

DAILY SYNOPTIC UPPER - AIR REPORTS

The upper-air reports are derived in the same general manner as the surface data. For the most part, these observations have been for 0400Z, especially in Canada, Alaska, and the United States, with some additional observations at other hours when the station does not report at or near 0400Z. In Russia, where observations are taken at local mean solar time, reports from all available hours have been included. Stations using the 1945 Radiosonde Code use the convention of adding 50 to the Greenwich time to indicate that part of the observation above 400 millibars of pressure, commonly known as the "second transmission." Many stations outside North America indicate the time of observation other than on-the-hour by adding to the Greenwich hour 25, for 15 minutes past the hour; 50, for 30 minutes; and 75, for 45 minutes. Although this has not been "subtracted out" of the reports, the date has been listed chronologically by hour within station.

Assignment of Index Numbers:

The same method used in assigning station numbers in surface reports has been employed.

Station Lists:

The upper-air numerical station index which precedes the upper-air data is presented in the same form as the surface index. The alphabetic index following the charts includes all stations, both surface and upper-air. Stations for upper-air only are designated with a single asterisk; those for both upper-air and surface, with two asterisks; while those for surface only are merely listed.

Method of Presentation:

The upper-air data are presented in the same general way as the surface data. Stations are listed numerically within certain geographical areas according to their International Index Numbers. The teletype data have been edited for obvious errors, garbled data, etc.; but no attempt has been made to present the various winds aloft and radiosonde codes in a standard-level form. To the right of each line of the listed observations is a code number which indicates the type of code used for that report, as follows:

- | | |
|------------------|----------|
| 1. PIBAL | 5. RAOBS |
| 2. RAWIN | 6. PRAWT |
| 3. RABAL | 7. PRAT |
| 4. Russian PIBAL | 8. CORAC |
| 9. Russian RAOBS | |

While the upper-air observations usually have more than one line to an observation, the station number and hour appear only on the first line.

All land stations are listed first, and are followed by ship reports.

Description of Codes:

1. Winds Aloft

- | |
|---|
| a. IIIGG Hddvv Hddvv Hddvv |
| b. IIIGG Hddvv Hddvv 9999n Hddvv |
| c. IIIGG Hddvv Hddvv Hddvv C _L C _M HHM |
| d. IIIGG HHddv ₅ HHddv ₅ HHddv ₅ |
| e. IIIGG 8ddvv 9ddvv Oddvv M _x H _x H _x H _x C
(Russian) |

C International cloud code.

C_L Form of low cloud (International code).

C_M Form of middle cloud (International code).

dd Wind direction in tens of degrees.

GG Greenwich hour - Local mean solar time
(Russian code).

H Height in thousands feet meters.

HH Height of last observation.

HH Height in hectometers.

H_xH_xH_xH_x Height at which observations were discontinued
in tens of meters.

III Station index number.

M Reason for ceasing upper wind observation
(International code).

M_x Reason for ceasing upper wind observation
(Russian code).

- | | |
|---------------------------|-------------------------|
| 0 - Entering cloud | 5 - Lost behind cloud |
| 1 - Lost in fog | 6 - Lost in background |
| 2 - Lost in mist | 7 - Lost in distance |
| 3 - Lost accidentally | 8 - Lost, balloon burst |
| 4 - Lost in precipitation | 9 - Lost other causes |

v₅ Wind speed (International code).

vv Wind speed in miles per hour/knots.

vv Wind speed in meters per second (Russian code).

8,9,0,1 etc. Height levels (Russian code).

- | |
|------------------|
| 8 - Surface |
| 9 - 200 meters |
| 0 - 500 meters |
| 1 - 1000 meters |
| 2 - 2000 meters |
| . |
| . |
| . |
| 0 - 10000 meters |

9999_n Change in decade of thousands, the figure for
n to give the tens of thousands digit for
levels following.

Code "a" is generally used in North America and from stations controlled by United States. Code "b" is readily identified by group, 9999_n, and is used mainly in Europe. Code "c" may be identified by its last group and is also used in some European reports. Code "e" is identified by its height indicators and by the code number 4 at the extreme right hand column of each line of the observation.

Only when a station designates its winds-aloft observation by the word RAWIN or RABAL have the codes 2 and 3 been listed in the right hand column.

2. RAOBS

a. 1945 Radiosonde Code.

