

WORLD METEOROLOGICAL ORGANIZATION

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REGIONAL ASSOCIATION II  
(ASIA)

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ITEM 6.1

ENGLISH ONLY

**WORKING GROUP ON PLANNING AND  
IMPLEMENTATION OF THE WWW IN REGION II  
FOURTH SESSION**

MOSCOW, 10-13 SEPTEMBER 2003

**REGIONAL ASPECTS OF THE WWW COMPONENTS AND SUPPORT FUNCTIONS,  
INCLUDING REPORTS BY THE RAPPORTEURS/COORDINATORS**

**Global Observing System (GOS)**

*(Submitted by Mr Chen Yongqing,  
Rapporteur on the Regional Aspects of the GOS)*

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**Summary and purpose of document**

This document provides information on the activities related to the implementation of the GOS in RA II and proposals for revision of the list of RBSN and RBCN stations.

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**ACTION PROPOSED**

The group is invited to note information contained in the document and to recommend follow up actions on proposals elaborated by the rapporteur.

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- Appendices:**
- I. Proposed list of stations comprising the Regional Basic Synoptic Network (RBSN) in RA II
  - II. Proposed list of stations comprising the Regional Basic Climatological Network (RBCN) in RA II

## DISCUSSION

### Introduction

1. There were some positive trends in the implementation of GOS in RA II in the past three years. In the surface-based subsystem, the RBSN and RBCN lists had been revised, and some new observing systems were developed. For the space-based subsystem, RA II Members installed more satellite data receivers. There were, however, some problems in performance of the GOS in RA II.

### Surface-Based Sub-System

#### *The Regional Basic Synoptic Network (RBSN)*

2. In 2000, a revised RBSN list for RA II was prepared by the Rapporteur on the Regional Aspects of the GOS who was appointed by XII-RA II (Seoul, September 2000). The new RBSN list resulted in 1198 surface stations, 298 radiosonde stations and 35 rawin stations. When revising the RBSN, the following principles were applied:

- The revised RBSN should have a maximum spatial resolution of 150 km for the surface and 250 km for upper-air stations;
- If an RBSN station had been “silent” according to monitoring results and another RBSN station located nearby (less than 100 km) had regularly reported its observation, the “silent” station should be replaced by the neighbouring station. If there were no regularly reporting RBSN station nearby, the “silent” station should remain on the list;
- In data sparse areas, existing stations should fill gaps (according to Vol. A, publication No. 9) although these may have been previously included in the RBSN;
- Those stations that Members propose include the RBSN list should remain in or be added to the new RBSN list.

3. During the past three years, the RBSN list continued to be adjusted by the WMO Secretariat in accordance with the changes provided by RA II members. The current RBSN list includes 1235 surface stations, 294 radiosonde stations and 33 rawin stations (as of March 2003).

4. Recently, the PR of Kazakhstan requested me to include some additional stations into the RBSN list. According to the RBSN station selecting criteria, it is suggested that 6 additional stations should be included into the RBSN list. Therefore, the total number of proposed RBSN stations is 1241 (See Appendix I).

5. As indicated in the WWW twenty-first status report on implementation issued by WMO Secretariat in 2002, the level of implementation of RBSN surface stations as of 1 October 2002, according to information provided by RA II Members, was 91%. The level of implementation of RBSN upper-air stations was 82% for radiosonde and 76% for rawin respectively. Although the implementation level of surface RBSN stations in RA II has increased in recent years, the implementation level of upper-air RBSN stations is still low.

6. The October 2002 annual monitoring results showed that the availability of RBSN in RA II was 83% for SYNOP reports and 64% for TEMP reports. It is thus evident that the availability of SYNOP reports from the Region II is generally satisfactory whilst the availability of TEMP reports is not satisfactory from northern, southeastern and western parts of the Region. October 2002 annual monitoring results also showed that among the RBSN stations, 78 SYNOP stations and 47 TEMP (part A) stations, which had been implemented, were “silent,” and 6 SYNOP stations and 7 TEMP (part A) stations, which were not implemented,

were also “silent.” Any one of the following reasons may lead to a silent station: unsettled conditions in the country, lack of resources, costly sondes, lack of trained manpower, non-availability of equipment, lack of allocation of funds to NMS, poor communications infrastructure.

7. In order to maintain the stability of the RBSN network, it is suggested that the main framework of the RBSN network should be kept unchanged, and the minor changes may only be made in accordance with the request of the RA II Members. Whenever the RBSN network is modified, the above principles that have been approved by XII-RA II should be applied. It is also suggested that those Members, whose TEMP report availability rate are not satisfactory should make more efforts to improve their upper-air data availability and provide more TEMP reports to the GTS.

#### *The Regional Basic Climatological Network (RBCN)*

8. In order to evolve the network of stations necessary to provide a good representation of climate on a regional scale, a new concept of Regional Basic Climatological Networks (RBCN) had been established in the last RA II WWW planning and implementing session. Accordingly, the RBCN list was developed and approved by XII-RA II, which resulted in 593 RBCN surface- and 194 upper-air-observing stations. The SMM result shows that the availability of RBCN in RA II is 50% for CLIMAT reports and 42% for CLIMAT TEMP reports. Thus, the implementation rate of RBCN in RA II was not satisfactory because of low report availability. One reason may be that the concept of RBCN had not been fully understood by all Members, and some RBCN stations have not yet been prepared to provide CLIMAT reports.

9. It is suggested that further measures should be taken to make RA II Members aware of the importance of the RBCN for the climate prediction and research, and every Member should also make every effort to provide CLIMAT and CLIMAT/TEMP reports from RBCN stations to GTS. The proposed list of RBCN stations is given in Appendix II.

#### *Marine observations*

10. More effort among RA II Members had been given to further develop Marine-observing networks. In RA II, Members had established their own ARGO programme. Japan has 85 ARGO stations; the Republic of Korea has 16 ARGO stations; China had also established one ARGO station and more stations planned to be deployed.

#### *Aircraft observations*

11. Although the progress in providing AMDAR observations in Region II has not been fully satisfactory, several projects are under development. Saudi Arabia will implement the first operational system in the Middle East, and data from 4 aircraft are being received and used for system testing. In addition, Saudi Arabia is also leading the development of a regional programme expected to involve other countries in the Middle East region. Hong Kong, China is developing a programme and has begun onboard testing. Japan is receiving real-time data and evaluating system components. The Republic of Korea is planning its own AMDAR programme. China Meteorological Administration and China civil aviation have reached an agreement to cooperate on AMDAR plan and have initiated a pilot project. Egypt, the United Arab Emirates and Kazakhstan have expressed their interests in the AMDAR programme. In the Middle East, most countries are receiving E-AMDAR data, while some other countries are also receiving data from the US, Australia and E-AMDAR. Oman, Saudi Arabia and Egypt are interested in establishing dedicated target programmes.

12. In overall, the availability of AMDAR reports in Region II continued to be low. In some countries, difficulties existed in communicating AMDAR data to the Meteorological Services. It is suggested that more workshops should be organized in RA II to train experts

and discuss how to participate the AMDAR programme. It is also suggested that there is a need to develop a regional programme or an action plan to promote the collection and exchange of the AMDAR data. Some measures should be taken to make the Members' governments aware of how useful and important the AMDAR data. More detailed guidance materials related to AMDAR programmes should be sent to Members in Region II.

#### *Other Observations*

13. Several RA II Members are deploying new meteorological radars to help mitigate natural disasters. Japan, Hong Kong, China, Vietnam and China are deploying Doppler radar systems. China had deployed about 53 new generation weather radar systems and about 126 Doppler radars will be established in the country in accordance with the "China new generation weather Radar monitoring network distribution plan", which has been approved by the Chinese Meteorological Administration (CMA).

### **Space-based Sub-System**

#### *Operational Satellites*

14. With regard to LEO satellites, the polar orbiting meteorological satellites FY-1C and FY-1D had provided helpful meteorological data for RA II Members. RA II Members also benefit from NOAA (USA) and METEOR (Russian Federation) Satellite.

15. With regard to the geostationary satellite, FY(China) and GMS(Japan) series of satellites have greatly helped RA II Members in weather monitoring and forecast.

#### *Research and Development (R&D) Satellites*

16. In China, FY-1A and FY-1B satellites are mainly used in monitoring of the vegetation growth, flooding, snow coverage, sea ice, distribution of sea surface temperature and the erosion paths at the mouths of rivers.

17. The MODIS instrument aboard a NASA R&D satellite had been used in experimental applications in land surface and environmental monitoring in China. It was found that it had the obvious advantage of its 250-metre resolution, compared with the operational polar orbiting meteorological satellite. With the Ch-1 and Ch-2 (wave lengths 0.62-0.67  $\mu\text{m}$  and 0.841-0.867  $\mu\text{m}$ ), some new information (not available from operational polar orbiting meteorological satellite images) had been detected. This included such details as: rich detail of water bodies, desert water body detection, sea ice monitoring, sleet and ice monitoring over Huanghe River, calculation of the coverage of burned area and snow coverage monitoring.

#### *Ground Segment*

18. 30 out of 34 Members of RA II had equipped with low-resolution LEO receivers (APT) but only 14 out of 34 Members are equipped with high-resolution LEO receivers (HRPT). 32 out of 34 Members are equipped with at least one LEO receiver, which is an increase of one from 1995. Large portions of Southern Asia have no reception for HRPT. Similar situation exists for the geostationary satellite receivers. Out of 34 Members, 30 have low-resolution WEFAX receivers while only 12 have high-resolution (HR) receivers. In all, 32 out of 34 Members have at least one geostationary receiver; the number has increased by six since the last survey. There were significant increases (192) in the numbers of receivers for both LEO and geostationary satellites and the percentage of equipped Members increased more than any other Region (+18%). The major improvement in the Region since 1992 has been in the area of the low-resolution LEO receivers, where an increase of 100 receivers had been achieved.

## **Other activities carried out by the Rapporteur**

### *Coordinating the work related to the RBSN stations*

19. A letter was sent to Members by WMO secretariat in 2002 requesting to inform rapporteur on the Regional Aspects of the GOS on any changes of their RBSN stations. Unfortunately, only a few Member countries responded to the letter and sent the required information. It is very important that any changes in stations performance introduced by Members should be communicated to the rapporteur to update the RBSN list timely.

20. Unfortunately, the newly approved RBSN station list contained some RBSN stations of Pakistan, Maldives and Iran which are not included in Volume A, and their parameters like longitude, latitude and elevation are absent. Responding to the request of Mr Harald Daan, the CBS rapporteur of Volume A, I sent an E-mail to the PR of Pakistan asking for this information. I have received the reply from Pakistan and passed the information to Mr Daan.

21. It is strongly suggested that each Member should nominate a national focal point on GOS matters in RA II and provide their detailed profiles, including E-mail address to the *Rapporteur on the Regional Aspects of the GOS*. This provision will greatly facilitate regular updates of RBSN list in consultation with WMO Secretariat.

### *Collaboration with Rapporteur on the improvement of Volume A*

22. CBS-XII has appointed Mr Daan, from the Netherlands, as the Rapporteur on the Improvement of Volume A. Working closely with the focal points of lead centers and the WMO Secretariat, the rapporteur has prepared a report, which contained proposals on how to revise the Volume A. During preparation of the report, the rapporteur sent me his draft report twice for comments. In response, the following comments have been provided:

- In China Meteorological Administration, the basic parameters such as station index, name, latitude, longitude, pressure elevation, observing program, reporting type are mostly interested. Some meteorologists also pay attention to other information like the type of instruments. Furthermore, climatologists pay more attention to the history of the station (metadata).
- As regards the definition of Volume A, I believe that Volume A is a composite database which should include all information needed in weather forecast and climate prediction, which should be provided by Members. It also should be a database, which serves for any other users. Specifically, the following has been suggested to be included in Volume A:
  - The data exchange type of report in each station, be indicated as “ Regional exchange”, “Global exchange” or “National exchange”;
  - Satellite information, and in particular, the parameters of each meteorological satellite in use;
  - In order to get more detailed information or to confirm parameters of stations, a list of names with addresses (E-mail address) of the focal points nominated by each Member should be included in Volume A;
  - The problem of the station index system should be highlighted. In China, more and more AWS are being installed for the meso-scale and small-scale weather forecast. In view of more denser station network in the future, the existing numbering system is insufficient. I suggest that the station number be extended to 4 figures, and the block number could be kept the same (as the telephone number does);

- As regards the mechanism of the updating of the Volume A, a focal point responsible for the management of the observing network in the country should be nominated by the Member, so that *Rapporteur on the Regional Aspects of the GOS* and others concerned could find the right person to get the needed information.

