESSIONS IN THE CARIBBEAN AREA / PORTO-RICO ET POSSESSIONS DES ETATS-UNIS DANS LA REGION DES CARAIBES	Not in Publication No. 5

**RA Country/area names**

- 4 SAINT KITTS AND NEVIS / SAINT-KITTS-ET-NEVIS
- 4 SAINT LUCIA / SAINTE-LUCIE
- 4 SAINT VINCENT / SAINT-VINCENT
- 4 ST. PIERRE AND/ET MIQUELON
- 4 TRINIDAD AND TOBAGO / TRINITE ET TOBAGO
- 4 TURKS AND CAICOS ISLANDS / ILES TURKS ET ILES CAIQUES
- 4 UNITED STATES OF AMERICA (ALASKA) / ETATS-UNIS D'AMERIQUE (ALASKA)  
for Region V
- 4 UNITED STATES OF AMERICA / ETATS-UNIS D'AMERIQUE
- 4 VENEZUELA (ISLA DE AVES)
- 5 AUSTRALIA (ADDITIONAL ISLANDS) / AUSTRALIE (ILES SUPPLEMENTAIRES)
- 5 AUSTRALIA / AUSTRALIE 25°S - 30°S)
- 5 AUSTRALIA / AUSTRALIE (20°S - 25°S)
- 5 AUSTRALIA / AUSTRALIE (LAT 10°S - 15°S)
- 5 AUSTRALIA / AUSTRALIE (LAT 15°S - 20°S)
- 5 AUSTRALIA / AUSTRALIE (LAT 30°S - 35°S)
- 5 AUSTRALIA / AUSTRALIE (LAT 35°S - 40°S)
- 5 AUSTRALIA / AUSTRALIE (LAT 40°S - 45°S)
- 5 BRUNEI DARUSSALAM
- 5 COOK ISLANDS / ARCHIPEL DE COOK
- 5 DETACHED ISLANDS / ILES ISOLEES (91 533)
- 5 DETACHED ISLANDS / ILES ISOLEES (91 : 753, 754)
- 5 DETACHED ISLANDS / ILES ISOLEES (91: 960 - 998)
- 5 EAST TIMOR / TIMOR ORIENTAL

**Comments**

- Not in Publication No. 5
- Not in Publication No. 5
- France mentioned in Publication No. 5
- Not in Publication No. 5
- USA twice mentioned for Region IV, not included in Volume A
- USA twice mentioned for Region IV
- Australia 8 times mentioned for Region V
- Australia 8 times mentioned for Region V
- Australia 8 times mentioned for Region V
- Australia 8 times mentioned for Region V
- Australia 8 times mentioned for Region V
- Australia 8 times mentioned for Region V
- Australia 8 times mentioned for Region V
- Australia 8 times mentioned for Region V
- Not in Publication No. 5
- Not in Publication No. 5
- Not in Publication No. 5
- Not in Publication No. 5

