Table 4 Directory of IERS stations.

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DOMES Number	SITE	CDP	IGS	DORIS	DESIGNATION
10002	GRASSE				
M003		7605			Mobile VLBI mark 1989
M004					Concrete Slab/ 25 mm brass mark
M006			GRAS		GPS Pillar/brass mark
M008					SELF 2 mark
M010			GRAC		Concrete Pillar with Brass antenna base/GLONASS Marker
S001		7835			SLR IAR
S002		7845			LLR IAR
S014				GRAA	DORIS Ant. Ref. Pt.
S016				GR2B	DORIS antenna ref. pt. (Starec type)
10003	TOULOUSE				
M003		7608			VLBI mark
M004			TOUL		TOUL IGS mark
M005					DORIS 1 mark
M006					DORIS 2 mark
M008					Cit de l'espace / Mark under the DORIS antenna
M009			TLSE		Mark on a terrace roof
S001				TLSA	DORIS 1 antenna ref. pt (Alcatel type)
S003				TLHA	DORIS 2 antenna ref. pt (Alcatel type)
S004				TCEB	Cit de l'espace / DORIS antenna ref. pt. (Starec type)
10004	BREST				
M002		7604			Mobile VLBI mark 1989
M003			BRSG		Stainless steel mark in concrete block
M004			BRST		Building terrace / SO corner /hemisheric bronze bolt
S001					DORIS Ant. Ref. Pt.
10011	SAINT-MICHEL DE PROVENCE				
M001			MICH		Pillar/Top of forced centring device
10020	CHIZE				
M001			CHIZ		Geodetic ground marker (hemispheric bronze bolt)
10023	LA ROCHELLE				
M001			LROC		Triangular centering plate / aluminium mast / concrete bunker terrace
10073	MARSEILLE				
M008			MARS		Tide gauge building s terrace / S corner /hemisheric bronze bolt
10077	AJACCIO				
M002		7848			Concrete Monument / Brass mark
M005			AJAC		Renforced concrete pillar/Top of forced centring device
S001				AJAB	DORIS antenna ref. pt. (Starec type)
S002				AJAB	DORIS antenna ref. pt. (Starec type)
10090	SAINT JEAN DES VIGNES				
M001			SJDV		Top of forced centring device
10091	LE MANS				
M001			MANS		Steel tube on the roof of the ESGT building
10092	MARNE LA VALLEE				
M001			MLVL		ENSG building/ hemisheric bronze bolt

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10093  VERON
 M001                    LRBA      Steel mast in reinforced concrete building

10094  SEVRES
 M001                    BIPD      Steel guard rail: engraved cross

10095  CADARACHE-GINASSERVIS
 M001                    GINA      Pillar/Top of forced centring device

10096  MODANE-AVRIEUX
 M001                    MODA      Pillar/Top of forced centring device

10097  MONTPELLIER
 M001                    MTPL      Pillar/Top of forced centring device

10098  LA FECLAZ
 M001                    FCLZ      Pillar/Top of forced centring device

10099  CHATEL
 M001                    CHTL      Pillar/Top of forced centring device

10101  COPENHAGUEN
 M003                    BUDP      Pillar / center hole of antenna mount device
                                   (1-13-829)
 M004                    DK01      1-13-821, Pillar with iron plate and punch
                                   mark with fixed steel tripod
 M005                    DK0A      1-13-001, Concrete plate in soil with a brass
                                   bolt
 S001                    BUDD      GPS Ant. Ref. Point

10106  HIRTSHALS
 M001                    DK02      54-05-834, Brass bolt on concrete pier

10112  HOVVIG
 S001                    HVIG      GPS Ant. Ref. Point

10113  SULDRUP
 M001                    SULD      Pillar / center hole of antenna mount device
                                   (61-10-802)

10114  SMIDSTRUP
 M001                    SMID      Pillar / center hole of antenna mount device
                                   (117-05-810)

10115  ESBJERG
 M001                    DK03      K-75-956, Brass bolt on concrete pier

10116  GEDSER
 M001                    DK04      Brass bolt on concrete pier

10117  THORSHAVN
 M001                    DK05      K-87-9035, Concrete plate with bronze sheet
                                   and polished steel bolt

10202  REYKJAVIK
 M001                    REYK      Univ/bolt GPS marker
 M002                              DORIS mark
 M003                    REYZ      GPS+GLONASS Marker/Bolt
 S001                         REYA DORIS antenna ref. pt (Alcatel type)
 S002                         REYB DORIS 2 antenna ref. pt. (Starec type)

10204  HOFN
 M001              7635            VLBI monument 1992/brass marker in bedrock
 M002                    HOFN      IFAG GPS monument/chimney pillar /steel plate
 M003                              Statens kartverk GPS monument / chimney
                                   pillar/steel plate
 M004                              PRARE monument/observation tower/concrete
                                   pillar
 M005                              EUREF monument/concrete pillar/brass marker
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10302  TROMSO
 M001                                Trig. point (N 5481)
 M002              7602              Mobile VLBI and SLR mark
 M003                   TROM         GPS marker TSS GPSM
 M004                                Mark TSS III
 M005                                Mark WMC2
 M006                   TRO1         Hole top center/horizontal top plate/steel
                                     tower/bedrock
 S001                                TI4100/L1 20-DEC-87 - 26-OCT-88
 S002                                TI4100/L1 28-OCT-88 - 07-NOV-88
 S003                                TI4100/L1 07-NOV-88 - 21-SEP-89
 S004                                TI4100/L1 21-SEP-89 - 17-JUL-90
 S006                                TI4100/L1 17-JUL-90 - 22-AUG-90
 S007                                ROGUE SNR-8/DM B/L1 28-MAY-90 - 30-JUN-90
 S008                                ROGUE SNR-8/DM B/L1 01-JUL-90 - 18-JUL-90
 S009                                ROGUE SNR-8/DM B/L1 18-JUL-90 -
 S010                        TROA    DORIS antenna ref. pt (Alcatel type)

10307  OSLO
 M001                   OSLO         BOLT IN SOLID ROCK

10317  NY-ALESUND
 M001                   NYAL         GPS Mark
 M003                   NYA1         Hole top center/horizontal top plate/steel
                                     tower/bedrock
 M004                                DORIS 1 mark (12 mm brass mark)
 M005                   NYAG         Brass Bolt / Concrete block / Steel tower
 M006                                DORIS 2 mark (12 mm domed brass mark)
 S001                                ROGUE SNR-8/DM B/L1 17-JAN-91
 S002                        SPIA    DORIS antenna ref. pt (Alcatel type)
 S003              7331              20 m VLBI antenna reference point
 S004                        SPIB    DORIS 2 antenna ref. pt. (Starec type)

10322  DOMEN
 M002                   VADR         BOLT IN SOLID ROCK

10325  HONEFOSS
 M001                   HONE         SK Tower GPS mark
 S001

10329  TRYSIL
 M001              7607              VLBI mark

10330  STAVANGER
 M001                   STAV         BOLT IN SOLID ROCK

10331  TRONDHEIM
 M001                   TRON         BOLT IN SOLID ROCK

10332  GiH Gjovik
 M001                   GJOV         Gjovik University College / Building B / Bolt
                                     of antenna mounting device / 5300

10402  ONSALA
 M003                                NLS Mark 761331 (S7331)
 M004                   ONSA         Mark 301 GPSM
 M005                                Mark 401
 M006              7211              Mobile VLBI mark 1992
 S001              7212              VLBI ref. pt. ONSALA85
 S002              7213              VLBI ref. pt. ONSALA60
 S011                                TI4100/L1 18-DEC-87 -23-JAN-91
 S012                                ASHTECH/L1 27-JAN-91 -20-MAY-91
 S013                                ROGUE SNR-8/DM B/L1 31-MAY-91

10403  KIRUNA
 M002                   KIRU         GPS mark

10405  MARTSBO
 M002                   MAR6         STAINLESS PLATE/PILLAR/BEDROCK
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 S005                              ASHTECH/L1 22-JAN-91 - 13-FEB-91

10422  KIRUNA/ESRANGE
 M001                    KIR0      STAINLESS PLATE/PILLAR/BEDROCK

10423  VISBY
 M001                    VIS0      STAINLESS PLATE/PILLAR/BEDROCK

10424  VILHELMINA
 M001                    VIL0      STAINLESS PLATE/PILLAR/BEDROCK

10425  BORAS
 M001                    SPTF      Concrete monument on bedrock / metal plate

10503  METSAHOVI
 M001                              Mark (SF 348)
 M002               7601           Mobile VLBI mark 1989
 M003                              24 m high bilby tower
 M004                              Upper bench mark (FGI) under the DORIS antenna
 M005                    METZ      STEEL MAST/Antenna mounting device
 M006                              FGI mark on a concrete block (DORIS 2)
 S001               7805           SLR IAR
 S009                              ASHTECH L-XII/L1 ??-MAY-91
 S010                              ROGUE SNR-8/DM B/L1 01-JAN-92
 S011                    METS      ROGUE SNR-8/DM B/Bottom of the choke ring
 S013                         META DORIS antenna ref. pt (Alcatel type)
 S014               7806           METLAS/ Fixed laser 7806 /IAR
 S015                         METB DORIS antenna ref. pt. (Starec type)

10511  VAASA
 M001                    VAAS      BOLT/TOP OF STEEL GRID MAST

10512  JOENSUU
 M001                    JOEN      BOLT/TOP OF STEEL GRID MAST

10513  SODANKYLA/PITTIOVAARA
 M001                    SODA      BOLT/TOP OF STEEL GRID MAST

10801  VILNIUS
 M001                    VLNS      Concrete block/Concrete pier/Steel plate with
                                   a forced centering hole

11001  GRAZ LUSTBUEHEL
 M001                              Mark (A171)
 M002                    GRAZ      GPS Mark
 M003                    GRAA      Alu tripod ground marker fixed on the roof of
                                   the observatory (GRAA 306-164)
 M004                    GRAB      Alu ground marker rod fixed on the roof of the
                                   observatory (GRAB 306-164)
 S002               7839           Fixed Laser / intersection of axes

11005  PFANDER
 M001                              A 102 BREGENZ PILLAR
 M002                              CENTRAL MARKER/BED ROCK/BRASS BOLT
 S002                    PFAN      MINI-ROGUE / DM B /ARP

11006  INNSBRUCK/HAFELEKAR
 M001                              HAFELEKAR/CENTRAL MARKER/BED ROCK/BRASS BOLT
 M002                    IBK1      Innsbruck Univ./Institut Fur Geodasie/Pillar
                                   on the flat roof
 S003                    HFLK      HAFELEKAR/MINI-ROGUE / DM B /ARP

11027  HUTBIEGL
 M002                    AT01      KT T73-21B1, Granite pillar with bolt (KT) and
                                   forced centering device

11028  REISSECK
 M001                              CENTRAL MARKER/BED ROCK/BRASS BOLT
 S001                    GRMS      MINI-ROGUE / DM B /ARP
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11029  PATSCHERKOFEL
 M001                              CENTRAL MARKER/BED ROCK/BRASS BOLT
 S001                       PATK   MINI-ROGUE / DM B /ARP

11030  MATTERSBURG
 M001                              Steel mast/station reference marker
 M002                       MTBG   Steel mast/IGEX marker

11031  GAISBERG/SALZBURG
 M001                              Brass bolt in bedrock/Central markeR 8-64
 S001                       SBGZ   GPS Trimble 4000SSI Antenna/ARP

11032  THOERL-MA
 M001                       AT03   KT 397-200A1, Granite pillar with bolt (KT)
                                   and forced centering device, set in bedrock

11033  LINZ
 S001                       LINZ   LEICA AT504 (ChokeRing) / ARP

11035  VIENNA
 S001                       WIEN   Trimble 4000SSI, Dorne Margolin antenna / AR

11036  VILLACH
 S001                       VLCH   Trimble 4000 SSI, Choke ring antenna / ARP

11037  ROTTENMANN
 S001                       RTMN   ASHTECH Z-18 (091049) Choke ring antenna / ARP

11038  KITZBUEHEL
 S001                       KTZB   ASHTECH uZ-12, Choke ring antenna / ARP

11039  HAUSER KAIBLING
 S001                       HKBL   LEICA SR520, Ckoke ring antenna / ARP

11040  VOELKERMARKT
 S001                       VLKM   LEICA SR250, Dorne Margolin antenna / ARP

11041  ST. POELTEN
 S001                       STPO   LEICA SR250, Choke ring antenna / ARP

11042  ZETTERSFELD/LIENZ
 S001                       LIEN   ASHTECH UZ-12, Choke ring antenna / ARP

11043  KRAHBERG
 S001                       KRBG   LEICA SR250, Choke ring antenna / ARP

11101  SOFIA
 M001              7505             SLR MARKER 7505
 M002                       SOFI   PILLAR ON THE FLAT-ROOF

11104  VARNA
 M001                       BG04   Pillar on base with screw bolt in brass plate
                                   on pillar top, with forced centring device

11106  BURGAS
 M001                       BG01   Concrete pillar with brass plate and screw
                                   bolt inserted into a concrete slab, with
                                   forced centring device

11206  PENC
 M006                       PENC   CONCRETE PILLAR ON THE ROOF OF THE MAIN
                                   BUILDING