23. The Report on possible improvements to WMO No. 9, Volume A was posted on WMO Web site for further comments. CBS-Ext.(02) adopted proposed recommendations and the secretariat has recently started to compile a revised version of Vol. A.

*Participation in the Second Session of Implementation/Coordination Team on the Global Observing System*

24. The second session of the CBS Implementation and Coordination Team for Integrated Observing Systems was held on 14 October 2002 at WMO Headquarters, Geneva, Switzerland. I was invited and participated in the session as the regional representative of RA II. I prepared a status report of the GOS in RA II and submitted it to the session. In particular, the following points were emphasized and discussed during the session.

- A report on Monitoring Statistics from the Monitoring Period July 2001 – June 2002 showed relatively stable levels of the availability SYNOP and TEMP reports over the last four years, although some variation was noted.
- The number of reports from Marine observing systems continued to rise with monthly ship reports now stabilized at 160,000 and buoy reports approaching 200,000. The Array for Real-time Geostrophic Oceanography (ARGO) network had 535 floats in August of 2002 and expected 3,000 floats by the end of 2005. The number of ships making upper air reports was nearly 6000 and increasing.
- The average number of observations exchanged daily on the GTS had increased from 78,000 in 2000 to about 140,000 in 2002 and that this was expected to increase to 200,000 over the next few years. Although a large proportion of these AMDAR data were obtained over Europe and North America, and to a lesser extent over Australasia, Asia, and Southern Africa, work is proceeding to develop new operational programmes and/or programmes of targeted observations in data sparse regions. Collaboration was continuing with ICAO in regard to Aircraft Dependent Surveillance (ADS), meteorological reports over the North Atlantic and Pacific regions as observations were being passed to the World Area Forecast Centres (WAFCs) in London and Washington.
- ET on Automatic Weather Stations had suggested a credible quality control programme for AWSs. In addition, the team had proposed specifications for the reporting of AWS data using binary codes and collaborated with CIMO in reviewing the requirements for accuracy of instruments used on AWSs.
- Progress in the development of Operational Data Requirements and Redesign of the Global Observing System had been made. According to the report of the ET-ODRRGOS, future GOS should be built upon the existing components, both surface and space based, and capitalize on existing observing technologies not presently incorporated or fully exploited into the GOS. 22 recommendations were made by ET-ODRRGOS to the surface based component of the GOS, including improved data distribution; enhanced AMDAR ascent/descent as well as flight level data, especially over data sparse areas; optimized radiosonde launches; targeted observations; inclusion of ground based GPS, radars and wind profilers into the GOS; increased oceanic coverage through expanded Automated Ship balloon

observations, drifting buoys, and ARGO; and use of Unmanned Aeronautical Vehicles (UAVs). Regarding the space based component of the GOS, ET-ODRRGOS made 20 recommendations (9 for operational GEO and LEO, 11 for R&D satellites) that were built upon the known plans of the operational and R&D satellite operators that call for rigorous calibration of remotely sensed radiances as well as improved spatial, spectral, temporal, radiometric accuracies. In particular, the wind profiling and global precipitation measurement missions were singled out for their importance to the future GOS.

- Recommendations for evolution of space based and surface based components of GOS had been drafted, reviewed, and submitted to CBS. The document summarized the most pressing observational needs and recommendations for the most cost-effective actions for meeting them in the near term and 10-15 years from now. A vision for the GOS of 2015 and beyond had been also drafted.
  - Based on the recommendations of the Executive Council and CBS, the sessions of XII-RA II (September 2000), XIII-RA III (September 2001), XIII-RA-IV (March-April 2001), XIII-RA V (May 2002), XIII-RA VI (May 2002), and XIII-RA I (November 2002) considered and agreed to the concept of defining a separate RBCN for their regions and adopted appropriate resolutions.
  - The Rapporteur on the GOS regulatory material had prepared a revision of the Manual on GOS. The revised Manual has been approved by CBS Ext.(02) and posted on WMO Web site for comments. The basic principle were followed when revising the Manual: no parts of the Manual should be deleted unless the material was erroneous, outdated, irrelevant or was not part of the regulatory material and could be located elsewhere.
  - The main topics and recommendations provided by the CBS Rapporteur on the Improvement of Volume A were as follows:
    - (a) The purpose and scope of Volume A should be broadened with a view to users in the climatological community, requiring information on both actual and historical stations.
    - (b) The procedures for communication between Members and the Secretariat concerning changes and corrections in the Volume should be relaxed and allow practices on the working level vs only between the Secretary-General and Permanent Representatives as at present. The designation of authorised focal points in the NMHS's, communicating with the appropriate Secretariat officer directly, could help in a quick and timely updating of the Volume. The use of electronic mail for this purpose should be encouraged for non-proprietary exchanges.
    - (c) Monitoring results should be linked to the contents of Volume A. In particular, the reference standard of monitoring results should be available in Volume A.
    - (d) The contents of Volume A need a revision; the Report provides detailed proposals for this revision. Information that cannot be absorbed by automated systems, which read the Volume, should be either excluded or converted into well-defined codes.
    - (e) The limitations of the index numbering system are raising problems already in several countries. This problem needs to be addressed on a short term. The Report provides some suggestions for extension.
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## APPENDIX I

POPOSED LIST OF STATIONS COMPRISING THE REGIONAL BASIC  
SYNOPTIC NETWORK (RBSN) IN RAIL

<u>INDEX</u>	<u>STATION NAME</u>	<u>OBSERVATIONS</u>
<b>AFGHANISTAN, ISLAMIC STATE OF</b>		
40904	FAIZABAD	S
40913	KUNDUZ	S
40922	MIMANA	S
40938	HERAT	S
40938	HERAT	W R
40942	CHAKHCHARAN	S
40945	BAMIYAN	S
40948	KABUL AIRPORT	W R
40954	JALALABAD	S
40971	KHOST	S
40974	FARAH	S
40977	TIRIN KOT	S
40988	BUST	S
40990	KANDAHAR AIRPORT	S
40996	DESHOO	S
<b>BAHRAIN</b>		
41150	BAHRAIN (INT. AIRPORT)	S
<b>BANGLADESH</b>		
41859	RANGPUR	S
41883	BOGRA	S
41883	BOGRA	W R
41886	MYMENSINGH	S
41891	SYLHET	S
41907	ISHURDI	S
41923	DHAKA	S
41923	DHAKA	W R
41936	JESSORE	S
41950	BARISAL	S
41978	CHITTAGONG (PATENGA)	S
41992	COX'S BAZAR	S
<b>CAMBODIA</b>		
48966	SIEMREAP	S
48972	STUNG TRENG	S
48978	SEN MONOROM	S
48982	KOS KONG	S
48983	KOMPONG SOM/VILLE (EX SIHANOUKVILLE)	S
48991	PHNOM-PENH/POCHENTONG	S
48991	PHNOM-PENH/POCHENTONG	W R
48998	SVAY RIENG	S
<b>CHINA</b>		
50557	NENJIANG	S
50557	NENJIANG	W R
50603	XIN BARAG YOUQI	S
50632	BUGT	S
50727	ARXAN	S
50745	QIQIHAR	S
50756	HAILUN	S
50774	YICHUN	S
50774	YICHUN	W R

50788 FUJIN

S

<u>INDEX</u>	<u>STATION NAME</u>	<u>OBSERVATIONS</u>
50915	ULIASTAI	S
50949	QIAN GORLOS	S
50953	HARBIN	S
50953	HARBIN	W R
50963	TONGHE	S
50978	JIXI	S
51076	ALTAY	S
51076	ALTAY	W R
51087	FUYUN	S
51133	TACHENG	S
51156	HOBOKSAR	S
51243	KARAMAY	S
51288	BAYTIK SHAN	S
51334	JINGHE	S
51431	YINING	S
51431	YINING	W R
51463	WU LU MU QI	S
51495	SHISANJIANFANG	S
51542	BAYANBULAK	S
51573	TURPAN	S
51644	KUQA	S
51644	KUQA	W R
51656	KORLA	S
51709	KASHI	S
51709	KASHI	W R
51716	BACHU	S
51730	ALAR	S
51747	TAZHONG	S
51765	TIKANLIK	S
51777	RUOQIANG	S
51777	RUOQIANG	W R
51811	SHACHE	S
51828	HOTAN	S
51828	HOTAN	W R
51839	MINFENG	W R
51886	MANGNAI	S
52203	HAMI	S
52203	HAMI	W R
52267	EJIN QI	S
52267	EJIN QI	W R
52323	MAZONG SHAN	S
52323	MAZONG SHAN	W R
52418	DUNHUANG	S
52418	DUNHUANG	W R
52495	BAYAN MOD	S
52533	JIUQUAN	S
52533	JIUQUAN	W R
52602	LENGHU	S
52652	ZHANGYE	S
52681	MINQIN	S
52681	MINQIN	W R
52713	DA-QAIDAM	S
52754	GANGCA	S
52818	GOLMUD	S
52818	GOLMUD	W R
52836	DULAN	S
52866	XINING	S
52866	XINING	W R
52889	LAN ZHOU	S

52889	LAN ZHOU	W R
53068	ERENHOT	S
53068	ERENHOT	W R
53083	NARAN BULAG	S
53149	MANDAL	S
53192	ABAG QI	S
53231	HAILS	S
53276	JURH	S
53336	HALIUT	S
53391	HUADE	S
53463	HOHHOT	S
53463	HOHHOT	W R
53502	JARTAI	S
53513	LINHE	S
53513	LINHE	W R
53529	OTOG QI	S
53543	DONGSHENG	S
53564	HEQU	S
53588	WUTAI SHAN	S
53614	YINCHUAN	S
53614	YINCHUAN	W R
53646	YULIN	S
53723	YANCHI	S
53772	TAIYUAN	S
53772	TAIYUAN	W R
53798	XINGTAI	S
53845	YAN AN	S
53845	YAN AN	W R
53915	PINGLIANG	S
53915	PINGLIANG	W R
53959	YUNCHENG	S
54012	XI UJIMQIN QI	S
54026	JARUD QI	S
54027	LINDONG	S
54094	MUDANJIANG	S
54102	XILIN HOT	S
54102	XILIN HOT	W R
54135	TONGLIAO	S
54161	CHANGCHUN	S
54161	CHANGCHUN	W R
54208	DUOLUN	S
54218	CHIFENG	S
54218	CHIFENG	W R
54236	ZHANGWU	S
54273	HUADIAN	S
54292	YANJI	S
54292	YANJI	W R
54337	JIN ZHOU	W R
54337	JINZHOU	S
54342	SHENYANG	S
54342	SHENYANG	W R
54374	LINJIANG	S
54374	LINJIANG	W R
54377	JI'AN	S
54401	ZHANGJIAKOU	S
54423	CHENGDE	S
54471	YINGKOU	S
54497	DAN DONG	W R
54497	DANDONG	S
54511	BEIJING	S
54511	BEIJING	W R
54539	LETING	S

54618	POTOU	S
54662	DALIAN	S
54662	DALIAN	W R
54753	LONGKOU	S
54776	CHENGSHANTOU	S
54823	JINAN	S
54823	JINAN	W R
54843	WEIFANG	S
54857	QINGDAO	S
54857	QINGDAO	W R
54909	DINGTAO	S
55228	SHIQUANHE	S
55279	BAINGOIN	S
55299	NAGQU	S
55299	NAGQU	W R
55472	XAINZA	S
55578	XIGAZE	S
55591	LHASA	S
55591	LHASA	W R
55664	TINGRI	S
55696	LHUNZE	S
55773	PAGRI	S
56004	TUOTUOHE	S
56018	ZADOI	S
56021	QUMARLEB	S
56029	YUSHU	S
56029	YUSHU	W R
56033	MADOI	S
56046	DARLAG	S
56079	RUO'ERGAI	S
56080	HEZUO	S
56080	HEZUO	W R
56096	WUDU	S
56106	SOG XIAN	S
56116	DENGQEN	S
56137	QAMDO	S
56137	QAMDO	W R
56146	GARZE	W R
56152	SERTAR	S
56172	BARKAM	S
56182	SONGPAN	S
56247	BATANG	S
56294	CHENGDU	S
56294	CHENGDU	W R
56312	NYINGCHI	S
56444	DEQEN	S
56462	JIULONG	S
56492	YIBIN	S
56571	XICHANG	S
56571	XICHANG	W R
56651	LIJING	S
56691	WEINING	S
56691	WEINING	W R
56739	TENGCHONG	S
56739	TENGCHONG	W R
56778	KUNMING	S
56778	KUNMING	W R
56951	LINCANG	S
56964	SIMAO	S
56964	SIMAO	W R
56969	MENGLA	S
56985	MENGZI	S