<b>RA</b>	<b>Country/area names</b>	<b>Comments</b>
5	FIJI / FIDJI	
5	FRENCH POLYNESIA (AUSTRAL ISLANDS) / POLYNESIE FRANCAISE (ILES AUSTRALES)	French Polynesia mentioned 4 times for Region V
5	FRENCH POLYNESIA (MARQUESAS ISLANDS) / POLYNESIE FRANCAISE (ILES MARQUISES)	French Polynesia mentioned 4 times for Region V
5	FRENCH POLYNESIA (SOCIETY ISLANDS) / POLYNESIE FRANCAISE (ILES DE LA SOCIETE)	French Polynesia mentioned 4 times for Region V
5	FRENCH POLYNESIA (TUAMOTU ISLANDS AND GAMBIER ISLANDS) / POLYNESIE FRANCAISE (ILES TUAMOTU ET ILES GAMBIER)	French Polynesia mentioned 4 times for Region V
5	INDONESIA / INDONESIE (JAWA)	Indonesia 6 times mentioned for Region V
5	INDONESIA / INDONESIE (KALIMANTAN)	Indonesia 6 times mentioned for Region V
5	INDONESIA / INDONESIE (MALUKU AND / ET IRIAN JAYA)	Indonesia 6 times mentioned for Region V
5	INDONESIA / INDONESIE (NUSATENGARA)	Indonesia 6 times mentioned for Region V
5	INDONESIA / INDONESIE (SULAWESI)	Indonesia 6 times mentioned for Region V
5	INDONESIA / INDONESIE (SUMATRA)	Indonesia 6 times mentioned for Region V
5	ISLANDS IN THE PACIFIC OCEAN NORTH OF THE EQUATOR / ILES DANS L'OCEAN PACIFIQUE AU NORD DE L'EQUATEUR	Not in Publication No. 5
5	ISLANDS / ILES (96: 995, 996)	Not in Publication No. 5
5	KIRIBATI	Not in Publication No. 5
5	MALAYSIA (PENINSULAR MALAYSIA) / MALAISIE (MALAISIE PENINSULAIRE)	Malaysia twice mentioned for Region V
5	MALAYSIA (SABAH AND SARAWAK) / MALAISIE (SABAH ET SARAWAK)	Malaysia twice mentioned for Region V
5	NAURU	Not in Publication No. 5
5	NEW CALEDONIA / NOUVELLE-CALEDONIE	
5	NEW ZEALAND / NOUVELLE-ZELANDE	
5	NIUE / NIOUE	
5	PAPUA NEW GUINEA / PAPOUASIE - NOUVELLE-GUINEE	
5	PHILIPPINES	
5	PHOENIX ISLANDS / ILES PHOENIX	Not in Publication No. 5



**RA Country/area names**

**Comments**

5	SAMOA AND AMERICAN SAMOA / SAMOA ET SAMOA AMERICAIN	Samoa and American Samoa not in Publication No. 5
5	SINGAPORE / SINGAPOUR	
5	SOLOMON ISLANDS / ILES SALOMON	
5	SOUTHERN LINE ISLANDS / ILES MERIDIONALES DE LA LIGNE	Not in Publication No. 5
5	TOKELAU (AND SWAINS IS.) / TOKELAOU (ET ILE SWAINS)	Not in Publication No. 5
5	TONGA	
5	TUVALU	Not in Publication No. 5
5	VANUATU	
6	ALBANIA / ALBANIE	
6	ARMENIA / ARMENIE	
6	AUSTRIA / AUTRICHE	
6	AZERBAIJAN / AZERBAIDJAN	
6	BELARUS	
6	BELGIUM / BELGIQUE	
6	BOSNIA AND HERZEGOVINA / BOSNIE-HERZEGOVINE	
6	BULGARIA / BULGARIE	
6	CROATIA / CROATIE	
6	CYPRUS / CHYPRE	
6	CZECH REPUBLIC / REPUBLIQUE TCHEQUE	
6	DENMARK AND FAROE ISLANDS / DANEMARK ET ILES FEROE	
6	ESTONIA / ESTONIE	
6	FINLAND / FINLANDE	
6	FRANCE	Not in Volume A for Region I

<b>RA</b>	<b>Country/area names</b>	<b>Comments</b>
6	GEORGIA / GEORGIE	
6	GERMANY / ALLEMAGNE	
6	GIBRALTAR	Not in Publication No. 5
6	GREECE / GRECE	
6	GREENLAND / GROENLAND	
6	HUNGARY / HONGRIE	
6	ICELAND / ISLANDE	
6	IRELAND / IRLANDE	
6	ISRAEL	
6	ITALY / ITALIE	
6	JORDAN / JORDANIE	
6	KAZAKHSTAN / KAZAKHSTAN (EUROPE)	
6	LATVIA / LETTONIE	
6	LEBANON / LIBAN	
6	LITHUANIA / LITUANIE	
6	LUXEMBOURG	
6	MALTA / MALTE	
6	NETHERLANDS / PAYS-BAS	
6	NORWAY / NORVEGE	
6	OTHER STATIONS IN REGION VI / AUTRES STATIONS DANS LA REGION VI	Not in Publication No. 5
6	POLAND / POLOGNE	
6	PORTUGAL	
6	REPUBLIC OF MOLDOVA / REPUBLIQUE DE MOLDOVA	