11207  OROSHAZA
 M001                       OROS   GPS marker on a roof

11401  BUCAREST
 M001                       BUBC   University Roof/Survey marker on pillar

11502  PECNY/ONDREJOV
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M001			Geodetic Monument/EUREF GPS 0209 / #2207010
M002		GOPE	GEODYNAMICAL PILLAR/ROOF MAIN BUILDING
11503	BRNO		
M001		TUBO	Marker on pillar
11507	MODRA-PIESOK		
M001		MOPI	CONCRETE PILLAR/BEDROCK
11508	PREDNIPRICKA		
M001		CZ03	Geodetic Monument /EUREF GPS 0210 / EUVN CZ03 / #3524005
11510	CHRASTAVA		
M001		CZ01	Levelling bench mark/EUVN CZ01/Steel bolt on iron tube filled with concrete / CZ4-13.1
11511	KOTOUN		
M001		CZ02	Levelling bench mark/EUVN CZ02 / HM-0.1, Steel bolt on iron tube filled with concrete
11512	VRBATUV KOSTELEC		
M001		CZ04	Eeg-25, Bronze bolt with forced centring in special pillar
11513	KLET		
M001			Geodetic Mark /EUREF 0218/#40130285
11801	SARAJEVO		
S001		SRJV	Old chimney of institute building/Trimble 4000SSI/GPS ARP
11901	DUBROVNIK		
M001		DUBR	Marker in a steel-plate on a permanent steel-tripod
11902	OSIJEK		
M001		OSJE	Bolt-Marker on a steel-mast
11903	PULA		
M001			Geodetic Ground Marker / 187 PULA-E / (EUREF No. 0729)
S001		PULA	TRIMBLE 4000SSI / TRM29659.00 / ARP / URS3580
12108	LJUBLJANA		
M001		LJUB	GPS Marker
12204	JOZEFOSLAW-WARSAW		
M001		JOZE	Geodynamical Pillar
12205	BOROWIEC		
M002		BOR1	Geodynamical pillar on roof/main building
M004		BORG	Stable gedynamical concrete pillar on the roof of the main building/GPS+GLONASS
S001	7811		SLR IAR
12207	BOROWA GORA		
M002		BOGO	PILLAR/ROOF OBSERVATORY MAIN BUILDING
M003		BOGI	Concrete pillar covered with wooden casing, on the top of the pillar brass plate with centring device
12209	LAMKOWKO		
M001		LAM0	Concret Pillar
12217	WROCLAW		
M001		WROC	PILLAR/ROOF MOUNT
12301	UZHGOROD		
M001		UZHL	Laboratory for Space Research/roof of the main

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                                  office/Top of steel pillar

12302  RIGA
 M001              7560           SLR mark
 M002                   RIGA      CONCRETE MONOLITH 10371
 S002              1884           SLR IAR
 S006              1885           FIXED LASER /ULISS CDP 1885

12309  MENDELEEVO
 M001                   MDVO      Roof/1 m square metallic plate
 M002                   MDVO      ROOF/2ND GPS MARKER
 M003                   MDVG      Pillar on the main building roof
 M004                   MDVZ      Roof/Pillar
 M005                   MDVJ      Stable geodynamical pillar on the roof  main
                                  building
 S001              1870           MENLAS / SAZHEN-2 / INTERSECTION OF AXES
 S003              1874           GRAN SLR system/intersection of axes

12312  YEREVAN
 M001                   NSSP      5/8-inch bolt set in a concrete pillar

12313  IRKOUTSK
 M001                   IRKT      2-3M PILLAR
 M002                   IRKG      West GPS/GLONASS Geodynamical Pillar
 M003                   IRKZ      Roof Briks Monument

12319  NOVOSSIBIRSK
 M001                   NVSK      GPS Marker

12329  YUZHNO-SAKHALINSK
 M002                             DORIS mark
 M003                   YSSK      Institute of Marine Geology and Geophysics/
                                  Roof/ Top of 5/8-11" diameter vertical rod
 S001                        SAKA DORIS antenna ref. pt (Alcatel type)

12330  ZWENIGOROD
 M001                   ZWEN      Roof main building/GPS pillar
 M002                   ZWEG      Roof main building/GLONASS pillar

12334  KITAB
 M001                   KIT3      Thread mark in rock
 M002                             DORIS mark
 M003                             DORIS concrete pillar (ex-PRARE) : top of bolt
 S004                        KITA DORIS 1 antenna ref. pt. (Alcatel type)
 S005                        KITB DORIS 2 antenna ref. pt. (Starec type)
 S006                        KIUB DORIS 3 antenna ref. pt. (Starec type)

12335  NIKOLAIEV
 M001                   MIKL      Top of mark of concrete pillar on the roof of
                                  main office

12336  POLTAVA
 M001                   POLV      Top of steel pillar located on the roof of the
                                  main office of the Poltava Gravimetrical
                                  Observatory

12337  SIMEIS
 M001              7561           Simeis SLR mark
 S003              1873           Simeis fixed SLR IAR
 S006              1893           Katzively Crimea fixed SLR IAR
 S008              7332           22 m AZ-EL Paraboloidal Radiotelescope Ref.
                                  pt.

12338  BADARY
 M001                             Hole in aluminium plate (DORIS mark)
 S001                        BADA DORIS antenna ref. pt (Alcatel type)

12339  PARAMUSHIR (ILES KOURILES)
 S001                        PASB DORIS Ant. Ref. Pt.
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12340  MAIDANAK
 S001              1863           MDN. FIXED LASER 1863
 S002              1864           MDN2. FIXED LASER 1864

12341  KOMSOMOLSK-NA-AMURE
 S001              1868           KOM. FIXED LASER 1868

12342  USSURIISK
 S001              7247           70 m VLBI antenna ref. pt.

12343  BALKHASH
 S001              1869           Balkhash fixed laser

12344  EVPATORIA
 S001              1867           EVP. FIXED LASER 1867

12347  DUNAOVCY
 S001              1866           Dun. Fixed SLR system

12348  POLIGAN/BISHKEK
 M001                    POL2      14 CM DIAMETER PIPE/PLATE

12349  KRASNOYARSK
 M001                              DORIS mark on a terrace
 M002                    KSTU      Concrete pillar / threaded mark
 S001                         KRAB DORIS antenna ref. pt. (Starec type)

12350  SVETLOE
 M001                    SVTL      ROOF/STAINLESS PLATE/CONCRETE PEDESTAL
 M002                              Ground pillar 102
 M003                    SVT3      Bronze mark 103 on the roof of the laboratory
                                   building
 S001              7380            Intersection of axes of a permanent VLBI
                                   antenna

12351  ZELENCHUKSKAYA
 M001                    ZECK      BOLT/PILLAR/OBSERVATION TOWER
 S001              7381            Intersection of axes of a permanent VLBI
                                   antenna

12352  SELEZASCHITA
 M001                    SELE      Top of metallic tube (4m height 0.12m
                                   diameter)

12353  YAKUTSK
 M001                    YAKA      Top of 5/8-11" diameter stainless steel rod
 M002                    YAKT      Top of 5/8-11" diameter stainless steel rod

12354  MAGADAN
 M001                    MAGO      Top of 5/8-11" diameter stainless steel rod

12355  PETROPAVLOVSK-KAMCHATKA
 M001                    PETR      Top of 5/8-11" diameter stainless steel rod
 M002                    PETP      Top of 15.5-mm diameter vertical brass rod

12356  GOLOSIIV - KIEV
 M001                    GLSV      Top of steel pillar on the roof of the main
                                   office
 S001              1824            Intersection of axes of a permanent SLR
                                   instrument

12357  SARAPUL
 S001              1871            SARLAS/fixed laser/IAR

12358  BISHKEK
 M001                    BISH      GFZ GPS MARK
 M002                    BISZ      Top of metal sheet on a concrete tube
                                   /GPS+GLONASS marker

12359  KOROLEV
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 M001                    CNS1      Steel mast

12360  TIXI
 M001                    TIXI      Punched center of top surface of 5/8-11"
                                   diameter, vertical stainless steel rod

12361  KHABAROVSK
 M001                    KHAB      East GPS/GLONASS Geodynamical Mark

12362  ARTI
 M001                    ARTU      Arti Geophysical Observatory/ Roof/ Top of
                                   5/8-11" diameter vertical rod

12363  BILIBINO
 M001                    BILI      Punched center on top of 5/8-11" diameter
                                   vertical rod

12364  NORILSK
 M001                    NRIL      Punched center on top of 5/8-11" diameter
                                   vertical rod

12365  OBNINSK
 M001                    MOBN      Roof / Punched center on top surface of
                                   5/8-11" diameter, vertical stainless steel rod

12366  LVIV
 M001                    SULP      Lviv Polytechnic / Fundamental astronomical
                                   monument / Pillar

12367  NOVOSIBIRSK, SNIIM
 M001                    NOVJ      Stable geodynamical pillar on the roof  main
                                   building

12368  BRJUHOVYCHI
 S001              1831            Intersection of axes of a permanent SLR
                                   instrument

12602  DIONYSOS
 M001                              Central Pillar
 M002              7515            Mark SLR Standard WEGENER disk
 M003                              DORIS mark
 M004                    DION      EUVN GPS Marker (unknown description)
 S001              7940            SLR IAR
 S011                         DIOA DORIS antenna ref. pt (Alcatel type)

12612  ASKITES
 M001              7510            Mark SLR 7510

12613  ROUMELLI
 M001              7517            Mark SLR 7517

12614  KARITSA
 M001              7520            Mark SLR 7520

12615  KATAVIA
 M001              7512            Mark SLR 7512

12616  XRISOKALARIA
 M001              7525            Mark SLR 7525

12617  CHANIA
 M001                    SBT1      Souda Bay Naval Base/Top of tide gauge shack
 S001                    TUC1      Leica CRS1000/ARP

12706  LAMPEDUSA
 M001              7544            Mark SLR 7544
 M002                    LAMP      GPS Marker

12711  MEDICINA
 M001                              Pillar
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 M002             7546          Mark SLR 7546
 M003                  MEDI     PILLAR MARKER R
 S001             7230          Radiotelescope ref. pt.

12712  GENOVA
 M002                  GENO     Stable pillar on the roof

12717  NOTO
 M001             7543          Mark SLR
 M002                           BOLT GPS EUREF 89 (G)
 M003                  NOTO     PILLAR MARKER R
 M004                  NOT1     Stable pillar on the ground
 S001             7547          Radiotelescope ref. pt.

12718  TRIESTE
 M001                           Mark (I 400130)
 M002             7550          Mark SLR 7550

12721  ELBA ISLAND
 M002                  ELBA     One meter stable pillar on the rock

12724  TORINO I
 M002                  TORI     GPS Marker "1"
 S001                  IENG     ASHTECH Z-XII3T / ARP

12725  CAGLIARI
 M001                           ILS Mark (I 234165)
 M002             7545          Mark SLR 7545
 M003                  CAGL     PILLAR MARKER G
 M004                  CAGZ     1.5 meter ground stable pillar
 S013             7548          Fixed SLR system

12734  MATERA
 M001                           Mark (I 201130)
 M004             7541          Mark SLR 7541 "C"
 M005             7540          Mark SLR 7540 "B"
 M007                           Roof GPS Mark
 M008                  MATE     Pole (CIGNET GPS mark)
 M009                  MAT1     0.4 meter stable pillar on the roof
 S001             7939          SLR IAR
 S005             7243          Fixed VLBI antenna
 S006                           ROGUE SNR-8/DM B/L1 22-JAN-91
 S007                           ROGUE SNR-8/DM B/L1 16-APR-91
 S008             7941          Intersection of alt-az axes of the 1.5 m
                                SLR/LLR telescope

12741  VENEZIA
 M001                  VENE     METALLIC PILAR ON THE ROOF

12749  MONTE VENDA
 M001             7542          SLR mark

12750  PADOVA
 M001                  UPAD     Concrete pillar
 M002                  UPAD     Screw under plastic mast
 S001                  PADO     TRIMBLE 4000SSI Antenna / Bottom of Chocke
                                Ring

12751  BOLZANO
 M001                  BZRG     Stable metallic pillar on the roof (local nb.
                                909)

12752  PERUGIA
 M001                  UNPG     Stable pillar "A" on the roof

12753  TRENTO
 M001                  TREN     Pilaster placed on the roof of a building made
                                of reinforced concrete (Palazzo Giulia)

12754  CAMERINO
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 M001                   CAME      One meter stable pillar

12755  REGGIO CALABRIA
 M001                   TRGC      One meter stable pillar on the roof

12756  FERRARA
 M001                   UNFE      0.4 meter stable metallic pillar on the roof

12757  L AQUILA
 M001                   AQUI      Roof / 0.5 meter stable metallic pillar

12758  TRAPANI-MILO
 M001                   MILO      1.5 meter stable pillar on the ground

12759  NOVARA COMUNE
 M001                   NOVA      2.5 meter steel pillar (pole) on the roof

12760  PRATO
 M001                   PRAT      1.5 m stable pillar on the roof of PIN

12761  MILANO-CAMPUS COMO
 M001                   COMO      0.9 meter stable pillar on the roof

13101  BRUSSELS
 M004                   BRUS      GPS ASTROLAB/OLD ASTROLAB OBSERVATION DOMEE
 M005                   BRUG      STEEL PLATE

13104  OSTENDE
 M002                   BE01      12B14R3, Metal support with plate over a small
                                  pillar with inserted bolt on building roof