56985	MENGZI	W R
57036	XI'AN	S
57036	XI'AN	W R
57067	LUSHI	S
57083	ZHENGZHOU	S
57083	ZHENGZHOU	W R
57127	HANZHONG	S
57127	HANZHONG	W R
57178	NANYANG	S
57245	ANKANG	S
57265	GUANGHUA	S
57297	XINYANG	S
57328	DA XIAN	S
57411	NANCHONG	S
57447	ENSHI	S
57447	ENSHI	W R
57461	YICHANG	S
57461	YICHANG	W R
57494	WUHAN	S
57494	WUHAN	W R
57516	CHONGQING	S
57516	CHONGQING	W R
57633	YOUYANG	S
57662	CHANGDE	S
57679	CHANGSHA	W R
57687	CHANGSHA	S
57745	ZHIJIANG	S
57749	HUAIHUA	W R
57799	JI'AN	S
57816	GUIYANG	S
57816	GUIYANG	W R
57866	LINGLING	S
57902	XINGREN	S
57957	GUILIN	S
57957	GUILIN	W R
57972	CHENZHOU	S
57972	CHENZHOU	W R
57993	GANZHOU	S
57993	GANZHOU	W R
58027	XUZHOU	S
58027	XUZHOU	W R
58040	GANYU	S
58102	BOXIAN	S
58144	QINGJIANG	S
58150	SHEYANG	S
58150	SHEYANG	W R
58203	FUYANG	S
58203	FUYANG	W R
58221	BENGBU	S
58238	NANJING	S
58238	NANJING	W R
58251	DONGTAI	S
58265	LUSI	S
58314	HUOSHAN	S
58362	SHANGHAI	S
58362	SHANGHAI	W R
58424	ANQING	S
58424	ANQING	W R
58457	HANGZHOU	S
58457	HANGZHOU	W R
58472	SHENGSI	S
58477	DINGHAI	S

58527	JINGDEZHEN	S
58606	NANCHANG	S
58606	NANCHANG	W R
58633	QU XIAN	S
58633	QU XIAN	W R
58659	WENZHOU	S
58665	HONGJIA	W R
58666	DACHEN DAO	S
58725	SHAOWU	S
58725	SHAOWU	W R
58847	FUZHOU	S
58847	FUZHOU	W R
58921	YONG'AN	S
58968	TAIBEI	S
58968	TAIBEI	W R
58974	PENGJIA YU	S
59007	GUANGNAN	S
59023	HECHI	S
59082	SHAOGUAN	S
59117	MEI XIAN	S
59134	XIAMEN	S
59134	XIAMEN	W R
59211	BAISE	S
59211	BAISE	W R
59265	WUZHOU	S
59265	WUZHOU	W R
59280	QING YUAN	W R
59287	GUANGZHOU	S
59293	HEYUAN	S
59316	SHANTOU	S
59316	SHANTOU	W R
59358	TAINAN	S
59417	LONGZHOU	S
59431	NANNING	S
59431	NANNING	W R
59501	SHANWEI	S
59559	HENGCHUN	S
59644	BEIHAI	S
59663	YANGJIANG	S
59758	HAIKOU	S
59758	HAIKOU	W R
59792	DONGSHA DAO	S
59838	DONGFANG	S
59948	YAXIAN	S
59981	XISHA DAO	S
59981	XISHA DAO	W R
59985	SANHU DAO	S
59995	YONGSHUJIAO	S
59997	NANSHA DAO	S

**DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA**

47003	SENBONG	S
47005	SAMJIYON	S
47008	CHONGJIN	S
47014	CHUNGGANG	S
47016	HYESAN	S
47020	KANGGYE	S
47022	PUNGSAN	S
47025	KIMCHAEK	S
47028	SUPUNG	S
47031	CHANGJIN	S
47035	SINUJU	S

47037	KUSONG	S
47039	HUICHON	S
47041	HAMHEUNG	S
47041	HAMHEUNG	W R
47046	SINPO	S
47050	ANJU	S
47052	YANGDOK	S
47055	WONSAN	S
47058	PYONGYANG	S
47058	PYONGYANG	W R
47060	NAMPO	S
47061	CHANGJON	S
47065	SARIWON	S
47067	SINGYE	S
47068	RYONGYON	S
47069	HAEJU	S
47070	KAESONG	S
47075	PYONGGANG	S

**HONG KONG, CHINA**

45004	KOWLOON	W R
45007	HONG KONG INTERNATIONAL AIRPORT	S

**INDIA**

42027	SRINAGAR	S
42027	SRINAGAR	W R
42071	AMRITSAR	S
42101	PATIALA	S
42101	PATIALA	W R
42111	DEHRADUN	S
42131	HISSAR	S
42165	BIKANER	S
42182	NEW DELHI/SAFDARJUNG	S
42182	NEW DELHI/SAFDARJUNG	W R
42189	BAREILLY	S
42260	AGRA	S
42309	NORTH LAKHIMPUR	S
42314	DIBRUGARH /MOHANBARI	S
42314	DIBRUGARH /MOHANBARI	W R
42328	JAISALMER	S
42339	JODHPUR	S
42339	JODHPUR	W R
42348	JAIPUR / SANGANER	S
42361	GWALIOR	S
42361	GWALIOR	W R
42369	LUCKNOW/AMAUSI	S
42369	LUCKNOW/AMAUSI	W R
42379	GORAKHPUR	S
42379	GORAKHPUR	W R
42397	SILIGURI	W R
42398	SILIGURI	S
42410	GAUHATI	S
42410	GAUHATI	W R
42415	TEZPUR	S
42452	KOTA AERODROME	S
42452	KOTA AERODROME	W
42475	ALLAHABAD/BAMHRAULI	S
42492	PATNA	S
42492	PATNA	W R
42559	GUNA	S
42571	SATNA	S



42587	DALTONGANJ	S
42591	GAYA	S
42591	GAYA	W
42623	IMPHAL	S
42623	IMPHAL	W
42634	BHUJ-RUDRAMATA	S
42634	BHUJ-RUDRAMATA	W
42647	AHMADABAD	S
42647	AHMADABAD	W R
42667	BHOPAL/BAIRAGARH	S
42667	BHOPAL/BAIRAGARH	W R
42675	JABALPUR	S
42675	JABALPUR	W
42701	M.O. RANCHI	S
42701	M.O. RANCHI	W R
42706	BANKURA	S
42724	AGARTALA	S
42724	AGARTALA	W R
42734	JAMNAGAR	W
42737	RAJKOT	S
42874	PBO RAIPUR	W R
42886	JHARSUGUDA	S
42895	BALASORE	S
42909	VERAVAL	S
42909	VERAVAL	W
42920	NASIK OZAR	S
42934	AKOLA	S
42971	BHUBANESWAR	S
42971	BHUBANESWAR	W R
42977	SANDHEADS	S
43003	BOMBAY / SANTACRUZ	S
43003	BOMBAY / SANTACRUZ	W R
43014	AURANGABAD CHIKALTHAN AERODROME	S
43014	AURANGABAD CHIKALTHAN AERODROME	W R
43041	JAGDALPUR	S
43041	JAGDALPUR	W R
43063	POONA	S
43086	RAMGUNDAM	S
43110	RATNAGIRI	S
43117	SHOLAPUR	S
43128	HYDERABAD AIRPORT	S
43128	HYDERABAD AIRPORT	W R
43150	CWC VISHAKHAPATNAM/ WALT AIR	S
43150	CWC VISHAKHAPATNAM/ WALT AIR	W R
43185	MACHILIPATNAM	S
43185	MACHILIPATNAM	W R
43189	KAKINADA	S
43192	GOA/PANJIM	S
43198	BELGAUM/SAMBRA	S
43201	GADAG	S
43213	KURNOOL	S
43226	HONAVAR	S
43233	CHITRADURGA	S
43237	PBO ANANTAPUR	S
43245	NELLORE	S
43279	MADRAS/MINAMBAKKAM	S
43284	MANGALORE/BAJPE	S
43285	MANGALORE/PANAMBUR	W R
43295	BANGALORE	S
43295	BANGALORE	W R

43311	M.O. AMINI	S
43314	KOZHIKODE	S
43321	COIMBATORE/PEELAMEDU	S
43329	CUDDALORE	S
43333	PORT BLAIR	S
43333	PORT BLAIR	W R
43344	TIRUCHCHIRAPALLI	S
43346	KARAIKAL	S
43346	KARAIKAL	W R
43353	COCHIN/WILLINGDON	S
43369	MINICOY	S
43369	MINICOY	W R
43371	THIRUVANANTHAPURAM	S
43371	THIRUVANANTHAPURAM	W R

**IRAN, ISLAMIC REPUBLIC OF**

40700	PARS ABAD MOGHAN	S
40701	MAKKO	S
40703	KHOY	S
40704	AHAR	S
40706	TABRIZ	S
40706	TABRIZ	W R
40708	ARDEBIL	S
40710	SARAB	S
40712	ORUMIEH	S
40713	MARAGHEH	S
40716	MEYANEH	S
40718	ANZALI	S
40719	RASHT	S
40721	MARAVE-TAPPEH	S
40723	BOJNOURD	S
40726	MOHABAD	S
40727	SAGHEZ	S
40729	ZANJAN	S
40731	GHAZVIN	S
40732	RAMSAR	S
40734	NOSHAHR	S
40736	BABULSAR	S
40737	GHARAKHIL	S
40738	GORGAN	S
40739	SHAHRUD	S
40740	GHUCHAN	S
40741	SARAKHS	S
40743	SABZEVAR	S
40745	MASHHAD	S
40745	MASHHAD	W R
40747	SANANDAJ	S
40754	TEHRAN-MEHRABAD	S
40754	TEHRAN-MEHRABAD	W R
40757	SEMNAN	S
40762	TORBAT-HEYDARIEH	S
40763	KASHMAR	S
40766	KERMANSHAH	S
40766	KERMANSHAH	W R
40768	HAMEDAN	S
40769	ARAK	S
40780	ILAM	S
40782	KHORRAM ABAD	S
40783	ALI-GOODARZ	S
40785	KASHAN	S
40789	KHOR	S
40791	TABAS	S

40792	FERDOUS	S
40794	SAFI-ABAD DEZFUL	S
40798	SHAHRE-KORD	S
40800	ESFAHAN	S
40800	ESFAHAN	W R
40809	BIRJAND	S
40809	BIRJAND	W R
40811	AHWAZ	S
40812	MASJED-SOLEYMAN	S
40818	ABADEH	S
40821	YAZD	S
40827	NEHBANDAN	S
40829	ZABOL	S
40831	ABADAN	S
40833	OMIDIEH	S
40835	GACH SARAN DU GUNBADAN	S
40836	YASOGE	S
40841	KERMAN	S
40841	KERMAN	W R
40848	SHIRAZ	S
40848	SHIRAZ	W R
40851	SIRJAN	S
40853	BAFT	S
40854	BAM	S
40856	ZAHEDAN	S
40856	ZAHEDAN	W
40857	BUSHEHR	S
40859	FASA	S
40872	BANDAR DAYYER	S
40875	BANDARABBASS	S
40875	BANDARABBASS	W R
40877	KAHNUJ	S
40878	SARAVAN	S
40879	IRANSHAHR	S
40882	KISH ISLAND	S
40883	BANDAR LENGEH	S
40889	SIRI ISLAND	S
40890	ABU MUSA	S
40893	JASK	S
40897	KONARAK	S
40898	CHAHBAHAR	S