<b>RA</b>	<b>Country/area names</b>	<b>Comments</b>
6	ROMANIA / ROUMANIE	
6	RUSSIAN FEDERATION (IN EUROPE) / FEDERATION DE RUSSIE (EN EUROPE)	
6	SLOVAKIA / SLOVAQUIE	
6	SLOVENIA / SLOVENIE	
6	SPAIN / ESPAGNE	
6	SWEDEN / SUEDE	
6	SWITZERLAND AND LIECHTENSTEIN / SUISSE ET LIECHTENSTEIN	Not in Publication No. 5
6	SYRIAN ARAB REPUBLIC / REPUBLIQUE ARABE SYRIENNE	
6	THE FORMER YUGOSLAV REPUBLIC OF MACEDONIA / EX-REPUBLIQUE YOUGOSLAVE DE MACEDOINE	
6	TURKEY / TURQUIE	
6	UKRAINE	
6	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND / ROYAUME-UNI DE GRANDE-BRETAGNE ET D'IRLANDE DU NORD	Not in Volume A for Regions I, V
6	YUGOSLAVIA / YOUGOSLAVIE	
7	STATIONS OPERATED BY ARGENTINA / STATIONS EXPLOITEES PAR L'ARGENTINE	
7	STATIONS OPERATED BY AUSTRALIA / STATIONS EXPLOITEES PAR L'AUSTRALIE	
7	STATIONS OPERATED BY CHILE / STATIONS EXPLOITEES PAR LE CHILI	
7	STATIONS OPERATED BY CHINA / STATIONS EXPLOITEES PAR LA CHINE	
7	STATIONS OPERATED BY FINLAND / STATIONS EXPLOITEES PAR LA FINLANDE	
7	STATIONS OPERATED BY FRANCE / STATIONS EXPLOITEES PAR LA FRANCE	
7	STATIONS OPERATED BY GERMANY / STATIONS EXPLOITEES PAR L'ALLEMAGNE	
7	STATIONS OPERATED BY INDIA / STATIONS EXPLOITEES PAR L'INDE	
7	STATIONS OPERATED BY ITALY / STATIONS EXPLOITEES PAR L'ITALIE	
7	STATIONS OPERATED BY JAPAN / STATIONS EXPLOITEES PAR LE JAPON	

<b>RA</b>	<b>Country/area names</b>	<b>Comments</b>
7	STATIONS OPERATED BY NORWAY / STATIONS EXPLOITEES PAR LA NORVEGE	
7	STATIONS OPERATED BY POLAND / STATIONS EXPLOITEES PAR LA POLOGNE	
7	STATIONS OPERATED BY SOUTH AFRICA / STATIONS EXPLOITEES PAR L'AFRIQUE DU SUD	
7	STATIONS OPERATED BY SPAIN / STATIONS EXPLOITEES PAR L'ESPAGNE	
7	STATIONS OPERATED BY THE REPUBLIC OF KOREA / STATIONS EXPLOITEES PAR LA REPUBLIQUE DE COREE	
7	STATIONS OPERATED BY THE RUSSIAN FEDERATION / STATIONS EXPLOITEES PAR LA FEDERATION DE RUSSIE	
7	STATIONS OPERATED BY THE UNITED KINGDOM / STATIONS EXPLOITEES PAR LE ROYAUME-UNI	
7	STATIONS OPERATED BY THE U.S.A. (UNIVERSITY OF WISCONSIN) / STATIONS EXPLOITEES PAR LES U.S.A. (UNIVERSITE DU WISCONSIN)	
7	STATIONS OPERATED BY THE U.S.A. / STATIONS EXPLOITEES PAR LES U.S.A.	
7	STATIONS OPERATED BY UKRAINE / STATIONS EXPLOITEES PAR L'UKRAINE	
7	STATIONS OPERATED BY URUGUAY / STATIONS EXPLOITEES PAR L'URUGUAY	
8	FIXED SHIP STATIONS	
5	MICRONESIA, FEDERATES STATES OF	Not in Volume A
4	BRITISH CARIBBEAN TERRITORIES	Not in Volume A