IIIGG P₀P₀P₀T₀T₀ U₀U₀x₁x₂x₃ 00hhh TTU_{m_rm_r}
(Oddvv) 85hhh TTU_{m_rm_r} 70hhh TTU_{m_rm_r}
50hhh TTU_{m_rm_r} nnPPP TTU_{m_rm_r}
IIIG₅₀G₅₀ 30hhh TTU_{m_rm_r} (Oddvv) 20hhh

TTUm_rm_r 10hhh TTUm_rm_r nnPPP TTUm_rm_r
 101A_{df}A_{df}
 b. IIIGG H_dH_dP₁P₁ TTTUU 00000
 H_dH_dH_dH_d TTTUU
 c. PRAWT
 IIIGG P_oP_oP_oT_oT_o U_oU_oDDv n₀n₉n₈n₇n₆ n₅n₄n₃n₂n₁
 HHTTU Uddvv 95TTU Uddvv HHTTU Uddvv 85TTU
 Uddvv 77788 P₁P₂P₃P₄P₅ PPTTU Uddvv

 d. PRAT
 IIIGG P_oP_oP_oT_oT_o U_oU_oKK- n₀n₉n₈n₇n₆ n₅n₄n₃n₂n₁
 HHTTU 95TTU HHTTU 85TTU HHTTU 77788
 P₁P₂P₃P₄P₅ ...PX PPTTU
 e. CORAC
 IIIGG P_oP_oP_oT_oT_o U_oU_ox₁x₂x₃ (Oddvv) P₁P₁h₁h₁h₁
 T₁T₁U₁u₁u₁ P₂P₂h₂h₂h₂ T₂T₂U₂u₂u₂
 a. 11199 nnPPP TTUuu
 hh
 or
 77788 P₁P₁T₁T₁U₁ 10171
 lu₁u₁u₂u₂ 3u₃u₃u₄u₄ etc.
 f. Russian RAOB
 IIIGG H₁H₁H₁T₁T₁ H₂H₂H₂T₂T₂ 98765
 H_aH_aPPP T_aT_aT_aUU QQQEE H_bH_bPPP T_bT_bT_bUU
 QQQEE

A_{df}A_{df} Form of additional data follows
 (1945 Radiosonde code).

dd Wind direction in tens of degrees.

EE Equivalent potential temperature
in °C.

GG Greenwich hour - Local mean solar
time in Russian.

HH (PRAT AN) PRAWT) Height in tens
of feet or whole meters dependent
on KK.

H_aH_a, H_bH_b Height in hectometers.

H_dH_d Height in hundreds of geodynamic
meters.

H₁H₁H₁, H₂H₂H₂ (Russian code) Height at pressure
levels as follows:

1 - 1000 mb.	6 - 400
2 - 900	7 - 300
3 - 700	8 - 200 etc.
4 - 500	

h₁h₁h₁, h₂h₂h₂ Height in tens of feet or whole
meters.

III Station index number.

KK Indicator of form of report in
PRAT code.

m_rm_r Mixing ratios in grams of water
vapor per kilogram of dry air.

nn Gives significant levels given
consecutively.

hh Gives height of level in 100's
of feet or tens of meters accord-
ing to regional agreement.

n₀n₉n₈n₇n₆ n₅n₄n₃n₂n₁ Thousands figure in heights above
M.S.L. of the 1000 mb, 900 mb, etc.

PP Pressure in tens of millibars.

PPP Pressure in whole millibars.

P_oP_oP_o Station level pressure.

P₁P₁, P₂P₂ Pressure in tens of millibars of
1st, 2nd, etc. levels.

P₁P₂P₃P₄P₅ Units figure of pressures for
following levels which report in
tens of millibars.

QQ (Russian code) Mixing ratio in
grams and tenths. Temperature of
air in whole degrees.

TT Temperature of air in whole degrees.

T_oT_o Temperature of air at surface.

T₁T₁, T₂T₂ Temperature at certain levels.

TTT Temperature in degrees and tenths.

U Relative humidity (International
code).

UU Relative humidity in percent.

U_oU_o Relative humidity in percent at
surface.

u₁u₁, u₂u₂ Moisture values indicated by x₃.

vv Wind speed.

X Used to make a five digit group.

x₁x₂x₃ Indicator figures to show units used,
x₁ for heights, x₂ for wind, x₃ for
moisture values. (International
code).

O Indicator figure for wind group.