**IRAQ**

40608	MOSUL	S
40608	MOSUL	W R
40621	KIRKUK	S
40634	HADITHA	S
40637	KANAQIN	S
40642	RUTBAH	S
40650	BAGHDAD	W R
40658	NUKAIB	S
40665	KUT-AL-HAI	S
40672	DIWANIYA	S
40676	NASIRIYA	S
40676	NASIRIYA	W
40684	AL-SALMAN	S
40686	BUSSAYA	S
40689	BASRAH	W

**JAPAN**

47401	WAKKANAI	S
47401	WAKKANAI	W R

47407	ASAHIKAWA	S
47409	ABASHIRI	S
47412	SAPPORO	S
47412	SAPPORO	W R
47418	KUSHIRO	S
47420	NEMURO	S
47420	NEMURO	W R
47421	SUTTSU	S
47426	URAKAWA	S
47430	HAKODATE	S
47570	WAKAMATSU	S
47575	AOMORI	S
47582	AKITA	W R
47582	AKITA	S
47585	MIYAKO	S
47590	SENDAI	S
47590	SENDAI	W R
47598	ONAHAMA	S
47600	WAJIMA	S
47600	WAJIMA	W R
47602	AIKAWA	S
47605	KANAZAWA	S
47618	MATSUMOTO	S
47624	MAEBASHI	S
47636	NAGOYA	S
47646	TATENO	W R
47648	CHOSHI	S
47655	OMAEZAKI	S
47662	TOKYO	S
47663	OWASE	S
47675	OSHIMA	S
47678	HACHIJOJIMA	S
47678	HACHIJOJIMA/OMURE	W R
47740	SAIGO	S
47741	MATSUE	S
47744	YONAGO	W R
47746	TOTTORI	S
47750	MAIZURU	S
47755	HAMADA	S
47772	OSAKA	S
47778	SHIONOMISAKI	S
47778	SHIONOMISAKI	W R
47800	IZUHARA	S
47807	FUKUOKA	S
47807	FUKUOKA	W R
47815	OITA	S
47817	NAGASAKI	S
47827	KAGOSHIMA	S
47827	KAGOSHIMA/YOSHINO	W R
47830	MIYAZAKI	S
47837	TANEGASHIMA	S
47843	FUKUE	S
47887	MATSUYAMA	S
47891	TAKAMATSU	S
47898	SHIMIZU	S
47899	MUROTOMISAKI	S
47909	NAZE/FUNCHATOGE	S
47909	NAZE/FUNCHATOGE	W R
47918	ISHIGAKIJIMA	S
47918	ISHIGAKIJIMA	W R
47927	MIYAKOJIMA	S
47936	NAHA	S

47936	NAHA	W R
47945	MINAMIDAITOJIMA	S
47945	MINAMIDAITOJIMA	W R
47971	CHICHIJIMA	S
47971	CHICHIJIMA	W R
47991	MINAMITORISHIMA	S
47991	MINAMITORISHIMA	W R

**KAZAKHSTAN (IN ASIA)**

28679	PETROPAVLOVSK	S
28766	BLACOVESCHENKA	S
28867	URICKY	S
28879	KOKSHETAY	S
28952	KUSTANAI	S
28952	KUSTANAI	W R
28966	RUZAEVKA	S
28978	BALKASHINO	S
28984	SHCHUCHINSK	S
29807	IRTYSHSK	S
35067	ESIL'	S
35078	ATBASAR	S
35085	AKKOL'	S
35108	URALSK	S
35173	ZHALTYR	S
35188	ASTANA	S
35217	DZHAMBEJTY	S
35229	AKTJUBINSK	S
35229	AKTJUBINSK	W R
35302	CHAPAEVO	S
35376	BERLIK	S
35394	KARAGANDA	S
35394	KARAGANDA	W R
35406	TAIPAK	S
35416	UIL	S
35426	TEMIR	S
35497	ZHARYK	S
35532	MUGODZARSKAJA	S
35686	ALGAZY ISLAND	S
35699	BEKTAU-ATA	S
35671	ZHEZKAZGAN	S
35671	ZHEZKAZGAN	W R
35700	ATYRAN	S
35700	ATYRAN	W R
35746	ARALSKOE MORE	S
35796	BALHASH	S
35849	KAZALINSK	S
35925	SAM	S
35953	DZHUSALY	S
35969	ZLIKHA	S
36003	PAVLODAR	S
36003	PAVLODAR	W R
36152	SEMIJARKA	S
36177	SEMIPALATINSK	S
36208	LENINOGORSK	S
36397	ZHANGIZTOBE	S
36428	BOL'SHE NARYMSKOE	S
36535	KOKPEKTY	S
36639	URDZHAR	S
36821	BAKANAS	S
36859	ZHARKENT	S

36864	OTAR	S	
36870	ALMATY	S	
36870	ALMATY	W R	
38001	FORT SHEVCHENKO	S	
38062	KYZYLORDA	S	
38069	CIILI	S	
38196	ACHISAJ	S	
38198	TURKESTAN	S	
38222	TOLE BI	S	
38232	AKKUDUK	S	
38328	SHYMKENT	S	
38334	AUL TURARA RYSKULOVA	S	
38341	ZHAMBYL	S	
38341	ZHAMBYL	W R	
38343	KOOLAN	S	
38439	CARDARA	S	

**KUWAIT**

40570	AL-SALMI	S	
40582	KUWAIT INTERNATIONAL AIRPORT	S	
40582	KUWAIT INTERNATIONAL AIRPORT	W R	

**KYRGYZSTAN**

36911	TOKMAK	S	
36974	NARYN	S	
36982	TIAN-SHAN'	S	
38345	TALAS	S	
38353	BISHKEK	S	
38616	KARA-SUU	S	

**LAO PEOPLE'S DEMOCRATIC REPUBLIC**

48924	LUANG NAMTHA (M.SING)	S	
48926	HOU EI-SAI *	S	
48927	VIENGSAY	S	
48930	LUANG-PRABANG	S	
48935	PLAINE DES JARRES (XIENGKHOANG)	S	
48940	VIENTIANE	S	
48940	VIENTIANE	W R	
48947	SAVANNAKHET	S	
48952	SARAVANE	S	
48955	PAKSE	S	S
48957	ATTOPEU	S	

**MACAO, CHINA**

45011	TAIPA GRANDE	S	
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**MALDIVES**

43533	KANIMAADHOO	S	
43555	MALE	S	
43555	MALE	W	
43577	KADHDHOO	S	
43599	GAN	S	
43599	GAN	W	

**MONGOLIA**

44203	RINCHINLHUMBE	S	
44207	HATGAL	S	
44212	ULAANGOM	S	
44212	ULAANGOM	W R	
44213	BARUUNTURUUN	S	
44214	ULGI	S	

44215	OMNO-GOBI	S
44218	HOVD	S
44230	TARIALAN	S
44231	MUREN	S
44231	MUREN	W R
44232	HUTAG	S
44239	BULGAN	S
44241	BARUUNHARAA	S
44256	DASHBALBAR	S
44259	CHOIBALSAN	S
44259	CHOIBALSAN	W R
44265	BAITAG	S
44272	ULIASTAI	S
44277	ALTAI	S
44277	ALTAI	W R
44282	TSETSERLEG	S
44284	GALUUT	S
44285	HUJIRT	S
44287	BAYANHONGOR	S
44288	ARVAIHEER	S
44288	ARVAIHEER	W R
44292	ULAANBAATAR	S
44292	ULAANBAATAR	W R
44294	MAANTI	S
44298	CHOIR	S
44302	BAYAN-OVOO	S
44304	UNDERKHAAN	S
44305	BARUUN-URT	S
44313	KHALKH-GOL	S
44314	MATAD	S
44336	SAIKHAN-OVOO	S
44341	MANDALGOBI	S
44347	TSOGT-OVOO	S
44352	BAYANDELGER	S
44373	DALANZADGAD	S

**MYANMAR**

48001	PUTAO	S
48004	HKAMTI	S
48008	MYITKYINA	S
48008	MYITKYINA	W R
48010	HOMALIN	S
48018	KATHA	S
48019	BHAMO	S
48024	KALEMYO	W
48025	KALEWA	S
48035	LASHIO	S
48037	MONYWA	S
48042	MANDALAY	S
48045	MINDAT	S
48053	MEIKTILA	S
48053	MEIKTILA	W R
48057	TAUNGGYI	S
48060	KENGTUNG	S
48060	KENGTUNG	W
48062	SITTWE	S
48062	SITTWE	W R
48064	MINBU	S
48071	KYAUKPYU	S
48077	PROME	S
48078	TOUNGOO	S
48080	SANDOWAY	S

48094	PATHEIN		S
48094	PATHEIN		W
48096	MINGALADON		S
48097	YANGON		W R
48099	HPA-AN		S
48107	YE		S
48108	DAWEI	S	
48109	COCO ISLAND		S
48109	COCO ISLAND		W
48110	MERGUI		S

**NEPAL**

44416	SURKHET		S
44424	JUMLA		S
44438	BHAIRAWA AIRPORT		S
44454	KATHMANDU AIRPORT		S
44454	KATHMANDU AIRPORT		W R
44477	DHANKUTA		S
44478	BIRATNAGAR AIRPORT		S

**OMAN**

41240	KHASAB		S
41242	DIBA *		S
41244	BURAIMI		S
41246	SOHAR MAJIS		S
41253	RUSTAQ		S
41254	SAIQ		S
41255	NIZWA *		S
41256	SEEB, INT'L AIRPORT		S
41256	SEEB, INT'L AIRPORT		W R
41257	SAMAIL		S
41258	MINA SULTAN QABOOS		S
41262	FAHUD		S
41263	BAHLA		S
41264	ADAM		S
41265	IBRA		S
41267	QALHAT		S
41268	SUR		S
41275	QARN ALAM		S
41288	MASIRAH		S
41304	MARMUL		S
41312	MINA SALALAH		S
41314	THUMRAIT		S
41315	QAIROON HAIRITI		S
41316	SALALAH		S
41316	SALALAH		W R

**PAKISTAN**

41504	GUPIS		S
41506	CHITRAL		S
41508	DIR		S
41515	DROSH		S
41516	GILGIT		S
41517	SKARDU		S
41518	BUNJI		S
41519	CHILLAS		S
41520	ASTORE		S
41523	SAIDU SHARIF		S
41530	PESHAWAR		S
41530	PESHAWAR		W R



41532	MUZAFFAR ABAD	S
41533	RISALPUR	S
41535	KAKUL	S
41536	BALAKOT	S
41560	PARACHINAR	S
41564	KOHAT	S
41565	CHERAT	S
41568	MINHAS	S
41570	DHAMIAL ARMY	S
41571	ISLAMABAD AIRPORT	S
41573	MURREE	S
41577	ISLAMABAD SRRC	S
41592	MIANWALI	S
41594	SARGODHA	S
41594	SARGODHA	W R
41598	JHELUM	S
41600	SIALKOT	S
41620	ZHOB	S
41624	DERA ISMAIL KHAN	S
41630	FAISAL ABAD	S
41640	LAHORE CITY	W R
41641	LAHORE AIRPORT	S
41660	QUETTA AIRPORT	S
41661	QUETTA (SHEIKH MANDA)	W R
41672	RAFIQUI	S
41675	MULTAN	S
41675	MULTAN	W R
41678	BAHAWALNAGAR	S
41685	BAR KHAN	S
41700	BAHAWALPUR	S
41710	NOKKUNDI	S
41712	DAL BANDIN	S
41715	JACOBABAD	S
41715	JACOBABAD	W
41718	KHANPUR	S
41739	PANJGUR	S
41739	PANJGUR	W
41744	KHUZDAR	S
41749	NAWABSHAH	S
41756	JIWANI	S
41756	JIWANI	W
41768	CHHOR	S
41768	CHHOR	W
41780	KARACHI AIRPORT	S
41780	KARACHI AIRPORT	W R

**QATAR**

41170	DOHA INTERNATIONAL AIRPORT	S
41170	DOHA INTERNATIONAL AIRPORT	W R

**REPUBLIC OF KOREA**

47101	CHUNCHEON	S
47105	GANGNEUNG	S
47108	SEOUL	S
47115	ULLEUNGDO	S
47122	OSAN AB	W R
47133	DAEJEON	S
47138	POHANG	S
47158	GWANGJU AB	W R
47159	BUSAN	S
47165	MOKPO	S
47168	YEOSU	S