13112  DENTERGEM
 M001                   DENT      PILLAR (EUREF # 0705)

13113  DOURBES
 M001                   DOUR      PILLAR (EUREF # 0708)

13114  WAREMME
 M001                   WARE      PILLAR (EUREF # 0706)

13201  BARTON STACEY/CHILBOLTON
 S002              7215           25m radiotelescope ref. pt.

13205  CARLISLE
 S001                   CARL      LEIAT504 / ARP

13206  CARMARTHEN
 S001                   CARM      LEIAT504 / ARP

13207  COLCHESTER
 S001                   COLC      LEIAT504 / ARP

13208  DARESBURY
 S001                   DARE      LEIAT504 / ARP

13209  DROITWICH
 S001                   DROI      ASH700936E / ARP

13212  HERSTMONCEUX
 M002                             Primary pillar (GB 481)
 M005                             Solar pillar
 M007                   HERS      GPS reference mark
 M009                   HERP      PRARE Steel Pillar
 S001              7840           SLR IAR
 S012                             ROGUE SNR-8A/DM B/L1 04-SEP-91-

13213  GREAT YARMOUTH
 S001                   GTY1      GPS Trimble 4000 SSE ARP
 S002                   GTY2      GLONASS Ashtech GG24 ARP
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13214  GUILDFORD
 M001                    SIGL      BRASS PLATE

13215  LEEDS
 M001                    LDS1      STAINLESS STEEL/BRASS PLATE
 M002                              Geodetic ground marker / IGLOS_01
 S001                    LEED      ASH700936E / ARP

13216  North Shields Tide Gauge
 S001                    NSTG      GPS Choke Ring Antenna ARP

13217  EDINBURGH
 S001                    EDIN      LEIAT504 / ARP

13219  GLASGOW
 S001                    GLAS      LEIAT504 / ARP

13220  NOTTINGHAM
 S001                    IESG      ASH700936D M / ARP
 S002                    NOTT      ASH700936E / ARP

13221  INVERNESS
 S001                    INVE      ASH700936E / ARP

13222  ISLE OF MAN NORTH
 S001                    IOMN      LEIAT504 / ARP

13224  ISLE OF MAN SOUTH
 S001                    IOMS      LEIAT504 / ARP

13225  KING LYNN
 S001                    KING      ASH700936E / ARP

13226  MALLAIG
 S001                    MALG      LEIAT504 / ARP

13227  NEWCASTLE
 S001                    NEWC      ASH700936E / ARP

13228  NORTHHAMPTON
 S001                    NORT      ASH700936E / ARP

13229  PLYMOUTH
 S001                    PLYM      LEIAT504 / ARP

13230  THURSO
 S001                    THUR      LEIAT504 / ARP

13234  TEDDINGTON
 M001                    NPLC      NPL Building 2/South East corner/Top of
                                   Aluminium pole
 M002                    NPLB      NPL Building 2/North East corner//Top of
                                   Aluminium pole
 M003                    NPLD      Building 2/NE corner of liftshaft roof /
                                   Centre of top of bolt through steel railing
 M004                    NPLE      NPL Building 2/centre of South side of
                                   liftshaft roof / Centre of top of bolt through
                                   steel railing
 M005                    NPLF      NW corner of liftshaft roof, Building 2/Steel
                                   railing/ Center of top bolt

13235  HERMITAGE
 S001                    ENGL      NIMA GPS antenna ASH700936B_M 1123 / ARP

13274  SOUTHAMPTON
 S002                    OSHQ      ASH700936E / ARP

13296  BUDDON - CARNUSTY
 M002              7603            Mobile VLBI mark 1989
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13299  MORPETH
 S001                    MORP      INTERSECTION OF THE VERTICAL AXIS FROM THE
                                   HORIZONTAL BENCHMARK (FORCED CENTRING PLATE)
                                   WITH THE HORIZONTAL PLANE TANGENT TO THE
                                   HEIGHT BENCHMARK (VERTICAL BOLT)

13402  SAN FERNANDO
 M004                    SFER      TOP OF TOWER/GPS MARKER
 S004               7824           Old SLR system (until April 1999)
 S006                    ROAH      AOAD/M_T GPS Antenna Reference Point
 S007               7824           SLR Fixed System / New position April 1999 /
                                   intersection of axes

13406  VILLAFRANCA
 M001                    VILL      ESA GPS marker

13407  MADRID-ROBLEDO
 S001               1563           64m antenna DSS63
 S003               1561           26(34) antenna DSS61
 S010               1565           34m antenna DSS65
 S011                              ROGUE SNR-8/DM R/L1 21-MAR-90
 S012                    MADR      ROGUE SNR-8/DM R/Bottom of the choke ring
                                   21-MAR-90
 S013                              ROGUE SNR-8/DM R/Top of the choke ring
                                   21-MAR-90

13410  ROQUETES - TORTOSA
 M001                    EBRE      Geodetic Pillar

13411  MADRID-FACULTAD
 S001                              TRIMBLE 4000SLD/L1 22-JAN-91 - 13-FEB-91

13420  YEBES
 M001                    YEBE      Reinforced concrete pillar/roof of the Centro
                                   Astronomico de Yebes (53602)
 S001               7333           14M RADIOTELESCOPE

13431  BELLMUNT DE SEGARRA
 M001                    BELL      4.5 m concrete pillar with forced centering

13432  CAP DE CREUS
 M001                    CREU      3m concrete pillar with forced centering

13433  ALICANTE
 M001                    ALAC      Metallic plate/Concrete pillar/Roof of the IGN
                                   tide gauge building (87201)

13434  A CORUNA
 M001                    ACOR      Metallic plate/Concrete pillar/Roof of the IGN
                                   tide gauge building (2101)

13435  ESCORNACRABES
 M001                    ESCO      3m concrete pillar with forced centering
                                   device

13436  LLIVIA
 M001                    LLIV      3.5m concrete pillar with forced centering
                                   device

13437  ALMERIA
 M001                    ALME      Reinforced concrete pillar on the top of the
                                   roof of the Observatorio Geofisico de Almeria
                                   (105901)

13438  CANTABRIA
 M001                    CANT      Reinforced concrete pillar on the top of the
                                   roof of the Universidad de Cantabria  (3502)

13439  VALENCIA
 M001                    VALE      Reinforced concrete pillar on the top of the
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			roof of the Universidad Politecnica de Valencia (72268)
13440	LES AVELLANES		
M001		AVEL	3m concrete pillar with forced centering device (255102001)
13441	MONTCADA		
M001		MNTC	concrete base with forced centering device (290121001)
13442	LES PLANES		
M001		PLAN	4m concrete pillar with forced centering device (285124002)
13443	MALAGA		
M001		MALA	Brass plate on reinforced concrete pillar on the top terrace of the Observatorio Geofisico de Malaga (E-105324)
13444	PALMA DE MALLORCA		
M001		MALL	Brass plate with bolt to fix the antenna on reinforced concrete pillar on the top of the roof of the Centro Oceanografico de Palma (E-069801)
13445	MADRID UPM-EUITT		
M001		MERC	Roof of EUITT/1m reinforced concrete pillar / Metallic plate with 3/8" centering bolt
13446	SONSECA		
M001		SONS	Reinforced concrete pillar on roof of the Sismological Center of Sonseca (65761)
13447	CACERES		
M001		CACE	Reinforced concrete pillar on the top of the roof of the Universidad Politecnica de Caceres (70459)
13448	LA RIOJA		
M001		RIOJ	Reinforced concrete block blasted tower on bedrock (20401)
13449	CEUTA		
M001		CEUT	CEUTA Port Authority building roof / Reinforced concrete pillar (1078B)
13450	VIGO		
M001		VIGO	Reinforced concrete pillar on roof of the building of Spanish Oceanographic Institute of Vigo
13451	HUELVA		
M001		HUEL	Huelvas Politechnical University / Roof / Reinforced concrete pillar
13452	ALBACETE		
M001		ALBA	Reinforced concrete block blasted tower on the roof of the Castilla-La Mancha University
13502	DELFT		
M002			GPS EUREF 89 (MARK # 18)
M003			GPS MARK # 15
M004		DELF	GPS MARK # 16
M005			GPS MARK # 19
M006		DLFT	GPS MARK # 20
M007			GPS MARK # 21
M008		VSLD	Van Swinden Laboratorium/Marker on steel mast on top of elevator housing of building entrance T

M009				GPS MARK # 02
M010				GPS MARK # 04
13504	KOOTWIJK			
M001				Perm. mark 1980
M002		8833		Monument MTLRS 1984
M003			KOSG	GPS mark 339334-25
S001		7833		SLR IAR (NL 233)
S013				ROGUE SNR-8/DM B/L1 20-JAN-91
13506	WESTERBORK			
M005			WSRT	TOP OF MAST (MARK #01)/RD 179811/NAP 0A-262
13510	APELDOORN			
M001			APEL	Top of 14 store building / survey marker (01) / RD 339347
13533	EIJSDEN			
M001			EIJS	TOP OF MAST (MARK #1)/RD 610326/NAP 61H002
13534	TERSCHELLING			
M001			TERS	TOP OF MAST (MARK #01)/RD 059306/NAP 0A-403
13902	PORTO			
M001			GAIA	Astronomical Observatory / concrete pillar / metalic structure
13903	LAGOS			
M001			LAGO	17th century fort/metal structure
13909	CASCAIS			
S001			CASC	LEICA SR9500/GPS ANTENNA: AT303/ARP
13910	LISBOA			
S001			OALN	GPS ARP / Ashtech Z-XII3 # 5555-1122A0 / DORNE MARGOLIN ASH
14001	ZIMMERWALD			
M001				Brass mark in a concrete monument (CH 99)
M002			ZIMA	DOPPLER Mark (DOP80) on top of an aluminium tube on the roof of the observatory. Removed Oct 1998. Replaced by GPS98.
M003				Steel tube on the roof of the observatory (GPS87)
M004			ZIMM	GPS Marker on top of a 9m mast (L+T88)
M005			ZIMZ	Steel tube on the roof of the obervatory (GPS97)
M006			ZIMJ	Eccentric mount on steel tube (GPS87) on the roof of the observatory (GPS87E)
M007				Steel tube on the roof of the observatory (GPS98). Installed Oct 1998. Replaces DOP80.
S001		7810		Fixed Laser / intersection of axes
S007		7810		New Laser Telescope (ZIMLAT) /intersection of axis
14005	MONTE GENEROSO			
M001				Mark (CH 65)
M002		7590		SLR Mark
14006	CHRISCHONA			
M002			CH01	1047.700, Concrete block with screw bolt
14007	LA DOLE			
M002			CH03	La Grivine / 1260.800
14009	BOURG_SAINT PIERRE			
M001			CH02	1345.700
14010	OBERALP			
M001			CH04	1232.200

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14011  SIBLINGEN
 M001                    CH05      1031.366

14012  STABIO
 M001                    CH06      1373.425, Bolt in rock

14013  ZERNEZ
 M001                    CH07      1218.400

14106  POTSDAM
 M001                              Pillar tour Helmert
 M003                    POTS      Geodetic pillar N-E / building A17
 S001              1181            SLR IAR
 S009              7836            POTLAS / intersection of axes

14108  DRESDEN
 M001                    DRES      GPS Geodetic Marker/roof-platform/Tech. Univ.
 M002                    DREJ      Survey Marker on Mast-Platform / Roof /
                                   Geodetic Institute / Tech. Univ.

14201  WETTZELL
 M001                              Astro. Pillar
 M002                              Trig. Point (D6843)
 M003              7595            SLR and GPS mark
 M004              7596            SLR mark
 M005              7597            SLR mark
 M006              7598            SLR and GPS (ROGUE) mark
 M007              7599            SLR mark
 M008                              Mark 1000 (bottom TI4100 12-NOV-90 -
                                   27-JUL-89)
 M009                    WETT      GPS mark 1200/top of tower
 M010                    WTZR      Pillar 1202
 M011                    WTZT      PILLAR 1201
 M012                    WTZG      PILLAR 1203
 M013                    WTZA      PILLAR 1204
 M014                              PILLAR 1205
 M200              7594            Marker at TIGO-platform for the
                                   TIGO-SLR-telescope.
 S002              7834            SLR IAR
 S004              7224            VLBI Ref. Point
 S013                              TI4100/L1 12-NOV-87 - 27-JUL-89
 S016                              MINI MAC/L1 23-MAY-89 -
 S017                              ROGUE SNR-800/DM B/L1 20-DEC-90
 S018              8834            SLR WLRS IAR
 S019                              ROGUE SNR-800/DM B/L1 22-JUL-91-
 S020                              ROGUE SNR-800/DM B/Bottom of the choke ring
                                   22-JUL-91-
 S100              7593            Intersection of the axis of the TIGO-VLBI
                                   radiotelescope.

14202  HOHENBUNSTORF
 M002              7600            Mobile VLBI mark 1989
 M003                    HOBU      Marker on GPS Pillar

14208  OBERPFAFFENHOFEN
 M001                    OBER      STEEL PILLAR/ROOF/DLR/D-PAF BUILDING
 M002                    DLRA      Universal antenna mount/centre of top plate
 M003                    OBE2      STEEL PILLAR/ROOF/DLR/D-PAF BUILDING
 M004                    OBET      Center of the nail G01 in the parapet on the
                                   roof of the building #102 of DLR-OP

14209  EFFELSBERG
 M001                              Control network mark
 M002                    EFBG      Bolt on the antenna mast, screw anchored to
                                   the roof and the wall of the building across
                                   the radiotelescope
 S001              7203            100m radiotelescope ref. pt.