00000 Indicates that temperatures and
humidities are for fixed pressures,
1000, 900, 800 mbs. etc.

00,85,70,50 etc. (1945 Radiosonde) Indicator figures
for 1000, 850, 700 mb. levels.

ALASKA PRIMARY	0150	643 LA CROSSE WIS 645 GREEN BAY WIS 644 HURON S DAK 657 ST PAUL MINN 662 RAPID CITY S DAK 666 SHERIDAN WYO 677 BILLINGS MONT 679 BUTTE MONT 681 ROISE GOWEN FLD IDAHO 683 BURNS OREG 684 PENDELTON OREG 693 EUGENE OREG 698 PORTLAND OREG 712 CARIBOU MAINE 713 PRESQUE ISLE MAINE 734 ULT STE MARIE MICH 743 HARBORVILLE MICH 745 DULUTH MINN 747 INTERNATIONAL FALLS MINN 753 FARGO N DAK 764 BISMARCK N DAK 767 WILLISTON N DAK 768 GLASGOW MONT 773 MISSOULA MONT 775 GREAT FALLS MONT 777 HAVRE MONT 782 ELLENBURG WASH 785 SPOKANE FELTS FLD WASH 793 SEATTLE KING CO APT WASH 798 TATOOSH ISLAND WASH	BELGIUM AND NETHERLAND PRIMARY	1510	276 UCCLE 293 DE BILT SOESTEBER NETH	RUSSIA IN ASIA SUPPLEMENTARY AREA 9	2329			
ALASKA ARBITRARY	0151	973 ANCHORAGE ELMENDORF FLD	BELGIUM AND NETHERLAND SUPPLEMENTARY	1512	300 BRUSSELS A DROME BEL					
ALASKA SUPPLEMENTARY	0152	005 AMCHITKA 007 UMNIAK ALASKA 009 FORT GLENN 032 NORTHWAY 048 ANNETTE IS 308 FORT HANDALL COLD BAY 549 SHEMYA ISLAND	ITALY PRIMARY	1610	302 MILANO LINATE 322 ROME CENTOCCELLE 338 CASALINI ELWAS 341 MALTA VALETTA	INDIA AND ARABIAN AREA PRIMARY	2520			
CANADA PRIMARY	0250	600 SABLE ISLAND N S 601 DARTMOUTH N S 624 MALTON ONT 627 DORVAL QUE 628 OTTAWA ONT 717 CHATHAM N B 799 VICTORIA PATRICIA BAY B C 803 GANDER LAKE NFLD 815 STEPHENVILLE NFLD 816 GODS BAY LAB 826 MITCHEQUON QUE 831 KAPUSKASING ONT 836 MOOSEJON ONT 842 SIOUX LOOKOUT ONT 852 WINNIPEG MAN 863 REGINA SASK 867 THE PAS AIRPORT MAN 869 PRINCE ALBERT SASK 874 LETHBRIDGE ALTA 877 CALGARY ALTA 879 EDMONTON ALTA 885 CARMI B C 892 VANCOUVER B C 896 PRINCE GEORGE B C 907 PORT HARRISON QUE 909 FROBISHER BAY GUFFIN IS 913 CHURCHILL AIRPORT MAN 915 CORAL HARBOUR N W T 916 CHESTERFIELD N W T 918 ARCTIC BAY N W T 932 MCHURRAY ALTA 934 FORT SMITH AIRPORT N W T 935 HAY RIVER AIRPORT N W T 936 ROSKILF N W T 940 GRANDE PRAIRIE ALTA 945 FORT NELSON B C 946 FT SIMPSON AIRPORT N W T 953 WATSON LAKE Y T 964 WHITCHURCH Y T 968 AKLAVIK N W T	ITALY SUPPLEMENTARY	1613	527 CAPODICHINO 529 FOGGIA 539 ROME CIAMPINO 547 PISA	INDIA AND ARABIAN AREA SUPPLEMENTARY	2522			
CANADA ARBITRARY	0251	043 NORMAN WELLS AIRPORT N W T 069 WAGNER ALTA 109 PORT HARDY B C 181 CAPE HARRISON LAB 188 MECATINA LAB 188 MINGAN QUE	SPAIN PRIMARY	1710	340 GIBRALTAR 353 MADRID	INDIA AND ARABIAN AREA SUPPLEMENTARY	2522			