47184	JEJU	S
47185	JEJU UPPER/RADAR	W R
<b>RUSSIAN FEDERATION (IN ASIA)</b>		
20046	POLARGMO IM. E.T. KRENKELJA	S
20046	POLARGMO IM. E.T. KRENKELJA	W R
20069	OSTROV VIZE	S
20087	OSTROV GOLOMJANNYJ	S
20292	GMO IM.E.K. FEDOROVA	S
20292	GMO IM.E.K. FEDOROVA	W R
20667	IM. M.V. POPOVA	S
20674	OSTROV DIKSON	S
20674	OSTROV DIKSON	W R
20744	MALYE KARMAKULY	W R
20744	MALYE KARMAKULY	S
20891	HATANGA	S
21432	OSTROV KOTEL'NYJ	S
21432	OSTROV KOTEL'NYJ	W R
21647	MYS SHALAUROVA	S
21647	MYS SHALAUROVA	W R
21802	SASKYLAH	S
21824	TIKSI	S
21824	TIKSI	W R
21908	DZALINDA	S
21921	KJUSJUR	S
21931	JUBILEJNAJA	S
21946	CHOKURDAH	S
21946	CHOKURDAH	W R
21965	OSTROV CHETYREHSTOLBOVOY	S
21982	OSTROV VRANGELJA	S
21982	OSTROV VRANGELJA	W R
23022	AMDERMA	S
23022	AMDERMA	W R
23032	MARESALE	S
23074	DUDINKA	S
23205	NAR'JAN-MAR	S
23205	NAR'JAN-MAR	W R
23219	HOSEDA-HARD	S
23256	TAZOVSKOE	S
23274	IGARKA	S
23330	SALEHARD	S
23330	SALEHARD	W R
23331	RA-IZ	S
23383	AGATA	S
23405	UST'-CIL'MA	S
23412	UST'-USA	S
23418	PECHORA	S
23418	PECHORA	W R
23426	MUZI	S
23472	TURUHANSK	S
23472	TURUHANSK	W R
23552	TARKO-SALE	S
23552	TARKO-SALE	W R
23606	UHTA	S
23625	SOSVA	S
23631	BEREZOVO	S
23678	VERHNEIMBATSK	S
23711	TROICKO-PECHERSKOE	S
23724	NJAKSIMVOL'	S
23734	OKTJABR'SKOE	S
23803	UST'-KULOM	S
23804	SYKTYVKAR	S

23804	SYKTYVKAR	W R	
23849	SURGUT	S	
23884	BOR	S	
23884	BOR	W R	
23891	BAJKIT	S	
23909	GAJNY	S	
23914	CHERDYN'	S	
23921	IVDEL'	S	
23921	IVDEL'	W R	
23933	HANTY-MANSIJSK	S	
23933	HANTY-MANSIJSK	W R	
23955	ALEKSANDROVSKOE	S	
23955	ALEKSANDROVSKOE	W R	
23966	VANZIL'-KYNAK	S	
23973	VOROGOVO	S	
23975	SYM	S	
23987	JARCEVO	S	
24105	ESSEJ	S	
24125	OLENEK	S	
24125	OLENEK	W R	
24143	DZARDZAN	S	
24266	VERHOJANSK	W R	
24266	VERHOJANSK	S	
24329	SELAGONCY	S	
24343	ZHIGANSK	S	
24343	ZHIGANSK	W R	
24382	UST'-MOMA	S	
24507	TURA	S	
24507	TURA	W R	
24639	NJURBA	S	
24641	VILJUJSK	S	
24641	VILJUJSK	W R	
24652	SANGARY	S	
24656	BATAMAJ	S	
24671	TOMPO	S	
24688	OJMJAKON	S	
24688	OJMJAKON	W R	
24724	CHERNISHEVSKIJ	S	
24726	MIRNVY	W R	
24738	SUNTAR	S	
24768	CURAPCA	S	
24817	ERBOGACEN	S	
24817	ERBOGACEN	W R	
24908	VANAVARA	S	
24908	VANAVARA	W R	
24923	LENSK	S	
24944	OLEKMINSK	S	
24944	OLEKMINSK	W R	
24951	ISIT'	S	
24959	JAKUTSK	S	
24959	JAKUTSK	W R	
24962	AMGA	S	
24966	UST'-MAJA	S	
24988	ARKA	S	
25123	CHERSKIJ	S	
25173	MYS SHMIDTA		S
25173	MYS SHMIDTA		W R
25248	ILIRNEJ	S	
25325	UST'-OLOJ	S	
25378	EGVEKINOT	S	
25399	MYS UELEN	S	
25399	MYS UELEN	W R	

25400	ZYRJANKA	S
25400	ZYRJANKA	W R
25428	OMOLON	S
25428	OMOLON	W R
25538	VERHNEE PENZINO	S
25551	MARKOVO	S
25563	ANADYR'	S
25563	ANADYR'	W R
25621	KEDON	S
25703	SEJMCHAN	S
25703	SEJMCHAN	W R
25744	KAMENSKOE	S
25913	MAGADAN	S
25913	MAGADAN	W R
25954	KORF	S
25954	KORF	W R
25956	APUKA	S
28009	KIRS	S
28044	SEROV	S
28049	GARI	S
28064	LEUSI	S
28076	DEM'JANSKOE	S
28116	KUDYMKAR	S
28144	VERHOTUR'E	S
28214	GLAZOV	S
28225	PERM'	W R
28240	NIZHNYJ TAGIL	S
28255	TURINSK	S
28275	TOBOL'SK	S
28275	TOBOL'SK	W R
28319	NOZOVKA	S
28321	OHANSK	S
28334	SAMARY	S
28367	TJUMEN'	S
28382	UST'-ISIM	S
28411	IZHEVSK	S
28419	JANAUL	S
28434	KRASNOUFIMSK	S
28440	EKATERINBURG	S
28445	VERHNEE DUBROVO	W R
28481	VIKULOVO	S
28491	BOL'SIE UKI	S
28493	TARA	S
28506	ELABUGA	S
28552	SADRINSK	S
28573	ISIM	S
28593	BOL'SHERECH'E	S
28621	BIRSK	S
28642	CHELJABINSK-BALANDINO	S
28661	KURGAN	S
28661	KURGAN	W R
28666	MAKUSINO	S
28698	OMSK	S
28698	OMSK	W R
28711	BUGUL'MA	S
28722	UFA	S
28722	UFA	W R
28748	TROIZK	S
28786	POLTAVKA	S
28797	ODESSKOE	S
28799	CERLAK	S
28807	SAMARA (SNYSLJAEVKA)	S

28825	STERLITAMAK	S
28838	MAGNITOGORSK	S
29023	NAPAS	S
29111	SREDNY VASJUGAN	S
29122	KARGASOK	S
29209	MAJSK	S
29231	KOLPASEVO	S
29231	KOLPASEVO	W R
29253	LOSINOBORSKOE	S
29263	ENISEJSK	S
29263	ENISEJSK	W R
29282	BOGUCANY	S
29282	BOGUCANY	W R
29313	PUDINO	S
29328	BAKCHAR	S
29348	PERVOMAJSKOE	S
29405	KYSTOVKA	S
29418	SEVERNOE	S
29430	TOMSK	S
29471	BOL'SHAJA MURTA	S
29481	DZERZHINSKOE	S
29524	KRESCHENKA	S
29551	MARIINSK	S
29553	BOGOTOL	S
29562	KEMCHUG	S
29570	KRASNOJARSK OPYTNOE POLE	S
29572	EMEL'JANOVO	W R
29581	KANSK	S
29594	TAJSHET	S
29602	CHANY	S
29605	TATARSK	S
29612	BARABINSK	S
29612	BARABINSK	W R
29631	KOLYVAN'	S
29634	NOVOSIBIRSK	S
29634	NOVOSIBIRSK	W R
29636	TOGUCHIN	S
29653	UZUR	S
29654	CENTRAL'NYJ RUDNIK	S
29675	KOLBA	S
29676	AGINSKOE	S
29698	NIZHNEUDINSK	S
29698	NIZHNEUDINSK	W R
29706	KUPINO	S
29712	ZDVINSK	S
29724	KOCHKI	S
29726	ORDYNSKOE	S
29736	MASLJANINO	S
29759	KOMMUNAR	S
29766	IDRINSKOE	S
29789	VERHNJAJA GUTARA	S
29814	KARASUK	S
29827	BAEVO	S
29838	BARNAUL	S
29839	BARNAUL	W R
29846	NOVOKUZNETSK	S
29862	HAKASSKAJA	W R
29864	UYBAT	S
29869	ERMAKOVSKOE	S
29923	REBRIHA	S
29937	ALEJSKAJA	S
29939	BIJSK ZONAL'NAJA	S

29956	TASTYP	S
29998	ORLIK	S
30054	VITIM	S
30054	VITIM	W R
30117	UST'-ILIMSK	S
30230	KIRENSK	S
30230	KIRENSK	W R
30253	BODAJBO	S
30309	BRATSK	S
30309	BRATSK	W R
30328	ORLINGA	S
30337	KAZACHINSK	S
30372	CHARA	S
30372	CHARA	W R
30385	UST'-NJUKZHA	S
30393	CUL'MAN	S
30405	TANGUJ	S
30433	NIZHNEANGARSK	S
30455	UAKIT	S
30469	KALAKAN	S
30493	NAGORNYJ	S
30499	TYNDA	S
30504	TULUN	S
30521	ZHIGALOVO	S
30521	ZHIGALOVO	W R
30542	TASSA	S
30549	KARAFTIT	S
30554	BAGDARIN	S
30554	BAGDARIN	W R
30603	ZIMA	S
30612	BALAGANSK	S
30622	KACUG	S
30627	BAJANDAJ	S
30635	UST'-BARGUZIN	S
30635	UST'-BARGUZIN	W R
30650	ROMANOVKA	S
30664	TUNGOKOCEN	S
30669	ZILOVO	S
30673	MOGOCA	S
30673	MOGOCA	W R
30683	EROFEJ PAVLOVIC	S
30692	SKOVORODINO	S
30692	SKOVORODINO	W R
30695	DZALINDA	S
30703	INGA	S
30710	IRKUTSK	S
30715	ANGARSK	W R
30731	GORJACINSK	S
30739	HORINSK	S
30741	ZAMOKTA	S
30745	SOSNOVO-OZERSKOE	S
30758	CHITA	S
30758	CHITA	W R
30764	USUGLI	S
30781	URJUPINO	S
30802	MONDY	S
30823	ULAN-UDE	S
30829	NOVOSELENGINSK	S
30838	PETROVSKIJ ZAVOD	S
30844	HILOK	S
30846	ULETY	S
30859	AGINSKOE	S

30862	SHILKA	S	
30879	NERCHINSKIJ ZAVOD	S	
30925	KJAHTA	S	
30935	KRASNYJ CHIKOJ	S	
30935	KRASNYJ CHIKOJ	W R	
30949	KYRA	S	
30957	AKSA	S	
30965	BORZJA	S	
30965	BORZJA	W R	
30967	SOLOV'EVSK	S	
30975	PRIARGUNSK	S	
31004	ALDAN	S	
31004	ALDAN	W R	
31054	UST'-JUDOMA	S	
31088	OHOTSK	S	
31088	OHOTSK	W R	
31123	CJUL'BJU	S	
31137	TOKO	S	
31168	AJAN	S	
31168	AJAN	W R	
31174	BOL'SOJ SANTAR	S	
31199	UNAHA	S	
31253	BOMNAK	S	
31263	LOKSAK	S	
31295	MAGDAGACI	S	
31300	ZEJA	S	
31300	ZEJA	W R	
31329	EKIMCHAN	S	
31329	EKIMCHAN	W R	
31348	BURUKAN	S	
31369	NIKOLAEVSK-NA-AMURE	S	
31369	NIKOLAEVSK-NA-AMURE	W R	
31371	CHERNJAEVO	S	
31388	NORSK	S	
31416	IM POLINY OSIPENKO		S
31418	VESELAJA GORKA	S	
31439	BOGORODSKOE	S	
31442	SIMANOVSK	S	
31445	SVOBODNYJ	S	
31459	VERHNJAJA TOM'	S	
31474	UST'-UMAL'TA	S	
31478	SOFIJSKIJ PRIISK	S	
31484	HULARIN	S	
31489	GORIN	S	
31510	BLAGOVESCENSK	S	
31510	BLAGOVESCENSK	W R	
31521	BRATOLJUBOVKA	S	
31527	ZAVITAJA	S	
31532	CEKUNDA	S	
31534	SEKTAGLI	S	
31538	SUTUR	S	
31587	POJARKOVO	S	
31594	ARHARA	S	
31632	KUR	S	
31655	TROICKOE	S	
31702	OBLUC'E	S	
31707	EKATERINO-NIKOL'SKOE	S	
31713	BIROBIDZHAN	S	
31725	SMIDOVICH	S	
31735	HABAROVSK	S	
31736	HABAROVSK	W R	
31754	TIVJAKU	S	