14213  HOHENPEISSENBERG
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 M002             7630          Mobile VLBI mark 1992

14214  KLOPPENHEIM
 M002                  KLOP     Pillar with bolt

14216  KARLSRUHE
 M001                  KARL     PLATE & BOLT/SURVEY TOWER/TECHNICAL UNIVERSITY

14234  BRAUNSCHWEIG
 M001                  PTBB     Marker on roof-platform

14258  EUSKIRCHEN
 M002                  DE04     MARK EUREF D93 / Pillar with lightkeepers bolt
                                and forced centring device
 M003                  EUSK     GPS Geodetic Marker/roof-platform/Mainbuilding

14260  KARLSBURG
 M001             7632          Mobile VLBI mark 1992

14261  KIRSCHBERG
 M001             7631          Mobile VLBI mark 1992

14262  NEUBIBERG
 M001                  BLVA     Concrete pillar on roof top of BLVA
                                building/DREF No. 64

14263  NEUSTRELITZ
 M001                  NTZ1     Pillar North-East on building 202
 M002                  NTZ3     Pillar South-West on building 202

14264  HELGOLAND ISLAND
 M001                  HELG     Survey mast-platform with marker

14265  DAUN
 M001                  DAUN     Marker on roof-platform

14266  ERLANGEN
 M001                  ERLA     Marker on roof-platform

14267  LEIPZIG
 M001                  LEIP     Marker on roof-platform

14268  BORKUM
 M001                  BORK     Rivet thread on a circular tube of steel

14269  FLECHTING
 M001                  DE01     TP3633006100 = NivP 3633901510, bolt on top of
                                granite pillar

14270  BRONNZELL
 M001                  DE02     00426, Granite pillar

14271  CUXHAVEN
 M001                  DE03     2118-9-9000, Concrete pillar with centring
                                plate

14272  HONAU
 M001                  DE05     752105408, Granite pillar with bolt

14273  NIEDERWEILER
 M001                  DE06     6009001310, TP-pillar with brass bolt over
                                TP-plate

14274  MEERANE
 M001                  DE07     51401599, Granite Niv-pillar with lightkeepers
                                bolt on top

14275  SCHERNFELD
 M001                  DE08     TP-plate with centric ceramic marker, marked
                                0.7 m deep
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14276  WALLENHORST
 M001                    DE09      3614/551, Granite plate with brass bolt

14277  WARNEMUENDE
 M001                    DE10      Steel plate with screw bolt on jamb wall of
                                   the roof

14278  TITZ-JACKERATH
 M001                    TITZ      Marker on a Steel tripod fixed on a
                                   concrete-platform

14279  FRANKFURT
 M001                    FFMJ      Survey Marker on Mast-Platform / Roof / BKG

14280  HUEGELHEIM
 M001                    HUEG      Survey Marker on Mast-Platform / Roof / Gas
                                   compressor station

14302  NICOSIA-ATHALASSA
 M001                    NICO      BOLT ON PILLAR

14303  LARNAKA
 M001                    CY01      Metal pipe filled with concrete and bolted on
                                   concrete foundation

14501  LJUBLJANA
 M001                    GSR1      1.5 m high 6x6 cm stainless steel pillar /
                                   roof of a building at Litijska cesta 45

15601  OHRID
 M001                    ORID      Marker on pillar

20101  RIYADH
 S001              7832            FIXED LASER / SALRO

20403  MASHHAD
 M001                    MASH      Geodetic Ground Mark

20404  TEHERAN II
 M001                    TEHR      Geodetic Ground Mark

20405  CHAH BAHAR
 M001                    CHAB      Geodetic Ground Mark

20406  TORBAT-E-HEYDARIYEH
 M001                    KASH      Geodetic Ground Mark
 M002                    YAS1      Yas / Concrete pillar

20407  DREZFUL
 M001                    NILO      Nilofar / Concrete pillar

20408  BANDAR-E-BUSHEHR
 M001                    REIH      Reihaneh / Concrete pillar

20409  YAZD
 M001                    ROSE      Rose / Concrete pillar

20410  ZABOL
 M001                    ZABO      Geodetic Ground Mark

20702  BAR GIYYORA
 M001              7530            SLR mark 7530
 M002                    BARG      GPS Mark
 S001              7530            MOBLAS-2

20703  MITZPE RAMON
 S001                    RAMO      ASHTECH Choke Ring 700936/ARP

20704  TEL AVIV
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 M001                    TELA      5/8" hole in a metal device

20705  HAIFA
 M001                    BSHM      5/8" hole in a metal device

20706  ELAT
 M001                    ELAT      Screw in a metal device inside antenna, .011 m
                                   above antenna bottom

20707  KATZRIN
 M001                    KATZ      Screw in a metal device inside antenna, .011 m
                                   above antenna bottom

20708  MAALE GILBOA
 S001                    GILB      Antenna - ASH700936D_M   SNOW (SN CR15923) /
                                   BPA

20709  KIBUTZ KABRI
 S001                    KABR      Antenna - ASH700936D_M    SNOW (SN CR15924) /
                                   BPA

20710  METZOKI DRAGOT
 S001                    DRAG      GPS Antenna - ASH700936D_M CR14346 / BPA

20711  KIBUTZ EL-ROM
 S001                    ELRO      Bottom of pre-amplifier of GPS antenna
                                   ASH700936D_M /CR520000101

20712  KIBUTZ LAHAV
 S001                    LHAV      GPS Antenna - ASH701945C_M  SNOW/BAP

20801  DIYARBAKIR
 M001              7575            Mark SLR
 M002                    DYR2      UNAVCO leveling mount screwed onto threaded
                                   metal pin cemented into the roof

20802  YOZGAT
 M001              7585            Mark SLR

20803  MELENGICLICK
 M001              7580            Mark SLR

20804  YIGILCA
 M001              7587            Mark SLR

20805  ANKARA
 M001              7589            SLR mark 1993
 M002                    ANKR      GPS Pillar

20806  GEBZE
 M001                    TUBI      2m Pillar in bedrock

20807  ISTANBUL
 M001                    ISTA      Roof of the technical university/Survey Marker
                                   on a pillar

20808  TRABZON
 M001                    TRAB      Roof of the technical university/Survey Marker
                                   on a pillar

20809  MENTES
 M001                    MENT      Concrete Pillar

20810  BODRUM
 M001                    BODR      Geodetic Ground Marker Drilled on Concrete

20811  ERDEK
 M001                    ERDK      Geodetic Ground Marker Drilled on Concrete

20812  ANTALYA
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 M001                   ANTG      Geodetic Ground Marker Drilled on Concrete

21501  EVEREST
 M001                             DORIS mark
 S001                        EVEB DORIS antenna ref. pt. (Starec type)

21601  BEIJING
 M001                   BJFS      Concrete on the bedrock/Bench mark
 M002              7343           Concrete monument
 S004              7249           BEIJ fixed SLR system

21602  WUHAN
 M001                   WUHN      GPS mark
 S003              7236           Wuhan fixed laser
 S004              7231           Wuhan fixed laser (new location of 7236) /
                                  intersection of axes

21604  PURPLE MOUNTAIN
 M002                             DORIS mark
 S003                        PURA DORIS antenna ref. pt (Alcatel type)

21605  SHANGHAI
 M001                             Mark connect with bedrock
 M002                   SHAO      GPS marker JPL 4027-S
 S001              7837           SLR IAR
 S008              7226           VLBI 6m radiotelescope ref. pt.
 S009              7227           VLBI 25m antenna ref. pt.

21609  KUNMING
 M001                   KUNM      Brass pin cemented into concrete pillar
 S002              7820           YSLR01 / intersection of axes

21611  CHANGCHUN
 M001                   CC06      Geodetic Ground Mark
 S001              7237           CHALAS / intersection of axes

21612  URUMQI
 M001                   URUM      Geodetic pillar
 M002              7355           SLR PILLAR
 M003                   GUAO      Marker on the top of concrete pier
 S001              7330           25 m VLBI antenna reference point

21613  LHASA
 M001                   LHAS      GPS PILLAR / BOLT LS 12
 M002                   LHAZ      GPS/GLONASS pillar with bolt
 M003              7356           Pillar

21614  SHAANXI
 M001                   XIAN      GPS MARK JPL 3233-S

21615  PEIJIAKONG/XIAN
 M001                   PJKG      GPS/GLONASS PILLAR

21701  KASHIMA
 M001                             Metal station mark (Denken 1)
 M002              7335           SLR geodetic ground marker
 S001              1856           26m VLBI antenna
 S004              1857           34m VLBI antenna
 S006              7334           Steerable 11m Cassegrain VLBI
                                  antenna/intersection of axes
 S007                             Ashtech Z-XII with GEODETIC L1/L2 antenna/ARP

21702  MIZUSAWA
 M001              7314           Mobile VLBI marker
 M002                   MIZU      Concrete pilar / Building Roof
 S009              7314           Mobile VLBI
 S010              7324           10-m VLBI antenna/AZ-EL (MIZNAO10)
 S011                   MZSW      ASHTECH Z-XII3/Rev.D(70718)/ARP 23-MAR-1996
                                  (940029)
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21704  KOGANEI
 M001              7328           SLR geodetic ground marker
 M002                             10cm squared concrete base with nonprecise
                                  cross hair/M20-VLBI-S
 S002              7308           SLR CRLLAS IAR
 S004              7327           Steerable 11m Cassegrain VLBI
                                  antenna/intersection of axes
 S005                             Ashtech Z-XII with GEODETIC L1/L2 antenna/ARP
 S006                             Ashtech Choke Ring Antenna / SN 701933-02
                                  REV.A CRN21999080101 / ARP

21705  DODAIRA
 S001              7935           DDR Fixed SLR system

21709  OKINAWA
 S001              7301           SLR IAR HTLRS-1

21715  KAINAN
 M001              7350           Mobile VLBI marker / 8cm metal marker
 S001              7350           KAINAN  5m VLBI antenna Ref. Pt.

21718  MIYAZAKI
 S001              7312           5m mobile VLBI

21725  NOBEYAMA
 S001              7244           6m VLBI antenna ref. pt.

21726  SIMOSATO
 M001                             Stone marker
 M002              7838           SLR mark (center of the ring of the base pier)
 S001              7838           SLR IAR fixed

21729  USUDA
 M001                             GPS mark Control RM roof
 S001              7246           64M VLBI antenna IAR
 S002                             ROGUE SNR-8/DM R/L1 29-JAN-91/09-AUG-92
 S003                   USUD      ROGUE SNR-8/DM R/Bottom of the choke ring
                                  29-JAN-91/09-AUG-92
 S004                             ROGUE SNR-8/DM R/Top of the choke ring
                                  29-JAN-91/09-AUG-92
 S005                   USUD      ROGUE SNR-8/DM R/Bottom of the choke ring
                                  09-AUG-92/29-OCT-92
 S007                   USUD      ROGUE SNR-8/DM R/Bottom of the choke ring
                                  29-OCT-92/

21730  TSUKUBA
 M001              7311           Mobile VLBI marker
 M002                             GSI 5 MARKER
 M003                   TSKA      Stainless Steel Pillar/IGEX Marker
 M004                             TSUKUB32 VLBI  geodetic ground marker
 M005              7360           8cm metal marker / Mobile VLBI marker
 S001              7311           5m mobile VLBI
 S002                             MINI MAC2816AT/L1 10-JUL-88 - 17-DEC-91
 S003                             MINI MAC2816AT/L1 18-DEC-91
 S004                   TSUK      MINI MAC2816AT / Bottom of the antenna
 S005                   TSKB      TurboRogue/DM T/ARP 15-DEC-93
 S006                   TKBA      ASHTECH Z-XII3/Rev.D(70718)/ARP 06-APR-1996
                                  (942002)
 S007              7345           Fully steerable 32m Cassegrain antenna with
                                  AZ/EL mount (TSUKUB32)/Intersection of axes
 S008              7360           3.8m VLBI antenna Ref. Pt.

21731  SHINTOTSUKAWA
 M001              7315           Mobile VLBI marker
 S001              7315           Mobile VLBI
 S002                   STKW      ASHTECH Z-XII3/Rev.D(70718)/ARP 06-APR-1996
                                  (942001)
 S003              7346           Fully steerable 3.8m Cassegrain antenna with
                                  AZ/EL mount (SINTOTU3)/ Intersection of axes
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21732  CHICHIJIMA
 M001                              VLBI geodetic ground marker
 S001              7316            mobile VLBI
 S002              7844            SLR IAR HTLRS-1
 S003                   CCJM       ASHTECH Z-XII3/Rev.D(70718)/ARP 06-APR-1996
                                   (942003)
 S004              7347            Fully steerable 10m Cassegrain antenna with
                                   AZ/EL mount(CHICHI10)/ Intersection of axes

21733  MINAMI TORI SIMA (MARCUS)
 S001              7300            SLR IAR HTLRS-1
 S002              7310            mobile VLBI

21735  TSUSHIMA
 S001              7302            SLR IAR HTLRS-1

21736  ISHIGAKI SHIMA
 S001              7307            SLR IAR HTLRS-1

21737  SAGARA
 M001              7325            Mobile VLBI marker / 8cm metal marker
 S001              7325            VLBI antenna Ref. Pt.