CANADA SUPPLEMENTARY	0252	043 NORMAN WELLS AIRPORT N W T 069 WAGNER ALTA 109 PORT HARDY B C 181 CAPE HARRISON LAB 188 MECATINA LAB 188 MINGAN QUE	SPAIN SUPPLEMENTARY	1716	340 GIBRALTAR 353 MADRID	INDIA AND ARABIAN AREA SUPPLEMENTARY	2522			
UNITED STATES PRIMARY	0350	201 KEY WEST FLA 202 MIAMI FLA 205 ORLANDO FLA 206 JACKSONVILLE FLA 208 CHARLESTON S C 211 TAMPA FLA 214 TALLAHASSEE FLA 219 ATLANTA GA 220 APALACHICOLA FLA 222 PENSACOLA FLA 223 MOBILE ALA 226 MONTGOMERY DANNELLY FLD ALA 228 BIRMINGHAM ALA 231 NEW ORLEANS LA 232 BURRWOOD LA 235 JACKSON MISS 240 LAKE CHARLES LA 243 HOUSTON TEX 248 SHREVEPORT LA 250 BROWNSVILLE TEX 251 CORPUS CHRISTI TEX 252 LAREDO TEX 253 SAN ANTONIO TEX 256 ACO BLACKLAND FLD TEX 259 FT WORTH MEACHAM FLD TEX 265 DEL RIO TEX 266 BIG SPRINGS TEX 266 ABILENE TEX 268 ROSWELL N MEX 270 EL PASO TEX 274 TUCSON ARIZ 278 PHOENIX ARIZ 280 BURBANK CALIF 290 SAN DIEGO CALIF 303 FORT BRAGG N C 304 HATTIESBURG MISS 306 RALEIGH AIRPORT N C 308 NORFOLK VA 309 CHERRY POINT N C 313 SPARTANBURG S C 317 GREENSBORO N C 324 CHATTANOOGA TENN 326 KNOXVILLE TENN 327 NASHVILLE TENN 334 MEMPHIS TENN 340 LITTLE ROCK ARK 353 OKLAHOMA CITY OKLA 356 TULSA OKLA 363 ATARILLO ENG FLD TEX 365 ALBUQUERQUE N MEX 374 WINSLOW ARIZ 375 SANDERBEG CALIF 384 BAKERSFIELD CALIF 386 LAS VEGAS NEV 389 FRESNO CALIF 394 SANTA MARIA CALIF 401 RICHMOND VA 405 WASHINGTON D C 408 PHILADELPHIA PA 409 LAKELAND FLA 410 LYNCHBURG P GLENN APT VA 417 ELKINS W VA 421 COVINGTON KENTUCKY 423 LOUISVILLE KY 425 HUNTINGTON W VA 426 CINCINNATI OHIO 428 COLUMBUS OHIO 432 EVANSVILLE IND 434 ST LOUIS MO 436 INDIANAPOLIS IND 439 SPRINGFIELD ILL 440 SPRINGFIELD MO 442 COLUMBIA MO 446 YANBAS CITY MO 450 WICHITA KANS 451 JUDGE CITY KANS 464 PUEBLO COLO 465 GOODLAND KANS 469 DENVER COLO 476 GRAND JUNCTION COLO 483 SACRAMENTO CALIF 486 ELY WYLLAND FLD NEV 488 RENO HUBBARD FLD NEV 493 OAKLAND CALIF 497 AUBURN CALIF 503 NEW YORK N Y 506 HANTUCKET MASS 508 HARTFORD CONN 509 BOSTON MASS 511 HARRISBURG PA 512 PHILLIPSBURG PA 513 BINGHAMTON N Y 516 ALBANY N Y 518 SYRACUSE N Y 520 PITTSBURGH PA 521 AKRON OHIO 523 BUFFALO N Y 531 CHANUTE FIELD ILL 533 FORT WAYNE IND 534 CHICAGO ILL 536 TOLEDO OHIO 537 DETROIT MICH 544 MOLINE ILL 546 DES MOINES IOWA 553 OMAHA NEBR 557 SIOUX CITY IOWA 562 NORTH PLATTE NEBR 564 