31801	GVASJUGI	S	
31825	AGZU	S	
31829	ZOLOTOJ	S	
31845	KRASNYJ JAR	S	
31866	SOSUNOVO	S	
31873	DAL'NERECHENSK	S	
31873	DAL'NERECHENSK	W R	
31878	KIROVSKIJ	S	
31909	TERNEJ	S	
31909	TERNEJ	W R	
31915	POGRANICHNYJ	S	
31921	ASTRAHANKA	S	
31959	RUDNAJA PRISTAN'	S	
31960	VLADIVOSTOK	S	
31969	POS'ET	S	
31977	VLADIVOSTOK (SAD GOROD)		W R
31981	ANUCINO	S	
31987	PARTIZANSK	S	
31989	PREOBRAZHENIE	S	
32027	POGIBI	S	
32053	NOGLIKI	S	
32061	ALEKSANDROVSK-SAHALINSKIJ	S	
32061	ALEKSANDROVSK- SAHALINSKIJ	W R	
32069	PIL'VO	S	
32076	POGRANICHNOE	S	
32098	PORONAJSK	S	
32121	ILYINSKIY	S	
32150	JUZHNO-SAHALINSK	S	
32150	JUZHNO-SAHALINSK	W R	
32165	JUZHNO-KURIL'SK	S	
32195	SIMUSIR	S	
32207	MATUA	S	
32215	SEVERO-KURIL'SK	S	
32215	SEVERO-KURIL'SK	W R	
32252	UST'-VOJAMPOLKA	S	
32389	KLJUCHI	S	
32389	KLJUCHI	W R	
32408	UST'-KAMCHATSK	S	
32411	ICA	S	
32509	SEMJACHIK	S	
32540	PETROPAVLOVSK-KAMCHATSKIJ	W R	
32583	PETROPAVLOVSK-KAMCHATSKIJ	S	
32594	OZERNAJA	S	
32618	NIKOL'SKOE	S	
32618	NIKOL'SKOE	W R	
35026	ZILAIR	S	
35121	ORENBURG	S	
35121	ORENBURG	W R	
36021	KLJUCI	S	
36022	VOLCIHA	S	
36034	RUBCOVSK	S	
36038	ZMEINOGORSK	S	
36058	CEMAL	S	
36061	TUROCAK	S	
36096	KYZYL	S	
36096	KYZYL	W R	
<b>SAUDI ARABIA</b>			
40356	TURAIF	S	
40357	ARAR	S	
40360	GURIAT	S	
40361	AL-JOUF	S	



40362	RAFHA	S
40369	HAQL	S
40373	AL-QAISUMAH	S
40373	AL-QAISUMAH	W R
40375	TABUK	S
40375	TABUK	W R
40377	HAFR AL-BATIN	S
40386	AL-HULAIFAH	S
40394	HAIL	S
40394	HAIL	W R
40400	AL-WEJH	S
40405	GASSIM	S
40416	DHAHRAN	S
40417	K.F.I.A. (KING FAHAD INT. AIRPORT) DAMMAM	W R
40420	AL-AHSA	S
40430	AL-MADINAH	S
40430	AL-MADINAH	W R
40432	UQLAT AL-SUQOR	S
40435	AL-DAWADAMI	S
40437	KING KHALED INT. AIRPORT	S
40437	KING KHALED INT. AIRPORT	W R
40438	RIYADH OBS. (O.A.P.)	S
40439	YENBO	S
41006	MUWAIH	S
41010	LAYLA	S
41014	OBAYLAH	S
41016	SHAWALAH	S
41024	JEDDAH (KING ABDUL AZIZ INT. AIRPORT)	S
41024	JEDDAH (KING ABDUL AZIZ INT. AIRPORT)	W R
41036	AL-TAIF	S
41061	WADI AL-DAWASSER AIRPORT	S
41080	AL-QUNFUDAH	S
41084	BISHA	S
41112	ABHA	S
41112	ABHA	W R
41114	KHAMIS MUSHAIT	S
41128	NAJRAN	S
41136	SHARORAH	S
41140	GIZAN	S

**SRI LANKA**

43415	VAVUNIYA	S
43418	TRINCOMALEE	S
43424	PUTTALAM	S
43436	BATTICALOA	S
43450	KATUNAYAKE	S
43466	COLOMBO	S
43473	NUWARA ELIYA	S
43495	GALLE	S
43497	HAMBANTOTA	S

**TAJIKISTAN**

38599	KHUDJAND	S
38609	ISFARA	S
38713	URA-TYUBE	S
38836	DUSHANBE	S
38836	DUSHANBE	W R
38933	KURGAN-TYUBE	S
38937	SHAARTUZ	S

38943	KULYAB	S	
38944	PARKHAR	S	
38947	PYANDJ	S	
38954	KHOROG	S	
38954	KHOROG	W R	

**THAILAND**

48300	MAE HONG SON	S	
48303	CHIANG RAI	S	
48325	MAE SARIANG		S
48327	CHIANG MAI	S	
48327	CHIANG MAI	W R	
48328	LAMPANG	S	
48330	PHRAE	S	
48331	NAN	S	
48351	UTTARADIT	S	
48353	LOEI	S	
48354	UDON THANI	S	
48354	UDON THANI	W	
48356	SAKON NAKHON	S	
48375	MAE SOT	S	
48376	TAK	S	
48377	BHUMIBOL DAM	S	
48378	PHITSANULOK	S	
48378	PHITSANULOK	W	
48379	PHETCHABUN	S	
48381	KHON KAEN	S	
48383	MUKDAHAN	S	
48400	NAKHON SAWAN	S	
48405	ROI ET	S	
48407	UBON RATCHATHANI	S	
48407	UBON RATCHATHANI	W R	
48421	THONG PHA PHUM	S	
48426	LOP BURI	S	
48431	NAKHON RATCHASIMA	S	
48431	NAKHON RATCHASIMA	W	
48432	SURIN	S	
48455	BANGKOK	S	
48455	BANGKOK	W R	
48456	DON MUANG	S	
48462	ARANYAPRATHET	S	
48475	HUA HIN	S	
48477	SATTAHIP	S	
48477	SATTAHIP	W	
48480	CHANTHABURI	S	
48480	CHANTHABURI	W	
48500	PRACHUAP KHIRIKHAN	S	
48500	PRACHUAP KHIRIKHAN	W	
48501	KHLONG YAI	S	
48517	CHUMPHON	S	
48532	RANONG	S	
48551	SURAT THANI	S	
48551	SURAT THANI	W	
48552	NAKHON SI THAMMARAT	S	
48565	PHUKET AIRPORT	S	
48567	TRANG	S	
48568	SONGKHLA	W R	
48569	HAT YAI	S	
48583	NARATHIWAT	S	

**TURKMENISTAN**

38388	EKEZHE	S	
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38392	DASHKHOVUZ	W R
38392	DASHKHOVUZ	S
38507	TURKMENBASHI	S
38507	TURKMENBASHI	S
38511	CHAGYL	S
38545	DARGANATA	S
38647	GAZANDZHYYK	S
38656	ERBENT	S
38687	CHARDZHEV	S
38750	ESENGLY	S
38763	GYZYLARBAT	S
38774	BAKHERDEN	S
38799	UCHADZHY	S
38806	BYRDALYK	S
38880	ASHGABAT KESHI	S
38886	TEDZHEN	S
38895	BAJRAMALY	S
38911	KERKI	S
38915	CARSANGA	S
38974	SARAGT	S
38987	GYSHGY	S

**UNITED ARAB EMIRATES**

41184	RAS AL KHAIMAH INTERNATIONAL AIRPORT	S
41194	DUBAI INTERNATIONAL AIRPORT	S
41196	SHARJAH INTER. AIRPORT	S
41198	FUJAIRAH	S
41216	ABU DHABI BATEEN AIRPORT	S
41217	ABU DHABI INTER. AIRPORT	S
41217	ABU DHABI INTER. AIRPORT	W R
41218	AL AIN INTERNATIONAL AIRPORT	W R

**UZBEKISTAN**

38141	JASLYK	S
38149	KUNGRAD	S
38178	AK-BAJTAL	S
38262	CHIMBAJ	S
38264	NUKUS	S
38264	NUKUS	W
38396	URGENCH	S
38396	URGENCH	W
38403	BUZAUBAJ	S
38413	TAMDY	S
38457	TASHKENT	S
38457	TASHKENT	W R
38462	PSKEM	S
38565	NURATA	S
38579	DZIZAK	S
38583	SYR-DAR'JA	S
38611	NAMANGAN	S
38618	FERGANA	S
38683	BUHARA	S
38683	BUHARA	W
38696	SAMARKAND	S
38812	KARSHI	S
38812	KARSHI	W
38927	TERMEZ	S

**VIETNAM**

48803	LAO CAI	S
48806	SON LA	S
48808	CAO BANG	S
48820	HA NOI	S
48820	HA NOI	W R
48823	NAM DINH	S
48826	PHU LIEN	S
48830	LANG SON	S
48839	BACH LONG VI	S
48840	THANH HOA	S
48845	VINH	S
48848	DONG HOI	S
48852	HUE	S
48855	DA NANG	S
48855	DA NANG	W R
48860	HOANG SA (PATTLE)	S
48870	QUY NHON	S
48877	NHA TRANG	S
48887	PHAN THIET	S
48892	SONG TU TAY (SOUTH WEST CAY)	S
48900	TAN SON HOA	S
48900	TAN SON HOA	W R
48914	CA MAU	S
48914	CA MAU	W
48916	THO CHU	S
48917	PHU QUOC	S
48918	CON SON	S
48919	HUYEN TRAN	S
48920	TRUONG SA	S

**YEMEN**

41372	SAADA	S
41396	SEIYOUN	S
41398	AL-GHAIDAH	S
41404	SANA'A	S
41404	SANA'A	W R
41407	MARIB	S
41416	KAMARAN	S
41431	HODEIDAH	S
41437	ATAQ	S
41443	RIYAN	S
41443	RIYAN	W
41466	TAIZ	S
41480	ADEN	S
41480	ADEN	W R
41494	SOCOTRA	S
41494	SOCOTRA	W R

**Legend:**

S = Surface Observations  
W = Radiowind Observations  
R = Radiosonde Observations