21738  DAITO
 S001              7326            VLBI antenna Ref. Pt.

21739  MIURA
 M001              7337            SLR geodetic ground marker
 S001              7336            Steerable 11m Cassegrain VLBI
                                   antenna/intersection of axes
 S002                              Ashtech Z-XII with GEODETIC L1/L2 antenna/ARP

21740  TATEYAMA
 M001              7339            SLR geodetic ground marker
 S001              7338            Steerable 11m Cassegrain VLBI
                                   antenna/intersection of axes
 S002                              Ashtech Z-XII with GEODETIC L1/L2 antenna/ARP

21741  MITAKA
 S001                   MTKA       TSA-100 GPS ARP
 S002                   MTKA       ASHTECH 701073 ARP

21742  AIRA
 M001                              VLBI geodetic ground marker
 S001                   AIRA       TRIMBLE 4000SSI-RC II/Permanent L1/L2/ARP
                                   24-FEB-1998 (970837)
 S002              7348            Fully steerable 10m Cassegrain antenna with
                                   AZ/EL mount (AIRA)/ Intersection of axes

21743  TOUHAKU
 S001                   TOHK       ASHTECH Z-XII3/Rev.D(70718)/ARP 23-MAR-1996
                                   (940073)

21744  TAMAGUSUKU
 S001                   OKNW       ASHTECH Z-XII3/Rev.D(70718)/ARP 23-MAR-1996
                                   (940100)

21745  TONAMI
 M001              7351            Mobile VLBI marker / 8cm metal marker
 S001              7351            TONAMI  2.4m VLBI antenna Ref. Pt.

21746  KANOZAN
 S001              7352            KANOZAN  2.4m VLBI antenna Ref. Pt.

21747  GIFU
 S001              7354            Fully steerable 3m Cassegrain VLBI antenna
                                   with Az/El mount / Intersection of axes

21903  CHON BURI
 M001                   CHON       Geodetic Ground Mark
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21904  BANGKOK
 M001                    CHUL      Chulalongkorn Univ. / Geodetic survey mark on
                                   top of Survey Building
 M002                    RTSD      Mapping School / Pillar on top of building
                                   /RTSD2

21905  PHUKET
 M001                    PHUK      Geodetic Ground Mark

22003  QUEZON
 M001                    PIMO      Geodetic ground marker under mobile geodetic
                                   system (GPS)

22006  MANILA
 M002                              DORIS mark
 M003                    MMA8      Geodetic Ground Mark
 S001                         MANA DORIS antenna ref. pt (Alcatel type)

22201  AMMAN
 M001                    AMMN      Top of center support screw on SCIGN D3
                                   antenna adaptor

22306  BANGALORE
 M001                    IISC      Granite Monument 250 m2
 M002                    IISC      CIRCLE AND DOT
 M003                    BAN2      Pillar

22307  HYDERABAD
 M001                              Stainless steel platform/Pillar/main building
                                   of NGRI

22601  SINGAPORE I
 M001                    NTUS      MARKER NTUS-01 / STEEL POLE /ROOF OF THE
                                   SCHOOL CIVIL ENGINEERING
 M002                    NTBS      Pillar

22602  SINGAPORE II
 M001                    CCBS      Changkat Changi Base Station / Pole secured to
                                   building
 M002                    SMU1      200 Airport Road / Stainless steel bolt on top
                                   of pillar

22603  SINGAPORE III
 M001                    PPBS      Peixin Primary School, Yishun Ring Road / Pole
                                   secured to building

22604  SINGAPORE IV
 M001                    RMBS      Radin Mas Base Station / Pole secured to
                                   building

22701  ARAU
 M001                    ARAU      Concrete Piller Piled to Bedrock

22702  BINTULU
 M001                    BINT      Galvanised Iron Pipe Mounted on Concrete Jetty

22703  KOTA BHARU
 M001                    GETI      Brass Thread piled on the concrete roof of
                                   Tide House

22704  GUNONG RAPAT
 M001                    IPOH      Stainless Steel Pillar mounted on concrete
                                   slab (piled to bedrock)

22705  KOTA KINABALU
 M001                    KINA      Concrete Pillar Piled to bedrock

22706  KUALA LUMPUR
 M001                    KTPK      Galvanised Iron Piped Mounted on top of
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                                  Concrete roof

22707  KUALA TERENGGANU
 M001                    KUAL     Brass Tread piled to bedrock (Geodyssea
                                  Station)

22708  KUANTAN
 M001                    KUAN     Concrete Pillar Piled to Bedrock

22709  KUCHING
 M001                    KUCH     Concrete Pillar Piled to Bedrock

22710  LABUAN
 M001                    LABU     Concrete Pillar Piled to Bedrock

22711  MIRI
 M001                    MIRI     Stainless Steel Pipe Mounted on Concrete Roof

22712  SANDAKAN
 M001                    SAND     Concrete Pillar Piled to Bedrock

22713  TAWAU
 M001                    MTAW     Concrete Pillar Piled to Bedrock

22714  SKUDAI, JOHOR BAHRU
 M001                    UTMJ     Brass Thread piled to concrete roof

22901  JUMUHUREE PARK-MALE
 M001                    MALE     Brass rod with stainless steel cap
 S001                    MALD     LEIAT504 chokering ant./ LEIS spherical radome
                                  /ARP

23001  HONG-KONG
 M001                    HKPU     Concrete Pillar / GLONASS MARKER

23002  KAU YI CHAU
 M001                    P075     Geodetic monument / concrete pillar with
                                  forced centering device

23003  FANLING
 M001                    P430     Geodetic mark

23101  PAREPARE
 M001                    PARE     Concrete pillar on top of building
 M001                             DORIS mark 1 (destroyed)
 M002                    BAKO     Concrete monument TTG1
 M003                             Domed brass mark on concrete pillar (DORIS 2
                                  mark)
 M004                    LABG     Concrete pillar / Bakosurtanal
 S001                         CIBB DORIS antenna ref. pt. (Starec type)
 S002                         CICB DORIS antenna ref. pt. (Starec type)

23104  MEDAN
 M001                    SAMP     Concrete pillar on top of building / Sampali

23105  BITUNG
 M001                    PBIT     Concrete pillar

23106  PENDAK DAYUNG, JAKARTA
 M001                    PDAY     Concrete pillar

23107  SORONG, IRIAN JAYA
 M001                    PSOR     Concrete pillar

23108  MANADO
 M001                    MAND     Manado Airpor / Concrete pillar / Manado
                                  N.4001
 M002                    WINA     Winangun / Concrete pillar

23401  PHNOM PENH
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 M001                  PENH      Geodetic Ground Mark
 M002                  LAND      Geodetic Ground Mark

23402  SIEM REAP
 M001                  SIEM      Geodetic Ground Mark

23403  SIHANOUKVILLE
 M001                  SIHA      Geodetic Ground Mark

23404  STUNG TRENG
 M001                  STUE      Geodetic Ground Mark

23405  SVAY RIENG
 M001                  SVAY      Geodetic Ground Mark

23501  COLOMBO
 M001                            Mark on roof (Epoch 92)
 M002                            DORIS mark
 S001                       COLA DORIS antenna ref. pt (Alcatel type)

23601  TAIPEI
 M001                  TAIW      GPS mark

23603  TAOYUAN
 M001                  NFTL      Building roof/Geodetic marker/stainless steel
                                 pillar
 S001                  TWTL      GPS/GLONASS Antenna/3S NAV TSA-100 CR/ ARP
 S002                  TWTF      ASH701945C_M    SCIS / CR620012101 / ARP

23604  HSINCHU
 S001                  TNML      AOAD/M_T GPS Antenna/ARP
 S002                  TCMS      LEIAT504 (SN:720) GPS antenna/ARP

23902  TAEJON
 M001                  TAEJ      KAO GPS STATION/Stainless Steel Rod In Poured
                                 Concrete Post
 M002                  DAEJ      Stainless Steel Rod/Top of Ferro-concrete
                                 Pillar
 S001                            TRIMBLE 4000SDT/L1

23903  SUWON-SHI
 M001                  SUWN      Concrete base marker
 M002            7353            Mobile VLBI Marker
 S001                  7353      SUWON  3.8m VLBI antenna Ref. Pt.

23904  OSAN AIR BASE
 S001                  SKOR      NIMA GPS antenna ASH700936B_M 12121 /ARP

23905  CHEJU-SHI
 M001                  CHJU      Pillar

24101  VIENTANE
 M001                  VIEN      Concrete Monument

24102  Champasack Province
 M001                  KHON      Concrete Monument

24103  PHONGSALI
 M001                  PHON      Concrete Monument

24104  HOUAXAY
 M001                  HOUA      Concrete Monument

24105  LAKXAO
 M001                  LAKX      Concrete Monument

24106  PHUTAKOY
 M001                  PHUT      Concrete Monument

24107  SAMNUA
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 M001                    SAMN      Concrete Monument

24201  ULAN BATOR
 M001                    ULAB      Geodetic Pillar

24202  ARVAIKHEER
 M001                    ARVA      Point of Gravimetric Network

24203  CHOIBALSAN
 M001                    CHOI      Point of Gravimetric network

24204  DALANZADGAD
 M001                    DALA      Point of Gravimetric Network

24205  HOVD
 M001                    HOVD      Point of Gravimetric Network

24206  MURUN
 M001                    MURN      Point of Gravimetric Network

24302  DIEN MIEN PHU
 M001                    QT01      Geodetic Ground Mark

24303  HAI PHONG
 M001                    QT02      Geodetic Ground Mark

24304  DA NANG
 M001                    QT03      Geodetic Ground Mark

24305  VUNG TAU
 M001                    QT04      Geodetic Ground Mark

24901  BAHREIN (JUFFAR)
 M001                              RM1-31314 DMA 35012 (OLD DOPPLER 31482)
 M002                    BAHR      WM1 DMA 32021
 S001                              GPS DMA TI4100 / L1

25601  CHUMYSH
 M001                    CHUM      Divot in a 5/8" S/S screw in the DOSE leveling
                                   mount.

30101  HELWAN
 M001                    PHLW      Dimple in the center of a long, steel threaded
                                   pin
 S001             7831             SLR IAR fixed

30102  ALEXANDRIA
 M001                    ALEX      CEA/eighth floor terrace/Center of lower steel
                                   plate of the centring device fixed on the top
                                   of a concrete pillar

30302  HARTEBEESTHOEK
 M002                    HART      Engraved plate below ROGUE antenna
 M003             7501             SLR mark 1993
 M004                    HRAO      KRUGERSDORP/SS6TRI MONUMENT
 M005                              DORIS 1 mark
 M006                              DORIS 2 mark
 M007                    HARK      Survey and Mapping Rogue bench mark
 M008                              Brass mark on top of a steel pole
 M009                    HARB      Brass mark on a concrete pad
 S001             7232             26m VLBI antenna ref. pt.
 S005                         HBLA DORIS 2 antenna ref. pt. (Alcatel type)
 S006                         HBKB DORIS antenna ref. pt. (Starec type)
 S202                         HBKA DORIS 1 antenna ref. pt. (Alcatel type)

30304  OLIFANTSFONTEIN
 S001             7902             Fixed SLR / Laser Mount Rotation Axes

30307  SIMONSTOWN
 M001                    SIMO      Pier / Center of bottom plate of SSI
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                                  self-centring mount

30310  PRETORIA
 M001                    CSIR     Steel Table on top of building lift tower
 S001                    SAFR     NIMA GPS antenna ASH700936B_M CR16465 / ARP

30313  MARION ISLAND (PRINCE EDWARD ISLANDS)
 M001                             DORIS mark
 S001                        MARA DORIS antenna ref. pt (Alcatel type)
 S002                        MARB DORIS 2 antenna ref. pt. (Starec type)

30314  SUTHERLAND
 M001               7502          SLR mark 1993
 M002                    SUTH     Ref. Pt. on Stainless steel platform / pier
                                  tied to bedrock
 M003                    SUTG     PIER/Top of fixed antenna mount
 M004                    SUTM     Pillar in Bedrock

30315  RICHARDSBAY
 M001                    RBAY     Top of small v drilled into stainless steel
                                  with self centring platform

30602  ASCENSION
 M001                    ASC1     PLATE/I-BEAM MAST/ROOF MOUNT
 M002                             Ariane station / DORIS mark
 S003                             GPS OCS monitor station
 S004                        ASDB DORIS 2 antenna ref. pt. (Starec type)

30604  TRISTAN DA CUNHA
 M001                             Concrete pillar / DORIS mark
 S001                        TRIA DORIS antenna ref. pt (Alcatel type)
 S002                        TRIB DORIS antenna ref. pt. (Starec type)

30606  SAINTE-HELENE
 M002                             DORIS 2 mark
 S002                        HELA DORIS 1 antenna ref. pt. (Alcatel type)
 S003                        HELB DORIS 2 antenna ref. pt. (Starec type)

30607  SIGNY ISLAND
 M001                    SIG1     GAP GPS MARKER
 S001                        SIGA DORIS antenna ref. pt (Alcatel type)

30608  GOUGH ISLAND
 M001                    GOUG     steel pipe, drilled into the rock, 5/8"screw

30802  DIEGO GARCIA
 M001                    DGAR     GPS MARKER/ROOF MOUNT
 S002                             GPS OCS monitor station

31303  MASPALOMAS
 M001                    MASP     PILLAR MPA1
 M002                    MAS1     GPS mark

31901  FLORES
 S001                        FLOA DORIS antenna ref. pt (Alcatel type)

31903  SANTA MARIA
 S001                        SAMB DORIS antenna ref. pt. (Starec type)

31906  PONTA DELGADA (SAO MIGUEL)
 M001               7609          Ponta Delgada / Mobile VLBI mark 1992
 M002                             DORIS mark on the university roof
 M003                             Tide gauge benchmark MN B 11/92
 M004                    PDEL     Metalic pillar on the top of a building in the
                                  Azores University
 S001                        PDLB DORIS antenna ref. pt. (Starec type)
 S002                        PDMB DORIS antenna ref. pt. (Starec type)