CHEYENNE WYO 569 CASPER WYO 572 SALT LAKE CITY UTAH 574 ROCK SPRINGS WYO 578 OGDEN UTAH 576 LAMAR WYO 578 FOCATELLO IDAHO 582 ELKO NEV 583 WINNENUCCA NEV 591 RED BLUFF CALIF 597 HEDFORD OREG 606 PORTLAND MAINE 617 BURLINGTON VT 636 MUSKOGEE MICH 639 ALPENA MICH 640 MILWAUKEE WIS 641 MADISON TRUAX FLD WIS	UNITED STATES SUPPLEMENTARY	0351	248 TEXARKANA ARK 272 RATON N M 385 RIVERSIDE CALIF MARCH FLD 434 BELLEVILLE SCOTT FLD ILL 493 ALAMEDA N A S CALIF	PORTUGAL AND AZORES PRIMARY	1810	343 LAGENS TERCEIRA IS AZORES 380 CABO RUIVO	CHINA AREA PRIMARY	2620
UNITED STATES SUPPLEMENTARY	0352	394 HANCHESTER N H	PORTUGAL AND AZORES SUPPLEMENTARY	1816	026 VILLA DO PORTO STA MAR AZORES 051 LISBON	CHINA AREA SUPPLEMENTARY	2621			
MEXICO PRIMARY	0450	164 MONTERREY NUEVO LEON	ASIA MINOR PRIMARY	2010	730 ATHENS AIRDROME GREECE	CHINA AREA SUPPLEMENTARY	2621			
MEXICO SUPPLEMENTARY	0452	893 MERIDA MEXICO	ASIA MINOR SUPPLEMENTARY	2017		CHINA AREA SUPPLEMENTARY	2621			
CENTRAL AMERICA PRIMARY	0550	095 SAN JOSE GUATEMALA	AFRICA PRIMARY	2130	003 RABAT FRENCH MOROCCO 058 ADULEF ALGERIA 060 TEBESSA ALGERIA 061 MAISON BLANCHE ALGERIA 080 TUNIS EL AQUINA TUNISIA 102 MISURATA LIBIA 112 DENNA LIBIA 113 ABOUKIR EGYPT 140 HELIOPOLIS EGYPT 142 ISMAILIA EGYPT	CHINA AREA SUPPLEMENTARY	2621			
CENTRAL AMERICA SUPPLEMENTARY	0552	913 MANAGUA NICARAGUA 921 RIO HATO R DE PANAMA 922 FRANCISCO DE CANAL ZONE 923 ALBROOK FIELD CANAL ZONE	AFRICA ARBITRARY	2131	500 ACEDARIA LIBYA 504 BENINA LIBYA 509 EL ADEM LIBIA 530 HAWANA CUBA 806 CASABLANCA FRENCH MOROCCO	CHINA AREA SUPPLEMENTARY	2621			
CARIBBEAN AREA PRIMARY	0650	002 WALLER FIELD TRINIDAD 014 FORTIN BRUNSWICK 015 SAN JUAN PUERTO RICO 024 SWAN ISLAND WEST INDIES 030 COOLIDGE FIELD ANTIGUA 061 NASSAU NEW PROVIDENCE 074 BELMONT BERMUDA	AFRICA SUPPLEMENTARY	2132	910 WELLAHA USAAF LIBIA	CHINA AREA SUPPLEMENTARY	2621			
CARIBBEAN AREA SUPPLEMENTARY	0652	926 KINDLEY FIELD BERMUDA 949 SOUTH CAICOS IS BAHAMAS 978 VERNAN FIELD JAMAICA 990 COOLIDGE FIELD ANTIGUA	RUSSIA IN EUROPE PRIMARY	2210	818 RIGA 824 ARKHANGELSK SALOMBALA 845 LENINGRAD OBSERVATORIA 887 MINSK 907 GORKII 909 MOSKVA OBSERVATORIA 925 KAZAN 931 KUIBYSHV 935 KURSK 941 SARATOV 947 KIEV 959 KHARKOV 975 ODESSA OBSERVATORIA 988 SEVASTOPOL	CHINA AREA SUPPLEMENTARY	2621			
SOUTH AMERICA	0760	852 ATKINSON FIELD BR GUIANA 064 ZANDERY FIELD BU GUIANA 074 CAYENNE FR GUIANA 908 TURBO COL	RUSSIA IN EUROPE SUPPLEMENTARY	2218	318 KIROV	CHINA AREA SUPPLEMENTARY	2621			