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## APPENDIX II

## PROPOSED LIST OF STATIONS COMPRISING THE REGIONAL BASIC CLIMATOLOGICAL NETWORK (RBCN) IN RAIL

<u>INDEX</u>	<u>STATION NAME</u>	<u>CLIMAT</u>	<u>CLIMAT TEMP</u>	<u>GSN</u>	<u>GUAN</u>
<b>AFGHANISTAN, ISLAMIC STATE OF</b>					
40930	NORTH SALANG	X		X	
40938	HEART	X	X		
40942	CHAKHCHARAN	X			
40948	KABUL AEROPORT		X		
40990	KANDAHAR AEROPORT	X			
<b>BAHRAIN</b>					
41150	BAHRAIN INT. AIRPORT	X		X	
<b>BANGLADESH</b>					
41859	RANGPUR	X			
41883	BOGRA	X	X		
41891	SYLHET	X			
41923	DAKKA		X		
41936	JESSORE	X			
41950	BARISAL	X			
41992	COX'S BAZAR	X			
<b>CAMBODIA</b>					
48966	SIEMREAP	X			
48991	PHNOM-PENH	X	X		
<b>CHINA</b>					
50527	HAILAR	X	X	X	X
50745	QIQIHAR	X		X	
50963	TONGHE	X			
51076	ALTAY	X	X	X	
51243	KARAMAY	X			
51431	YINING	X	X		
51463	URUMQI	X	X	X	
51644	KUQA	X			
51656	KORLA	X			
51709	KASHI	X	X	X	X
51747	TAZHONG	X			
51777	RUOQIANG	X	X	X	
51828	HOTAN	X	X	X	
52203	HAMI	X	X	X	
52267	EJIN QI	X			
53323	MAZONG SHAN	X			
52418	DUNHUANG	X			
52495	BAYAN MOD	X			
52533	JIUQUAN	X	X	X	
52681	MINQIN	X	X		X
52818	GOLMUD		X		
52836	DULAN	X		X	
52866	XINING	X			
52889	LANZHOU	X	X	X	
53068	ERENHOT	X	X	X	X
53336	HALIUT	X			
53463	HOHHOT	X	X		
53614	YINCHUAN	X	X	X	
53772	TAIYAN	X	X	X	
53845	YAN AN	X			
54026	JARUD QI	X			
54102	XILIN HOT	X	X		

54161	CHANGCHUN	X	X		
54218	CHIFENG	X			
54292	YANJI	X			
54342	SHENYANG	X	X	X	
54511	BEIJING	X	X	X	
54662	DALIAN	X	X		
54823	JINAN	X	X		
54857	QINGDAO	X	X	X	
55228	SHIQUANHE	X			
55299	NAGQU		X		X
55472	XAINZA	X			
55591	LHASA	X	X	X	
56004	TUOTUONE	X			
56029	YUSHU	X	X		
56046	DARÇAG	X			
56079	RUO'ERGAI	X			
56106	SOG XIAN	X			
56137	QAMDO	X		X	
56294	CHENGDU	X	X	X	
56444	DEQEN	X			
56571	XICHANG	X		X	
56739	TENG CHONG	X	X	X	
56778	KUNMING	X	X		X
56964	SIMAO	X			
56985	MENGZI	X		X	
57036	XI'AN	X	X	X	
57083	ZHENGZHOU	X	X	X	
57127	HANZHONG	X			
57461	YICHANG	X	X	X	X
57494	WUHAN	X	X		
57516	CHONGQING	X			
57687	CHANGSHA	X			
57745	ZHIJIANG	X		X	
57749	HUAIHUA		X		
57816	GUIYANG	X	X		
57993	GANZHOU	X		X	
58027	XUZHOU	X			
58238	NANJING	X	X		
58362	SHANGHAI	X	X	X	
58606	NANCHANG	X		X	
58633	QU XIAN	X	X		
58666	DACHEN DAO	X			
58847	FUZHOU	X	X		
58968	TAIBEI	X	X		
59211	BAISE	X			
59280	QING YUAN		X		
59287	GUANGZHOU	X		X	
59316	SHANTOU	X		X	
59358	TAINAU	X			
59431	NANNING	X	X	X	
59758	HAIKOU	X	X	X	
59792	DONGSHA DAO	X			
59948	YAXIAN	X			
59981	XISHA DAO	X	X		
<b>DPR OF KOREA</b>					
47014	CHUNGGANG	X		X	
47016	HYESAN	X			
47025	KIMCHAEK	X			
47035	SINUIJU	X			
47055	WONSAN	X			
47058	PYONGYANG	X	X		

47069	HAEJU	X		
<b>HONG KONG, CHINA</b>				
45004	KOWLOON	X	X	X
<b>INDIA</b>				
42027	SRINAGAR	X	X	X
42071	AMRITSAR	X		
42083	SHIMLA	X		X
42147	MUKTESWAR	X		
42165	BIKANER	X		X
42182	NEW DELHI/SARDARJUNG	X	X	X
42295	DARJEELING	X		X
42314	DIBRUGARH	X		
42339	JODHPUR	X	X	
42369	LUCKHOW/AMAUSI		X	
42379	GORAKHPUR	X		
42410	GUWAHATI	X	X	X
42452	KOTA AERODROME	X		
42475	ALLAHABAD/BAMHRAULI	X		
42492	PATNA		X	
42515	CHERRAPUNJI	X		X
42539	DEESA	X		X
42587	DALTONGANJ	X		X
42619	SILCHAR	X		
42647	AHMADABAD	X	X	
42671	SAGAR	X		X
42731	DWARKA	X		X
42754	INDORE	X		
42779	PENDRA ROAD	X		X
42798	JAMSHEDPUR	X		
42807	CALCUTTA/ALIPORE	X		
42809	CALCUTTA/DUM DUM		X	
42867	NAGPUR SONEGA	X	X	
42909	VERAVAL	X		
42933	AKOLA	X		
42971	BHUBANESWAR	X	X	
42977	SANDHEADS	X		
43003	BOMBAY/SANTACRUZ		X	
43041	JAGDALPUR	X		X
43057	BOMBAY/COLABA	X		
43063	POONA	X		X
43128	HYDERABAD AIRPORT	X	X	X
43149	VISHAKHAPATNAM	X		
43150	CWC VISHAKHAPATNAM		X	
43185	MACHILIPATNAM	X		
43192	GOA/PANJIM	X	X	
43198	BELGAUM/SAMBRA	X		
43279	MADRAS/MINAMBAKKAM	X	X	X
43285	MANGALORE/PANAMBUR		X	
43295	BANGALORE	X		X
43311	AMINI DIVI	X		
43314	KOSHIKODE	X		
43333	PORT BLAIR	X	X	X
43339	KODAIKANAL	X		X
43346	KARAIKAL		X	
43363	PAMBAN	X		X
43369	MINICOY	X	X	X
43371	THIRUVANANTHAPURAM	X	X	
<b>IRAN, ISLAMIC REPUBLIC OF</b>				
40706	TABRIZ	X	X	X
40712	OROMIEH	X		
40718	ANZALI	X		
40745	MASHHAD	X	X	X

40754	TEHRAN-MEHRABAD	X			
40766	KERMANSHAH	X			
40800	ESFAHAN	X			
40827	NEHBANDAN	X			
40831	ABADAN	X			
40841	KERMAN	X	X		X
40848	SHIRAZ	X			X
40879	IRANSHAHR	X			
<b>IRAQ</b>					
40608	MOSUL	X			
40621	KIRKUK	X			
40634	HADITHA	X			
40637	KANAQIN	X			
40642	RUTBAN	X			
40650	BAGHDAD		X		
40665	KUT-AL-HAI	X			X
40676	NASIRIA	X			
<b>JAPAN</b>					
47401	WAKKANAI	X	X		
47407	ASAHIKAWA	X			
47409	ABASHIRI	X			
47412	SAPPORO	X	X		X
47418	KUSHIRO	X			
47420	NEMURO	X	X		X
47421	SUTTTSU	X			X
47426	URAKAWA	X			
47430	HAKODATE	X			
47570	WAKAMATSU	X			
47575	AOMORI	X			
47582	AKITA	X	X		
47585	MIYAKO	X			X
47590	SENDAI	X	X		
47598	ONAHAMA	X			
47600	WAJIMA	X	X		X
47602	AIKAWA	X			
47605	KANAZAWA	X			
47618	MATSUMOTO	X			
47624	MAEBASHI	X			
47636	NAGOYA	X			
47646	TATENO		X		X
47648	CHOSHI	X			X
47655	OMAEZAKI	X			
47662	TOKYO	X			
47663	OWASE	X			
47675	OSHIMA	X			
47678	HACHIJOJIMA/OMURE	X	X		X
47740	SAIGO	X			X
47741	MATSUE	X			
47744	YONAGO		X		
47746	TOTTORI	X			
47750	MAIZURU	X			
47755	HAMADA	X			
47772	OSAKA	X			
47778	SHIONOMISAKI	X	X		X
47800	IZUHARA	X			X
47807	FUKUOKA	X	X		
47815	OITA	X			
47817	NAGASAKI	X			
47827	KAGOSHIMA	X	X		X
47830	MIYAZAKI	X			
47837	TANEGASHIMA	X			
47843	FUKUE	X			



47887	MATSUYAMA	X			
47891	TAKAMATSU	X			
47898	SHIMIZU	X			
47899	MUROTOMISAKI	X			
47909	NAZE/FUNCHATOGE	X	X		X
47918	ISHIGAKIJIMA	X	X		X
47927	MIYAKOJIMA	X			
47936	NAHA	X	X		X
47945	MINAMIDAITOJIMA	X	X		X
47971	CHICHIJIMA	X	X		X
47991	MINAMITORISHIMA	X	X		X
<b>KAZAKHSTAN</b>					
28679	PETROPAVLOVSK	X			
28766	BLAGOVES'CHENSK	X			
28879	KOKSHETAV	X			
28952	KUSTANAI	X	X		X
28966	RUSAEVKA	X			
29807	IRTYSHSK	X			X
35067	ESIE'	X			
35078	ATBASAR	X			X
35108	URALSK	X			X
35188	ASTANA	X			
35217	DZHAMBEJTY	X			
35229	AKTJUBINSK	X	X		
35376	BERLIK	X			
35394	KARAGANDA	X	X		X
35406	TAIPAK	X			
35416	UIL	X			X
35426	TEMIR	X			
35671	ZHEZKAZGAN		X		
35700	ATYRAN	X	X		
35746	ARALSKOE MORE	X			
35796	BALHASH	X			X
35849	KAZALINSK	X			X
35925	SAM	X			X
35953	DZHYSALY	X			
36003	PAVLODAR	X	X		
36177	SEMIPALATINSK	X			X
36208	LENINOGORSK	X			
36428	BOL'SHE NARYMSKOE	X			
36535	KOKPEKTY	X			X
36859	ZHARKENT	X			X
36870	ALMAAMY	X	X		X
38062	KYZYLORDA	X			
38069	CIILI	X			
38328	SHYMKENT	X			
38334	AUL TURARA	X			
38341	ZHAMBYL	X	X		
38343	KOOLAN	X			
38439	CARDARA	X			
<b>KUWAIT</b>					
40582	KUWAIT INT'L AIRPORT	X	X		X
<b>KYRGYZSTAN</b>					
36911	TOKMOK	X			
36974	NARYN	X			X
36982	TIAN-SHAN	X			
38345	TALAS	X			
38353	BISHKEK		X		
38616	KARA-SUU	X			
<b>LAO PDR</b>					
48930	LUANG-PRABANG	X			
48940	VIENTIANE	X	X		

48947	SAVANNAKHET	X		
48955	PAKSE	X		
<b>MACAU, CHINA</b>				
45011	TAIPA GRANDE	X		
<b>MALDIVES</b>				
43555	MALE	X	X	X
43599	GAN	X		
<b>MONGOLIA</b>				
44203	RINCHINLHUMB	X		
44207	HATGAL	X		
44212	ULAAN-GOM	X	X	X
44213	BARUUNTURUUN	X		
44214	UIGI	X		
44215	OMNO-GOBI	X		
44218	HOVD	X		X
44230	TARIALAN	X		
44231	MUREN	X	X	X
44232	HUTAG	X		
44239	BULGAN	X		X
44241	BARUUNKHARAA	X		
44256	DASHBALBAR	X		
44259	CHOIBALSAN	X	X	X
44265	BAITAG	X		
44272	ULIASTAI	X		X
44277	ALTAI	X	X	
44282	TSETSERLEG	X		
44284	GAIUUT	X		
44285	HUJIRT	X		
44287	BAYANHONGOR	X		
44288	ARVAIHEER	X	X	X
44292	ULAAN-BAATOR	X	X	
44294	MAANTI	X		
44298	CHOIR	X		
44302	BAYAN-OVOO	X		
44304	UNDERKHAAN	X		
44305	BARUUN-URT	X		
44313	KHAEKH-GOL	X		
44314	MATAD	X		
44317	ERDENE-TSAGAAN	X		X
44336	SAIKHAN-OVOO	X		
44341	MANDALGOVI	X		X
44347	TSOGT-OVOO	X		
44352	BAYANDELGER	X		
44373	DALANZADGAD	X		X
<b>MYANMAR</b>				
48008	MYITKYINA	X		
48042	MANDALAY	X		X
48053	MEIKTILA		X	
48062	SITTWE	X		X
48097	YANGON	X	X	X
48112	VICTORIA POINT	X		
<b>NEPAL</b>				
44454	KATHMANDU AIRPORT	X	X	
44477	DHANKUTA	X		
<b>OMAN</b>				
41246	MAJIS (SOHAR)	X		
41253	RUSTAQ	X		
41254	SAIQ	X		X
41256	SEEB, INT'L AIRPORT	X	X	
41262	FAHUD	X		
41264	ADAM	X		
41265	IBRA	X		