32601  YAMOUSSOUKRO
 M001                    YKRO     Raised tip (3mm) above monument plate
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32809  LIBREVILLE
 M001                          N'Koltang / Borne 1988
 M002                   NKLG   Domed brass mark in concrete block
 M003                          DORIS mark in the concrete base of the
                               building
 S001                          TRIMBLE SLD/L1 22-JAN-91 - 13-FEB-91
 S002                     LIBA DORIS antenna ref. pt (Alcatel type)
 S003                     LIBB DORIS 2 antenna ref. pt. (Starec type)

32810  MASUKU
 M001                   MSKU 28-0 Top of the SCIGN mount center bolt

32901  KUMASI
 M001                   KUMA   PILLAR UST 1/68/SS1

33201  MALINDI
 M001                   MALI   METAL PLATE / CONCRETE MONUMENT

33710  ARLIT
 M002                          DORIS 2 mark
 S001                     ARLA DORIS 1 antenna ref. pt (Alcatel type)
 S002                     ARMA DORIS 2 antenna ref. pt (Alcatel type)

33901  MBARARA
 M001                   MBAR   Top of the center support bolt of the SCIGN
                               adapter

34101  DAKAR
 M003                          DORIS mark
 S004                     DAKA DORIS antenna ref. pt (Alcatel type)

34601  LUSAKA
 M001                   ZAMB   Anodized aluminium self-centring plate with
                               v-shaped hole

35001  RABAT
 M001                   IAVH   Institut Agronomique et Veterinaire Hassan
                               II/5/8-inch threaded stainless steel pin
                               cemented into roof of building
 M002                   RABT   Conquest pin that is epoxied into the cement
                               wall on the roof

39601  PALMEIRA
 S001                   TGCV   LEIAT504  antenna / LEIS spherical radome /ARP

39801  MAHE ISLAND
 M001                   SEY1   MONUMENT CONNECTED TO A CONCRETE WELL-HEAD JPL
                               4016-S
 M002                          Pointe Larue / Concrete block / 12 mm
                               stainless steel mark (DORIS)
 M003                          Pointe Larue / Tide gauge jetty / concrete pad
                               / mark UH2
 S005                     MAHB Pointe Larue / DORIS antenna ref. pt. (Starec
                               type)

39901  DJIBOUTI
 M001                          AR00 mark
 M002                          Pasted target on top of a wall (DORIS 1)
 M003                          Top of a building wall / 12 mm domed mark
                               (DORIS 2)
 M004                          Concrete pillar / threaded hole in metal part
 S002                     DJIA DORIS antenna ref. pt (Alcatel type)
 S003                     DJIB DORIS antenna ref. pt. (Starec type)

40101  ST JOHN'S
 M001                   STJO   920000 Concrete pillar on bedrock/plate
 M002                          Concrete pillar / DORIS mark
 M003                          Mark in the center of the mobile VLBI antenna
                               support
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 S002                        STJB DORIS antenna ref. pt. (Starec type)

40102  ONTARIO-OTTAWA
 M001                             DORIS mark on the roof of Geomatics Canada
                                  building
 S005                        OTTA DORIS antenna ref. pt (Alcatel type) (original
                                  location)
 S006                        OTTA DORIS antenna ref. pt (Alcatel type) : dubious
                                  position (1st fall)
 S007                        OTTA DORIS antenna ref. pt (Alcatel type) : between
                                  1st and 2nd fall
 S008                        OTTA DORIS antenna ref. pt (Alcatel type) : dubious
                                  position (2nd fall)
 S009                        OTTA DORIS antenna ref. pt (Alcatel type) : between
                                  2nd and 3rd fall
 S010                        OTTA DORIS antenna ref. pt (Alcatel type) : dubious
                                  position (3rd fall)
 S011                        OTTB DORIS antenna ref. pt (Starec type)

40103  PRINCE ALBERT
 M001                   PRAL      GPS Mark

40104  ALGONQUIN
 M002                   ALGO      883160 GPS ARO N. pier
 M003              7410           SLR Mark (933000)
 M004                   ALGR      CONCRETE PILLAR with BRASS PLATE and STAINLESS
                                  STEEL FORCE CENTERING PIN (No. 983002)
 S001              7282           46m VLBI antenna ref. pt.
 S003                             ROGUE SNR-8/DORNE-MARGOLIN B/L1 16-JAN-91 -

40105  PENTICTON
 M001              7283           Mobile VLBI mark 7283
 M002                   DRAO      GPS MARK 887006
 S002                             TI4100/L1
 S003                             ROGUE SNR-8/DM B/L1 27-FEB-91

40114  OTTAWA
 M001                   NRC1      GPS MARKER

40118  WHITEHORSE
 M001              7284           Mobile VLBI mark 7284
 M002              7284           Mobile VLBI mark 7284 PEQ

40120  HALIFAX
 M001                   HLFX      Forced centering plate on concrete pillar
                                  (961000)

40124  CALGARY
 M001                   PRDS      PRIDDIS/GPS Mark

40127  YELLOWKNIFE
 M001              7285           Mobile VLBI mark (LBI 829098)
 M002                             Mark 869211
 M003                   YELL      Mark 889201
 M004              7296           Mobile VLBI MARK (LBI 909012)
 S003                             TI4100/L1 01-JAN-87 - 02-JUL-89
 S004                             TI4100/L1 07-JUL-89 - 21-JAN-91
 S005                             ROGUE SNR-8/DORNE-MARGOLIN B/L1 21-JAN-91 -
                                  19-MAR-91
 S006                             Mini ROGUE SNR-8C/DORNE-MARGOLIN B/L1
                                  20-MAR-91-
 S007                        YELA DORIS antenna ref. pt (Alcatel type)
 S008                        YELB DORIS antenna ref. pt. (Starec type)

40128  CHURCHILL
 M002                   CHUR      PLATE/CONCRETE PILLAR

40129  VICTORIA/SIDNEY
 M001              7289           Mobile VLBI mark
 M002                   PGC1      Marker 867001/Centre-punch on brass
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			control-point marker set into concrete flush with ground level
	M003	ALBH	Albert Head GPS Mark 927000
	M004	PGC2	Brass marker in concrete base (967007)
	M005	PGC3	Brass plate on top of concrete pillar (987001)
	M006	PGC4	Stainless Steel plate on top of concrete pillar (987002)
	M007	PGC5	Brass plate on top of concrete pillar (987003)
	S001		VICTORIA/ROGUE/L1 16-JAN-91 -
40130	HOLBERG		
	M001	HOLB	GPS mark
40132	LA GRANDE		
	M001 7411		Mobile SLR MARKER 7411
40133	SCHEFFERVILLE		
	M001	SCHE	GPS MARKER (SCHE)
	M002	SCH2	Brass plate/bolt/concrete pier
40134	WILLIAMS LAKE		
	M001	WILL	GPS MARKER
40135	FLIN FLON		
	M001	FLIN	GPS MARKER 965000
40136	WHITEHORSE GPS SITE		
	M001	WHIT	MONUMENT 7787017
40137	LAC DU BONNET		
	M001	DUBO	TOP OF CONCRETE PIER 924000
40138	NANOOSE		
	M001	NANO	Brass plate on top of concrete pillar anchored into bedrock
40139	CHEEKA PEAK		
	M001	NEAH	Brass plate on top of concrete pillar anchored into bedrock
40140	UCLUELET		
	M001	UCLU	Brass plate on top of concrete pillar anchored into bedrock
40141	WHISTLER		
	M001	WSLR	Brass plate on top of concrete pillar anchored into bedrock
40142	CHILLIWACK		
	M001	CHWK	Stainless Steel forced centre pier (987020)
40143	NOOTKA ISLAND		
	M001	NTKA	WCDA Stainless Steel forced center pier (M007000)
40144	ELIZA DOME		
	M001	ELIZ	WCDA Stainless Steel forced center pier (M007001)
40145	BEAVER COVE		
	M001	BCOV	WCDA Stainless Steel forced center pier (M007003)
40146	FREDERICTON		
	S001	UNB1	Chokering antenna [RegAnt II] RA0193 / ARP
40147	GATINEAU		
	M001	CAGS	Bedrock / Concrete pillar / brass plate with a forced centering stainless steel bolt (962000)

40148 HOLMAN
M001 HOLM Bedrock / Concrete pillar / brass plate with a forced centering stainless steel bolt (M019000)

40149 RESOLUTE
M001 RESO Bedrock / Concrete pillar / brass plate with a forced centering stainless steel bolt (M009002)

40150 INUVIK
M001 INVK Bedrock / Concrete pillar / brass plate with a forced centering stainless steel bolt (M009004)

40151 BAIE COMEAU
M001 BAIE Concrete pillar attached to bedrock (M012001)

40152 BAKER LAKE
M001 BAKE Stainless steel plate with a forced centering stainless steel bolt weldeded on top of a 1.5 metre high stainless steel pillar, 14 cm in diameter (M019002)

40153 EUREKA
M001 EURK Steel platform welded to a steel pole (M019001)

40154 KUUJJUARAPIK
M001 KUUJ Brass centering plate 20.3 cm in diameter set in concrete cylinder 35.5 cm in diameter (942005)

40155 PICKLE LAKE
M001 PICL Concrete pillar attached to bedrock (M013001)

40156 VAL D OR
M001 VALD Concrete pillar (932051)

40157 PARRY SOUND
M001 PARY Aluminum plate with a forced centering stainless steel bolt embedded on top of a 3.3 m high, 15 cm diameter aluminum pillar (M023006)

40158 ST. CATHERINE (PORT WELLER)
M001 PWEL Aluminum plate with a forced centering stainless steel bolt embedded on top of a 3.3 m high, 15 cm diameter aluminum pillar (M023002)

40159 ROSSPORT
M001 ROSS Aluminum plate with a forced centering stainless steel bolt embedded on top of a 3.3 m high, 15 cm diameter aluminum pillar (M023004)

40160 HEARST
M001 HRST Brass plate with a forced centering stainless steel bolt embedded on top of a 1.5 m high, 40 cm diameter concrete pillar (963012)

40161 KINGSTON
M001 KNGS Stainless plate with a forced centering stainless steel bolt embedded on top of a 8 m high, 25 cm wide concrete abutment (M023003)

40162 ALERT (NUNAVUT)
M001 ALRT Brass plate with a stainless steel centering

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                                    bolt on the top of 5 inch

40400  PASADENA
 M001              7896              Mark SLR (JPL aries 2 1975)
 M003              7263              Mobile VLBI Mark
 M005              7264              Mobile VLBI MARK
 M006              7272 JPLM         Mobile VLBI mark (JPL MV3 1983)
 M007              7272 JPLM         Mobile VLBI mark (JPL MV3 1983) PEQ
 M101                   WLSN         Mt. Wilson/bedrock/concrete bloch JPL 4028-s
 M301                   BRAN         Burbank/pipe with fitting adaptor
 M401                   VDCY         Glendale/ Top of center support screw, SCIGN
                                     D3 antenna
 S004                                ROGUE SNR-8/DM R/L1 6-NOV-90 -
 S201                   CIT1         CALTECH/NORTH MUDD BUILDING/ROGUE SNR-8000/DM
                                     T/ARP

40403  PALOS VERDES
 M001              7268              Mobile VLBI mark
 M002                   PVEP         PGGA Mark
 M003                   PVRS         Rolling Hills/Raised nipple on the lower part
                                     of the antenna adaptor
 M004                   PVHS         Rolling Hills/Raised nipple on the lower part
                                     of the antenna adaptor
 M005                   PVE3         Top of center support screw on SCIGN  D3
                                     antenna adaptor

40404  PEARBLOSSOM
 M001              7254              Mobile VLBI mark (NCMN 1983)
 M002              7253              Mobile VLBI mark
 M003                   DVPB         Raised nipple on the lower part of the antenna
                                     adaptor
 M004                   PBPP         Drilled hole in top of center support bolt of
                                     SCIGN D3 antenna adaptor
 M101                   HOLC         HOLCOMB RIDGE/ 3/4" Vert. Stainless steel rod
 M103                   HOL3         HOLCOMB RIDGE/Top of center support screw on
                                     SCIGN D3  antenna adaptor

40405  GOLDSTONE
 M001              7085              MOBLAS 7085 Goldstone val
 M002              7115              MOBLAS 7115-1979 standard NASA disk
 M006              7265              Mojave NCMN 1983 NGS station disk
 M010              7287              Mojave TLRS 1984 standard NASA disk
 M011                                Mojave NCMN 1 1983
 M013              7288              Mojave mobile VLBI and TLRS mark(Punchmark on
                                     sheared surface of 7287 mark)
 M014                                DORIS mark
 S001              1514              Mars 64m fixed VLBI ref. point (DSS14)
 S003              1512              (26) 34m fixed VLBI ref. point (DSS12)
 S005                        GOMA    DORIS 2 antenna ref. pt (Alcatel type)
 S009              7222              Mojave fixed 12m VLBI ref. point
 S014              1513              Venus 26m fixed VLBI ref. point (DSS13)
 S019              1515              Mars 34m fixed VLBI ref. point (DSS15)
 S020                                TI4100/L1 11-NOV-86 - 18-JUL-88
 S024                                TI4100 FRPA-2/L1/L2 19-JUL-88
 S025                                MINI MAC 2816AT/L1 05-FEB-89
 S026                                ROGUE SNR-8/DM R/L1 14-DEC-89
 S028                   GOLD         Goldstone/ ROGUE SNR-8/DM R/Bottom of the
                                     choke ring 14-DEC-
 S029                   MOJ1         Mojave/MINI MAC 2816AT/Bottom of the antenna
                                     05-FEB-89
 S030                                Goldstone/ ROGUE SNR-8/DM R/Top of the choke
                                     ring 14-DEC-89
 S031                   GOLD         Goldstone/ ROGUE SNR-8/DM R/Bottom choke ring
                                     PEQ 28-JUN-92-
 S032                                Goldstone/ ROGUE SNR-8/DM R/Top choke ring PEQ
 S033              7222              Mojave fixed 12m VLBI ref. point PEQ
                                     28-JUN-92-
 S034              1515              Mars 34m fixed VLBI ref. point (DSS15) PEQ
 S035                        GOLA    DORIS 1 antenna ref. pt (Alcatel type)
 S037                        GOMB    DORIS 3 antenna ref. pt. (Starec type)
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40406  SAN FRANCISCO (PRESIDIO)
 M001              7252           Mobile VLBI mark
 M002              7252           Mobile VLBI mark PEQ