GREENLAND PRIMARY	1010		RUSSIA IN ASIA PRIMARY	2320	000 ROSTOV NA DONU 022 TBILISA TIFLIS 054 SALE KHARD 057 GONDROV 058 SAMARAVO 059 SURGUT USSR 060 TOROLSK 064 MOLOTVOV 070 ANANUL 072 SVERDLOVSK 073 CHELIABINSK POMOLOG 078 KUNGURAN 079 UFA 083 MACHITOGORSK 086 KUSTANAI 090 AKTIUBINSK 103 KAMENSK BALKHASH 106 DZHAMBUL 107 ALMA ATA 109 DZHARKENT 111 PETROPAVLOVSK 117 KARKOLINSK 118 SEMIPALATINSK 119 KARAGANDA 135 ASHKHABAD 139 STALINABAD 143 NOVYI USRENYCH 145 TASHKENT 147 SAMARKAND 148 TERMEZ 149 FRUNZE 167 KEMEROVO USSR 181 OMSK 182 BARNNAUL USSR 193 TIRA 201 KIRENSK 205 SVETENSK 213 CHITA 217 IRKUTSK 218 MILAN UDE 219 BORZIA 223 SUKTAI 238 JAKUTSK 243 NEZAMETNYI 248 KAMBUKI USSR 251 MOGOCHA 252 SKOLDOVGEN 253 KINCHAN 256 NORRSKI SKLAD 257 POLINA OSIPENKO 263 BLAGOVESHCHENSK 269 KHABAROVSK 273 IMAN 284 SOVETSKAIA CAVAN 285 ZHAN 290 NIKOLAIYSK NA AMUR 294 ALEXANDROVSK NA SAKHALINE 297 OLGA 298 VLADIVOSTOK	CHINA AREA SUPPLEMENTARY	2621			
GREENLAND SUPPLEMENTARY	1019	201 SONDRESTRØMFJORD 552 CAFF ADLÆR 553 SKJOLDVUNGEN 555 IKATED 584 KANGERLUKSUAQ 589 NARSARSSUAQ 591 WALRUS BAY	RUSSIA IN ASIA SUPPLEMENTARY AREA 4	2324	013 SARANUL USSR 036 CHAD USSR	CHINA AREA SUPPLEMENTARY	2621			
SCANDANAVIA AND ICELAND PRIMARY	1110	077 STOCKHOLM BROMMA SWEDEN 084 GOTEBURG FORSLANDS SWEDEN 181 COPENHAGEN AIRDROME DENMARK 081 HELSINKI AIRDROME FINLAND	RUSSIA IN ASIA SUPPLEMENTARY AREA 5	2325	013 SARANUL USSR 036 CHAD USSR	CHINA AREA SUPPLEMENTARY	2621			
SCANDANAVIA AND ICELAND SUPPLEMENTARY	1119	581 KEFLAVIK MEERS FLD ICELAND 936 GARDERMOEN NORWAY	RUSSIA IN ASIA SUPPLEMENTARY AREA 6	2326	580 TASHAUI USSR 617 ARALSKOE MORE 620 DZHUBALY 630 CHANGANGU 646 TAKHTA BAZAR 682 URSA TEVSKAIA 813 TALDY KURGAN USSR SIBERIA 846 TIAN SHAN USSR 877 KATAN KARAGAI	CHINA AREA SUPPLEMENTARY	2621			
BRITISH ISLES PRIMARY	1210	101 VALENTIA IRE 107 ALDERGROVE GT BRITAIN 117 LEUCHARS GT BRITAIN 146 LARKHILL 153 SHEEBURNNESS GREAT BRITAIN	RUSSIA IN ASIA SUPPLEMENTARY AREA 7	2327	476 KHARINSK USSR 503 UBRDOVSKO 504 VORONTSOVSHAIA PRISTAN USSR 505 WAMA 506 NEPA USSR 507 CHARA USSR 508 PROBRAZHENKA USSR 516 ROMONOVKA 540 MANGUT 553 ZILOVO 561 NERCHINSK 562 NEVERS FRANCE 586 ROFJEI PAULOVICH 596 TYGDA	CHINA AREA SUPPLEMENTARY	2621			