41268	SUR	X		
41288	MASIRAH	X		X
41304	MARMUL	X		
41314	THUMRAIT	X		
41316	SALALAH	X	X	X
<b>PAKISTAN</b>				
41515	DROSH	X		
41530	PESHAWAR	X	X	
41560	PARACHINAR	X		X
41571	ISLAMABAD AIRPORT	X		
41594	SARGODHA	X	X	
41598	JHELUM	X		
41600	SIALKOT	X		
41620	ZHOB	X		X
41624	DERA ISMAIL KHAN	X		
41640	LAHORE CITY	X		X
41660	QUETTA AIRPORT	X		
41675	MULTAN	X	X	
41685	BAR KHAN	X		
41710	NOKKUNDI	X		
41712	DAL BANDIN	X		X
41715	JACOBABAD	X		
41718	KHANPUR	X		
41739	PANJGUR	X		
41744	KHUZDAR	X		
41749	NAWABSHAH	X		
41756	JIWANI	X		
41759	PASNI	X		X
41764	HYDER ABAD	X		X
41768	CHHOR	X		
41780	KARACHI AIRPORT	X	X	
<b>QATAR</b>				
41170	DOHA INT'L AIRPORT	X	X	
<b>REPUBLIC OF KOREA</b>				
47101	CHUNCHON	X		
47105	KANGNUNG	X		
47108	SEOUL	X		
47112	INCHON	X		X
47115	ULLUNGDO	X		X
47122	OSAN AB		X	
47133	TAEJON	X		
47138	POHANG	X	X	
47158	KWANGJU AB		X	
47159	PUSAN	X		
47165	MOKPO	X		X
47168	YOSU	X		
47184	CHEJU	X		
47185	CHEJU UPPER/RADAR		X	
<b>RUSSIAN FEDERATION (IN ASIA)</b>				
20046	POLAR GMO IM. E.T. KRENKELJA	X	X	X
20069	OSTROV VIZE	X		X
20087	OSTROV GOLOMJANNYJ	X		X
20292	GMO IM. E.K. FEDOROVA	X	X	X
20667	IM. M.V. POPOVA	X		X
20674	OSTROV DIKSON	X	X	X
20744	MALYE KARMAKULY	X		X
20891	HATANGA	X	X	X
21432	OSTROV KOTEL'NYJ	X	X	X
21647	MYS SHALAUROVA	X		X
21802	SASKYLAH	X		
21824	TIKSI		X	
21921	KJUSJUR	X		X

21931	JUBILEJNAJA	X		X	
21946	CHOKURDAH	X		X	
21982	OSTROV VRANGELJA	X	X	X	X
23074	DUDINKA	X		X	
23146	MYS KAMENNYJ	X			
23205	NAR'JAN-MAR	X	X	X	
23219	HOSEDA-HARD	X			
23330	SALEHARD	X	X	X	
23405	UST'-CIL'MA	X		X	
23472	TURUHANSK	X	X	X	X
23552	TARKO-SALE	X		X	
23631	BEREZOVO	X		X	
23711	TROICKO-PECERSKOE	X		X	
23724	NJAKSIMVOL'	X		X	
23804	SYKTYVKAR	X	X	X	
23884	BOR	X	X	X	
23891	BAJKIT	X		X	
23914	CHERDYN'	X		X	
23933	HANTY-MANSIJSK	X	X	X	
23955	ALEKSANDROVSKOE	X	X	X	
24105	ESSEJ	X		X	
24125	OLENEK	X	X	X	
24143	DZARDZAN	X		X	
24266	VERHOJANSK	X	X	X	X
24329	SELAGONCY	X		X	
24343	ZHIGANSK	X	X	X	
24382	UST'-MOMA	X		X	
24507	TURA	X	X	X	
24641	VILJUJSK	X		X	
24671	TOMPO	X		X	
24688	OJMJAKON	X		X	
24738	SUNTAR	X		X	
24817	ERBOGACEN	X		X	
24908	VANAVARA	X	X	X	
24944	OLEKMINSK	X		X	
24959	JAKUTSK	X	X	X	
24966	UST'-MAJA	X		X	
25173	MYS SHMIDTA	X	X	X	
25248	ILIRNEJ	X		X	
25325	UST'-OLOJ	X		X	
25399	MYS UELEN	X		X	
25400	ZYRJANKA	X	X	X	
25551	MARKOVO	X		X	
25563	ANADYR'	X	X	X	
25621	KEDON	X			
25703	SEJMCHAN	X	X	X	
25913	MAGADAN	X	X	X	
25954	KORF	X	X	X	
28009	KIRS	X			
28064	LEUSI	X		X	
28138	BISER	X		X	
28224	PERM'	X			
28275	TOBOL'SK	X		X	
28411	IZHEVSK	X			
28440	EKATERINBURG	X			
28445	VERHNEE DUBROVO		X		
28493	TARA	X		X	
28661	KURGAN	X		X	
28698	OMSK	X	X	X	X
28711	BUGUL'MA	X			
28722	UFA	X		X	
28838	MAGNITOGORSK	X			

29231	KOLPASEVO	X	X	X	
29263	ENISEJSK	X		X	
29282	BOGUCANY	X		X	
29570	KRASNOJARSK	X			
29572	EMEL'JANOVO		X		
29612	BARABINSK	X		X	
29634	NOVOSIBIRSK		X		
29654	CENTRAL'NYI RUDNIK	X			
29698	NIZHNEUDINSK	X		X	
29838	BARNAUL	X		X	
29866	MINUSINSK	X		X	
30054	VITIM	X		X	
30230	KIRENSK	X	X	X	X
30309	BRATSK	X			
30372	CHARA	X	X	X	
30393	CUL'MAN	X		X	
30469	KALAKAN	X			
30521	ZHIGALOVO	X			
30554	BAGDARIN	X		X	
30635	UST'-BARGUZIN	X		X	
30673	MOGOGA	X		X	
30692	SKOVORODINO	X		X	
30710	IRKUTSK	X		X	
30758	CHITA	X	X		
30879	NERCHINSKIJ ZAVOD	X		X	
30925	KJAHTA	X		X	
30949	KYRA	X		X	
30965	BORZJA	X		X	
31004	ALDAN	X	X	X	
31088	OHOTSK	X	X	X	
31123	CJUL'BJU	X			
31168	AJAN	X	X	X	
31253	BOMNAK	X		X	
31329	EKIMCHAN	X		X	
31369	NIKOLAEVSK-NA-AMURE	X		X	
31416	IM POLINY OSIPENKO	X		X	
31510	BLAGOVESCENSK	X	X		
31538	SUTUR	X			
31707	EKATERINO-NIKOL'SKOE	X		X	
31735	HABAROVSK	X		X	
31736	HABAROVSK		X		
31829	ZOLOTOJ	X		X	
31909	TERNEJ	X		X	
31960	VLADIVOSTOK	X	X	X	
32061	ALEKSANDROVSK-SAHALINSKIJ	X	X		
32098	PORONAJSK	X		X	
32150	JUZHNO-SAHALINSK	X	X		
32195	SIMUSIR	X		X	
32215	SEVERO-KURIL'SK	X	X		
32252	UST-VOJAMPOLKA	X		X	
32389	KLJUCHI	X	X	X	
32411	ICA	X		X	
32540	PETROPAVLOVSK-KAMCHATCHIJ		X		X
32583	PETROPAVLOVSK-KAMCHATSKIJ	X			
32618	NICOL'SKOE	X		X	
35121	ORENBURG	X	X	X	X
36061	TUROSAK	X			
<b>SAUDI ARABIA</b>					
40356	TURAIF	X			
40357	ARAR	X			
40360	GURIAT	X			
40361	AL-JOUF	X		X	

40362	RAFHA	X			
40373	AL-QAISUMAH	X	X		
40375	TABUK	X	X		
40377	HAFR AL-BATIN	X			
40394	HAIL	X	X		X
40400	AL-WEJH	X			
40405	GASSIM	X			
40410	KHAYBER	X			
40416	DHAHRAN	X			
40417	KING FAHAD INT'L AEROPORT		X		
40420	AL-AHSA	X			
40430	AL-MADINAH	X	X		X
40435	AL-DAWADAMI	X			
40437	KING KHALED AEROPORT	X	X		
40438	RIYADH OBS.	X			X
40439	YENBO	X			
41006	MUWAIH	X			
41024	JEDDAH	X	X		X
41030	MAKKAH	X			
41036	AL-TAIF	X			
41055	AL-BAHA	X			
41061	WADI AL-DAWASSER AIRPORT	X			
41084	BISHA	X			
41112	ABHA	X	X		X
41114	KHAMIS MUSHA IT	X			
41128	NAJRAN	X			
41136	SHARORAH	X			
41140	GIZAN	X			
41141	GIZAN	X			X
<b>SRI LANKA</b>					
43418	TRINCOMALEE	X			
43424	PUTTALAM	X			
43466	COLOMBO	X	X		
43473	NUWARA ELIYA	X			X
43497	HAMBANTOTA	X			X
<b>TAJIKISTAN</b>					
38599	KHUDJAND	X			
38836	DUSHANBE	X	X		
38933	KURGAN-TYUBE	X			X
38954	KHOROG	X			X
<b>THAILAND</b>					
48303	CHIANG RAI	X			X
48327	CHIANG MAI	X	X		
48354	UDON THANI	X			
48378	PHITSANULOK	X			
48400	NAKHON SAWAN	X			X
48407	UBON RATCHATHANI	X	X		X
48431	NAKHON RATCHASIMA	X			
48455	BANGKOK	X	X		X
48462	ARANYAPRATHET	X			X
48480	CHANTHABURI	X			
48500	PRACHUAP KHIRIKHAN	X			X
48517	CHUMPHON	X			
48568	SONGKHLA	X	X		X
<b>TURKMENISTAN</b>					
38388	YEKEJE	X			
38392	DASHOGUZ	X			
38507	TURKMENBASHI	X			X
38511	CHAGYL	X			
38545	DARGANATA	X			
38656	YERBENT	X			
38687	TURKMENABAT	X			

38750	ESENGULY	X		X	
38763	SERDAR	X		X	
38880	ASHGABAT	X	X		X
38895	BAYRAMALY	X		X	
38915	KOYTENDAG	X		X	
38974	SARAGT	X			
<b>UNITED ARAB EMIRATES</b>					
41194	DUBAI INT'L AIRPORT	X			
41196	SHARJAH INT'L AIRPORT	X		X	
41216	ABU DHABI BATEEN AIRPORT	X			
41217	ABU DHABI INT'L AIRPORT	X	X		X
<b>UZBEKISTAN</b>					
38178	AK-BAJTAL	X			
38262	CHIMBAJ	X		X	
38396	URGENCH	X			
38403	BUZAUBAJ	X			
38413	TAMDY	X		X	
38457	TASHKENT	X	X	X	
38611	NAMANGAN	X	X		
38618	FERGANA	X			
38683	BUHARA	X			
38696	SAMARKAND	X			
38812	KARSHI	X			
38927	TERMEZ	X	X		
<b>VIETNAM</b>					
48806	SON LA	X			
48808	CAO BANG	X			
48820	HA NOI	X	X		
48826	PHU LIEN	X			
48830	LANG SON	X			
48840	THANH HOA	X			
48845	VINH	X			
48848	DONG HOI	X			
48852	HUE	X			
48855	DA NANG	X	X	X	
48870	OUY NHON	X			
48877	NHA TRANG	X			
48887	PHAN THIET	X			
48892	SONG TU TAY	X			
48900	HO CHI MINH	X		X	
48914	CA MAU	X			
48920	TRUONG SA	X			
<b>YEMEN</b>					
41407	MARIB	X			
41443	RIYAN	X		X	
41480	ADEN	X	X	X	
41494	SOCOTRA	X	X		

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