40407  PINYON FLATS
 M001              7256           Mobile VLBI mark (NCMN 1981)
 M002                   PIN1      Pinyon 1
 M003                   PIN1      Pinyon 1 PEQ
 M004                   PIN2      Pinyon 2
 S001                             ROGUE SNR-8/DM B/L1 6-NOV-90 -

40408  FAIRBANKS
 M001                   FAIR      GPS pillar
 M002                             Range building roof / engraved cross on
                                  aluminum coating (DORIS 1 mark)
 M004                             Engraved cross on the upper surface of a
                                  6-meter pedestal
 S001                             26m antenna ref. pt.
 S002              7225           26m VLBI ref. point (GILMORE CREEK)
 S003                             ROGUE SNR-8/DM R/L1 17-JAN-91
 S004                        FAIA DORIS antenna ref. pt (Alcatel type)
 S005                        FAIB DORIS 2 antenna ref. pt. (Starec type)

40409  KAENA POINT (HAWAII)
 S001                             GPS OCS monitor station

40410  POINT REYES
 M001              7251           Mobile VLBI mark

40412  AUSTIN
 M001              7890           Mark SLR 7890
 M002                             Austin monument
 M003              7271           Mobile VLBI mark
 M004                   ARLT      Brass disks cemented in concrete/GPS Station
                                  85408

40416  YAKATAGA
 M001              7277           Mobile VLBI mark
 M002              7277           Mobile VLBI mark PEQ

40417  PATRICK AFB
 M001              7081           Mark SLR
 M002              7069           Mark SLR
 M003                   PATR      Brass disks cemented in concrete/GPS Station
                                  85145

40418  EDWARDS AFB
 M001                   PHLB      Top of center support screw on SCIGN D3
                                  antenna adaptor
 M002                   EDWD      Brass disks cemented in concrete/GPS Station
                                  85146

40419  KODIAK
 M001              7278           Mobile VLBI marker / MARK 7278 MODIFIED CLASS
                                  A BENCH ROD
 S001                   KOD1      GPS ARP /  ASHTECH Z-XII3 (05401), ASH700829.3
                                  (12080)
 S002                   KOD2      GPS ARP /  ASHTECH Z-XII3 (04946), ASH700829.3
                                  (11264)
 S003                   KODK      GPS Antenna - ASH701933B_M CRN1999160190 /
                                  Bottom of  pre-amplifier

40420  VANDENBERG AFB
 M001              7111           DMA disk MOBLAS 7111 (1981)
 M002              7223           DMA disk VLBI 7223 (1983)
 M003              7880           DMA disk TLRS 7880 (1983)
 M004              7887           DMA disk TLRS 7887 (1983)
 M006                   VNDP      PGGA 1991
 M007                   VNDP      PGGA 1991 PEQ
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 M101                   HARV      HARVEST PLATFORM/GPS pier

40421  NOME
 M001              7279           Mobile VLBI mark

40423  SANDPOINT
 M001              7280           Mobile VLBI mark

40424  KAUAI
 M004                   KOKB      VERLOT radar building JPL GPS mark 3028-S
 M005                             CIGNET-GPS survey marker
 M006                             JPL GPS temporary mark
 S001              1311           9m VLBI ref. point
 S002                             TI4100/L1 - -86 -
 S003                             TI4100 FRPA-2/L1 -APR-88 - 02-JUL-90
 S004                             TRIMBLE 4000SST/L1 02-JUL-90 - 17-MAR-92
 S006                             ROGUE SNR-8/DM R/L1 21-NOV-90 -
 S007              7298           20-m VLBI antenna/AZ-EL
 S008                        KOKA DORIS antenna ref. pt (Alcatel type)

40425  SOURDOUGH
 M001              7281           Mobile VLBI mark
 M002              7281           Mobile VLBI mark PEQ

40426  CAP CANAVERAL I
 M001                   CAPE      Brass disks cemented in concrete/GPS Station
                                  85414
 S001                   CCV1      GPS ARP / ASHTECH z-XII3, ASH700829.3 SNOW

40427  FORT ORD
 M001              7266           Mobile VLBI mark (NCMN 1981)
 M002              7241           Mobile VLBI mark
 M003              7241           Mobile VLBI mark PEQ

40428  SANTA PAULA I
 M001              7255           Mobile VLBI mark
 M002                   KBRC      Top of center support screw on SCIGN  D3
                                  antenna adaptor

40429  ALBUQUERQUE
 S001              7884           Albuquerque STARFIRE (STRLAS) /fixed laser/IAR

40430  BLACK BUTTE
 M001              7269           Mobile VLBI mark (NCMN 1982)

40431  DEADMAN LAKE
 M001              7267           Mobile VLBI mark
 M002                   SDHL      Landers / Drilled hole in top of center
                                  support bolt of antenna  adaptor

40432  ELY
 M001              7286           Mobile VLBI mark/ELY AIRPORT R.M. NO. 2 1954
 M002              7257           Mobile VLBI mark/ELY AIRPORT 1954

40433  QUINCY
 M001              7051           Steel plate MOBLAS 7051
 M002              7109           MOBLAS 7109 (1981) Standard NASA disk
 M004              7221 QUIN      QUINCY NCMN Standard NASA disk (7221-1982)
 M005              7886           TLRS 7886 (1982) standard NASA disk
 M006              7260           Quincy ARIES 1979

40434  MOUNT HOPKINS
 M002              7888           Mark SLR
 S001              7921           SLR IAR (SAO)

40436  SAN DIEGO - OTAY MT.
 M002              7062           Mark SLR Circular 5" steel plate
 M003              7035           Mark SLR 7035 1988

40437  MAMMOTH LAKES
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 M001              7259           Mobile VLBI mark
 M002                   CASA      GPS Mark JPL 4087-S

40438  BEAR LAKE
 M001              7082           Mark SLR (4" x 4" Steel plate)
 M002              7046           SLR mark

40439  OWENS VALLEY
 M001              7114           MOBLAS 7114 (1979) standard NASA disk
 M003              7084           MOBLAS, TLRS 7084 standard NASA disk
 M004              7853           Mobile VLBI Jul 87 standard NASA disk
 S002              7207           40m VLBI ref. point
 S006              7616           VLBA antenna reference point

40440  WESTFORD
 M001              7091           MOBLAS Haystack Inter Comp 1977
 M004                             Monument MICRO
 S002              7205           Haystack / 37m VLBI ref. point
 S003              7209           Westford / 18m VLBI ref. point
 S014                             TI4100/L1 -OCT-86 - 04-AUG-88
 S016                             TI4100 FRPA-2/L1/L2 05-AUG-88 - 14-FEB-89
 S017                             MINI MAC 2816AT/L1 29-JAN-89 -
 S019                   WES1      MINI MAC 2816AT / Bottom of the antenna
 S020                   WES2      Rogue SNR-8000/DM T/BPA 08-FEB-93

40441  GREENBANK
 S001              7204           43m radiotelescope ref. pt.
 S004              7214           85-foot antenna ref. pt. NRAO85-3
 S005              7248           85-foot antenna ref. pt. NRAO85-1
 S006              7214           85-foot antenna ref. pt. NRAO85-3 PEQ
 S007              7208           20-m antenna ref. pt.

40442  FORT DAVIS
 M001              7086           MLRS, MOBLAS, TLRS-1 standard NASA disk
 M004                             McDonald RM4 1977
 M005              7885           MLRS, MOBLAS, TLRS-1 standard NASA disk
 M006              7080           MLRS mark 7080 1988
 M008              7850           Mobile VLBI and SLR mark 7850 1988
 M009              7900           Mobile VLBI mark (Havard RM 5 1977)
 M010              7897           SLR Mark 7850
 M011              7851           SLR MARK 7851
 M012                   MDO1      GPS Mark 4011-S
 S001              7086           LLR MLRS
 S002              7206           LLR McDonald 2
 S003              7216           85-foot VLBI ref. point (HRAS 085)
 S017              7613           VLBA antenna reference point

40445  MAUI
 M001              7210           HOLLAS fixed carriage bolt
 M002              7120           MOBLAS 7120 (1980)
 S005              7210           LLR Haleakala transmitter
 S008                   MAUI      Ashtech Dorne-Margolin chokering antenna S/N:
                                  12610 / ARP center of base of pre-amplifier

40446  LEXINGTON
 S001                   SL1X      Ashtech Z18/701073 ASHTECH CHOKE RING/ARP

40449  OCOTILLO
 M001              7270           Mobile VLBI mark (NCMN 1982)

40451  WASHINGTON
 M101              7101           MOBLAS 7101-1977 standard NASA disk
 M102              7102           Mobile SLR 7102-1978 standard NASA disk
 M103              7103           Mobile SLR 7103-1978 standard NASA disk
 M104              7104           Mobile SLR 7104-1978 standard NASA disk
 M105              7105           MOBLAS -7 7105-1981 standard NASA disk
 M106              7100           Mobile SLR 7100-1977 standard NASA disk
 M107              7064           Mobile SLR 7064 standard NASA disk
 M108              7065           Mobile SLR 7065 standard NASA disk
 M110                             Greenbelt north GEOS(GSFC) GORF
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 M111             7899           TLRS 7899-1980 standars NASA disk
 M112             7063           STALAS fixed Laser standard NASA disk
 M113             7106           SLR mark
 M114             7125           SLR mark 7125 1985 standard NASA disk
 M115             8213           SLR mark
 M116             7130           SLR mark 7130 1985 standard NASA disk
 M117             7920           SLR mark 7125-B standard NASA disk
 M118             7889           SLR mark 7889 1981 standard NASA disk
 M119             7917           SLR mark 7917 Steel plate SAO-3
 M120             7918           SLR mark standard NASA disk
 M121             7919           SLR mark standard NASA disk
 M122             7083           SLR mark standard NASA disk
 M123                  GODE      GPS Mark East (JPL 4006)
 M124                  GODW      GPS Mark West (JPL 4005)
 M125             7108           Mark SGP 7108-1993
 S003                  USNO      Roof of USNO Bldg 52/AOAD/M_T(SN#309)/ARP
                                 24-APR-1997 - present
 S004                  USNX      Roof of USNO Bldg 78/3S-02-TSADM(SN#12)/ARP
                                 15-OCT-1998 - 26-AUG-1999
 S005                  WASH      NIMA GPS antenna ASH700936B_M 1122 /ARP
 S006                  USN1      Roof of USNO Bldg 78/3S-02-TSADM(SN#12)/ARP
                                 21-DEC-2000 - present
 S176                       GREB DORIS antenna ref. pt (Starec type)

40452  BLOOMINGTON
 M001             7291           Mobile VLBI mark

40453  CARROLLTON
 M001             7228           Mobile VLBI mark

40454  LEONARD
 M001             7292           Mobile VLBI mark

40455  MILES CITY
 M001             7038           Mobile VLBI mark

40456  PIETOWN
 M001                  PIE1      Concrete GPS pier JPL 4009 S
 S001             7234           VLBA antenna reference point

40457  SEATTLE
 M001             7229           Mobile VLBI mark

40458  MALIBU/SADDLE PEAK
 M001                  SPK1      STEEL MONUMENT/ROOF CONCRETE BUNKER JPL 4504-S

40460  LA JOLLA/SCRIPPS
 M001                  SIO1      SCRIPPS 1 1989 UCSD IGPP
 M002                  SIO2      SCRIPPS 2
 M003                  SIO2      Peak of center support screw of lower part of
                                 the antenna adaptor
 M004                  SIO3      SCRIPPS 3
 M005                  SIO4      Peak of center support screw of lower part of
                                 the antenna adaptor
 M006                  SIO5      Top of center support screw on SCIGN D3
                                 antenna adaptor
 S003                            ARP/DM B/(ASHTECH 700936 Rev D) SN 14723

40461  WHITTIER
 M001                  WHC1      WHITTIER COLLEGE/STEEL MON./SIDE BULIDING
                                 4505-S
 M002                  WHI1      WHITTIER LIBRARY/STEEL MON./SIDE BULIDING
                                 4502-S
 M003                  RHCL      Raised nipple on the lower part of the antenna
                                 adaptor

40462  HOLLOMAN
 M001                  HOLL      Brass disks cemented in concrete/GPS Station
                                 85144
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40463  LOS ALAMOS, NM
 S001              7611          VLBA antenna reference point

40464  PARKFIELD/CARR HILL
 M001                   CARR      LEXI 1989-USGS
 M002                   LAND      Lang Parkfield/Punch mark on side of braced
                                  monument
 M003                   POMM      Pomm Parkfield/Punch mark on side of braced
                                  monument
 M004                   MIDA      Mida Parkfield/Punch mark on side of braced
                                  monument
 M005                   CAND      Cann Parkfield/Punch mark on side of braced
                                  monument
 M006                   CARH      Carrhill /  Drilled hole in top of center
                                  support bolt of antenna adaptor
 M007                   HUNT      Hunt / Parkfield / Drilled hole in top of
                                  center support bolt of antenna adaptor
 M008                   MNMC      Mine Mountaine / Parkfield / Drilled hole in
                                  top of center support bolt of antenna adaptor