BRITISH ISLES SUPPLEMENTARY	1211	300 LIVERPOOL 400 HOUSEHOLE CORNWALL 501 LEWIS SHETLAND IS 504 STORNOWAY GT BRITAIN 664 DOWNHAM MARKET	RUSSIA IN ASIA SUPPLEMENTARY AREA 8	2328	476 KHARINSK USSR 503 UBRDOVSKO 504 VORONTSOVSHAIA PRISTAN USSR 505 WAMA 506 NEPA USSR 507 CHARA USSR 508 PROBRAZHENKA USSR 516 ROMONOVKA 540 MANGUT 553 ZILOVO 561 NERCHINSK 562 NEVERS FRANCE 586 ROFJEI PAULOVICH 596 TYGDA	CHINA AREA SUPPLEMENTARY	2621			
GERMAN AREA PRIMARY	1310	421 HANNOVER 442 BREMEN	RUSSIA IN ASIA SUPPLEMENTARY AREA 8	2328	476 KHARINSK USSR 503 UBRDOVSKO 504 VORONTSOVSHAIA PRISTAN USSR 505 WAMA 506 NEPA USSR 507 CHARA USSR 508 PROBRAZHENKA USSR 516 ROMONOVKA 540 MANGUT 553 ZILOVO 561 NERCHINSK 562 NEVERS FRANCE 586 ROFJEI PAULOVICH 596 TYGDA	CHINA AREA SUPPLEMENTARY	2621			
GERMAN AREA SUPPLEMENTARY	1314	083 ISEERLOHN 112 HUSHUM 153 AURICH 157 WERDEN 367 WIESBADEN 760 MURICH/NEUBIBERG 811 TULLN	RUSSIA IN ASIA SUPPLEMENTARY AREA 8	2328	476 KHARINSK USSR 503 UBRDOVSKO 504 VORONTSOVSHAIA PRISTAN USSR 505 WAMA 506 NEPA USSR 507 CHARA USSR 508 PROBRAZHENKA USSR 516 ROMONOVKA 540 MANGUT 553 ZILOVO 561 NERCHINSK 562 NEVERS FRANCE 586 ROFJEI PAULOVICH 596 TYGDA	CHINA AREA SUPPLEMENTARY	2621			
FRANCE PRIMARY	1410	200 REIMS 203 BORDEAUX 204 BEAUAIS 205 CHERBOURG 206 CLERMONT FERRAND AULNA 207 DIJON LONGVIC 210 LYON BRON 213 LINDRES 215 LE BOURGET 216 PERPIGNAN 216 RENNES 219 STRASBOURG 220 BREST QUIPAVAS 221 TOULOUSE 222 TOURS 225 PAU 227 MONT DE MARSON 228 TRAPPES OBSERVATOIRE 231 MARSEILLE MARIGNANE 233 MONTELMAR 234 ROMILLY 236 ARBEVILLE 237 CHATELAIN 238 NANTES 242 ANGOULEME 243 ORLEANS 244 POITIERS 245 LE PUY EN VELAY 252 CHATEAUX 254 CHARTRES 258 ANGERS 262 ST QUENTIN 266 MILLAU 271 AUVERGNE 273 TOULON	RUSSIA IN ASIA SUPPLEMENTARY AREA 8	2328	476 KHARINSK USSR 503 UBRDOVSKO 504 VORONTSOVSHAIA PRISTAN USSR 505 WAMA 506 NEPA USSR 507 CHARA USSR 508 PROBRAZHENKA USSR 516 ROMONOVKA 540 MANGUT 553 ZILOVO 561 NERCHINSK 562 NEVERS FRANCE 586 ROFJEI PAULOVICH 596 TYGDA	CHINA AREA SUPPLEMENTARY	2621			
FRANCE SUPPLEMENTARY	1412	807 BOURGES 810 AIX EN PROVENCE 818 MONTPELLIER 855 LEZIGNAN FRANCE 862 NEVERS FRANCE 869 ST RAPHAEL FRANCE 901 LE MANS 928 AGEN 934 CHATILLON S SEINE FRANCE 944 MONT ST VINCENT	RUSSIA IN ASIA SUPPLEMENTARY AREA 8	2328	476 KHARINSK USSR 503 UBRDOVSKO 504 VORONTSOVSHAIA PRISTAN USSR 505 WAMA 506 NEPA USSR 507 CHARA USSR 508 PROBRAZHENKA USSR 516 ROMONOVKA 540 MANGUT 553 ZILOVO 561 NERCHINSK 562 NEVERS FRANCE 586 ROFJEI PAULOVICH 596 TYGDA	CHINA AREA SUPPLEMENTARY	2621			