40465  NORTH LIBERTY
 M001                   NLIB      Concrete GPS pier JPL 4007 S
 S001              7612          VLBA reference point (intersection of axes)

40466  KITT PEAK
 S001              7610          25-m VLBA antenna reference point

40469  CHINA LAKE
 M001                   COSO      1" DIAMETER RING/ 0.75" ROD /GRANITIC BASEMENT

40471  HANCOCK
 S001              7618          25-M VLBA antenna reference point

40472  COLORADO SPRINGS
 S001                             GPS OCS monitor station
 S003                   AMCT      TurboRogue SNR12 Ser T247; DM T ANTENNA Ser
                                  308/ARP; 24-MAR-1998 to 14-OCT-1998
 S004                   AMC2      TURBOROGUE SNR12 Ser T245; DM T ANTENNA Ser
                                  308/ARP; 15-OCT-1998 to present

40473  BREWSTER
 M001                   BREW      Divot on a SCIGN mount
 S001              7614          25-M VLBA antenna reference point

40474  LAKE MATHEWS
 M001                   MATH      PGGA Mark
 M002                   MAT2      Top of center support screw on SCIGN D3
                                  antenna adaptor

40475  WAIMEA (HAWAII)
 S001                        WAIA DORIS antenna ref. pt (Alcatel type)

40476  HAWAIIAN VOLCANO OBSERVATORY
 S001                        HVOA DORIS antenna ref. pt (Alcatel type)

40477  MAUNA KEA
 M001                   MKEA      GPS MARKER
 S001              7617          25-M VLBA antenna reference point

40478  CHATSWORTH
 M001                   CHTP      PGGA Mark (stainless steel pin in rock)
 M002                   ROCK      ROCKETDYNE/PIPE IN SANDSTONE
 M101                   OATT      Oatt Mountain/concrete bunker/ss-pin JPL
                                  4029-s
 S101                   OAT2      OATT MOUNTAIN / DM T ANTENNA / ARP

40479  BLYTHE
 M001                   BLYT      PGGA Mark Nov. 1993

40480  BOMMER CANYON
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 M001                    TRAK      PGGA Mark sandstone rock/stainless steel rod

40481  YUCAIPA
 M001                    CRFP      PGGA Mark

40482  LONG BEACH CITY
 M001                    LBCH      JPL 4500-s
 M002                    LBC1      Raised nipple on the lower part of the antenna
                                   adaptor
 M003                    LBC2      Raised nipple on the lower part of the antenna
                                   adaptor

40483  WESTLAKE/ALLEN OSBORNE AND ASSOCIATES
 S001                    AOA1      ROGUE SNR-8000/DM T/ARP 07-SEP-94 -

40484  CHILAO FLATES/SAN GABRIEL MOUNTAINS
 M001                    CHIL      3/4" Vert. Stainless steel rod with brass
                                   adaptor

40485  LONGDON YARD/IRWINDALE
 M001                    LONG      3/4" Vert. Stainless steel rod with brass
                                   adaptor

40486  PINEMEADOW
 M001                    ROCH      PGGA Marker

40487  LOS ANGELES
 M001                    USC1      Univ. of South Calif./Steel Pillar on Vault
 M002                    UCLP      Univ. of Calif./ GPS marker
 M003                    DSHS      Dorsey High School/Raised nipple on the lower
                                   part of the antenna adaptor
 M004                    FXHS      Fairfax High School/Raised nipple on the lower
                                   part of the antenna adaptor
 M005                    ELSC      East L.A. Science Center/Raised nipple on the
                                   lower part of the antenna adaptor
 M006                    WRHS      Westchester High School/Raised nipple on the
                                   lower part of the antenna adaptor
 M007                    MHMS      Markham Middle School / Top of center support
                                   screw on SCIGN D3 antenna adaptor
 M008                    PKRD      Elysian Park/Top of center support screw on
                                   scign d3 antenna
 M009                    MTA1      Civic Center MTA / Drilled hole in top of
                                   center support bolt of antenna adaptor

40488  CATALINA ISLAND
 M001                    CAT1      STAINLESS STEAL PIN JPL 4506-S

40489  HAT CREEK
 M001                              Mark NCMN B
 S001              7218            26m VLBI ref. point of radio telescope

40490  MARYLAND POINT
 S001              7217            (26m) 85-foot radiotelescope

40491  FLAGSTAFF
 M002              7891            Mark SLR (RMT N 4 1981)
 M003              7261            Mobile VLBI mark

40492  VERNAL
 M001              7892            Mobile SLR and VLBI mark (NCMN 1981)
 M002              7290            Mobile SLR and VLBI mark (NCMN 1985)

40493  YUMA
 M001              7894            Mobile SLR and VLBI mark

40496  PLATTEVILLE
 M001              7112            Moblas 7112-1980 standard NASA disk
 M002              7258            NCMN 1981 mobile VLBI NGS station disk

40497  MONUMENT PEAK
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 M001             7110           ORT station 7110-1981 standard NASA disk
 M002             7220           ARIES ORION STA 7220-1981
 M003             7274           NCMN 1983 mobile VLBI NGS disk
 M004                  MONP      PGGA MARK

40498  VLA
 S001             7619           VLA INTERFEROMETER Ref. Pt.

40499  RICHMOND
 M001                            Timer 1962
 M002             7295 RCM2      Mark SLR
 M005                  RCM4      Stainless steel plate (Richmond 1993)
 S001             7219           65 foot VLBI antenna
 S009                            TI4100 FRPA-2/L1/L2 09-FEB-88 - 24-FEB-89
 S011                            MINI MAC 2816AT/L1 05-FEB-89 -
 S013                            MINI MAC 2816AT/Bottom of the antenna
 S015                       RICA DORIS 1 antenna ref. pt (Alcatel type)
 S016                       RIDA DORIS 2 antenna ref. pt (Alcatel type)
 S017                  RCM3      Turbo Rogue SNR-8000/DM T/BPA 26-OCT-93
 S018                  RCM5      Turbo Rogue SNR-8000/DM T/BPA 11-OCT-93
 S019             7201           VLBI ANTENNA REF. POINT
 S020                  RCM6      Turbo Rogue SNR-8000/DM T/BPA 1-NOV-96

40503  SOCORRO ISLAND
 M002                            DORIS 2 mark
 M003                            Mark NGS/NOAA BM-3
 M004                            Mark CIFSA III "Mojonera"
 M005                            Mark NGS/NOAA BM-5
 S002                       SOCA DORIS 1 antenna ref. pt (Alcatel type)
 S003                       SODA DORIS 2 antenna ref. pt (Alcatel type)
 S004                       SODB DORIS 3 antenna ref. pt. (Starec type)

40504  MAZATLAN
 M001             7122           MOBLAS 7122-1983 standard NASA disk

40505  CABO SAN LUCAS
 M001             7882           Mark SLR 7882 1983

40506  ENSENADA
 M001             7883           SLR mark 7883

40507  AGUASCALIENTES (INEGI)
 M001                  INEG      Concrete pillar/GPS EPOCH 92 marker

40508  CICESE
 M001                  CICE      HIGH CONCRETE PILLAR JPL 3235
 M002                  CIC1      Geodetic ground marker under mobile geodetic
                                 system (GPS)

40509  MEXICO CITY
 M001                  UIGF      Stainless steel spike/Concrete column

40510  POPOCATEPETL
 M001                  POPN      Stainless steel spike
 M002                  POPW      Stainless steel spike

40511  SIERRA SAN PEDRO
 M001                  SPMX      Raised nipple on the lower part of the GPS
                                 antenna adaptor

40512  ISLA GUADALUPE
 M001                  GUAX      Drilled hole in top of center support bolt of
                                 antenna adaptor

40513  MANZANILLO
 S001                  MANZ      ASH701933B_M  SNOW antenna / ARP

40601  MOIN/COSTA-RICA
 M001                  MOIN      UNAVCO antenna mount/Pillar/Roof RECOPE
                                 building
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40701  SANTIAGO DE CUBA
 M001                  SCUB      GPS pillar on the roof of the Geodynamical
                                 Observatory
 S001             1953           SLR IAR

40901  GUATEMALA CITY
 S001                  GUAT      Trimble SSI / ARP

41101  TEGUCIGALPA
 S001                  TEGU      Trimble SSI / GPS ARP

41102  SAN LORENZO
 S001                  SLOR      Trimble SSI / GPS ARP

41201  MANAGUA
 S001                  MANA      Trimble SSi GPS antenna/ARP

41202  ESTELI
 S001                  ESTI      Trimble SSi GPS antenna/ARP

41401  SAN SALVADOR
 S001                  SSIA      Trimble 4000SSi/GPS ARP

41505  BUENOS-AIRES
 M002                  IGMO      Terrace IGM building / Concrete pillar / Brass
                                 Mark
 S006                            GPS DMA TI4100 / L1
 S007                  ARGN      NIMA GPS antenna ASH700936B_M 11941 / ARP

41507  RIO GRANDE
 M002                            DORIS 2 mark
 M003                  RIOZ      Small concrete block/threaded brass mark on a
                                 triangular plate
 M004                  RIOG      Concrete pillar / threaded brass mark on a
                                 triangular plate
 M005                            Mark on concrete pillar (DORIS 3)
 S003                       RIOA DORIS 1 antenna ref. pt (Alcatel type)
 S004                       RIOB DORIS antenna ref. pt. (Starec type)
 S005                       RIPB DORIS antenna ref. pt. (Starec type)

41510  LA PLATA
 M001                  LPGS      CONCRETE PILLAR

41511  CORDOBA GPS SITE
 M001                  CORD      Center point of a buried s/s conquest pin

41512  BAHIA BLANCA
 M001                  VBCA      Top building Universidad Nacional del Sur /
                                 brass plate with a central hole

41513  RAWSON
 M001                  RWSN      Screw fixed on top of metal tower

41514  SALTA
 M001                  UNSA      Stable pillar on the roof of a small building
                                 at the university Salta

41515  USHUAIA I
 S001                  AUTF      GPS ASH700936D_M   SNOW/ARP

41516  BASE ORCADAS
 S001                  BIOR      GPS ASH700936D_M  SNOW / ARP

41517  CAUCETE
 S001                  CFAG      GPS ASH700936D_M  SNOW / ARP

41518  LIHUE CALEL
 S001                  LHCL      GPS ASH700936D_M  SNOW / ARP
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41519  USHUAIA II
 S001                    PNTF      GPS ASH700936D_M  SNOW / ARP

41520  TUCUMAN
 S001                    TUCU      GPS ASH700936D_M  SNOW / ARP

41602  FORTALEZA
 M001                    FORT      Bronze plate SAT92009
 S001              7297            45-foot VLBI antenna

41603  CUIBA
 M001                    CUIB      Concrete pillar with forced centering device
                                   in the top of a water reservoir (92583)

41604  NATAL
 S001              7929            SLR IAR

41606  BRASILIA
 M001                    BRAZ      CONCRETE PILLAR JPL 4024-S

41608  RIO DE JANEIRO
 M001                    RIOD      Concrete pillar (height 0.96m) with forced
                                   centering device / 91720

41609  CACHOEIRA PAULISTA
 M002                              DORIS mark
 M003                    CHPI      Concrete Pillar / Dimple on a steel pin
 S001                         CACB DORIS antenna ref. pt. (Starec type)

41610  CURITIBA/PARANA
 M001                    PARA      Concrete pillar with forced centering device
                                   near the Space Geodesy Lab of UFPR (91105)

41611  PRESIDENTE PRUDENTE
 M001                    UEPP      Concrete pillar with forced centering device
                                   (91559)

41612  BOM JESUS DA LAPA
 M001                    BOMJ      Concrete pillar with forced centering device
                                   in the top of a one-floor building (93030)

41613  VICOSA
 M001                    VICO      Concrete pillar with forced centering device
                                   in the top of a two-floor building (91696)

41614  MANAUS
 M001                    MANU      Concrete pillar with forced centering device
                                   in the top of a two-floor building (91300)

41615  IMPERATRIZ
 M001                    IMPZ      Concrete pillar with forced centering device
                                   in the top of a two-floor building (92165)

41616  PORTO ALEGRE
 M001                    POAL      Universidade Federal do Rio Grande do Sul /
                                   two-floor building / concrete pillar / forced
                                   centering device

41617  RECIF
 M001                    RECF      Concrete pillar with forced centering device

41618  SALVADOR
 M001                    SALV      Concrete pillar with forced centering device

41619  CRATO
 M001                    CRAT      Concrete pillar with forced centering device /
                                   92300

41703  EASTER ISLAND
 M001              7061            TLRS-2 7061-1983 NASA-GSFC station disk
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 M002             7097           TLRS-2 7097-1986 NASA brass disk
 M003                  EIS1      GPS mark JPL 4008-S
 M004                            DORIS mark
 M005                            Concrete block / 12 mm domed brass mark (DORIS
                                 2)
 M006                            Tide gauge / mark Instituto Hidrografico
                                 CF-18a
 S008                       EASA DORIS antenna ref. pt (Alcatel type)
 S009                       EASB DORIS antenna ref. pt. (Starec type)

41705  SANTIAGO
 M001             7400           Mark SLR
 M002                            GPS Mark (GIG'91)
 M003                  SANT      GPS Mark JPL 4001-S
 M004             7404           SLR MARKER 7404
 M005                  SANG      Brass disk / .3m x .3m x 1.m concrete block
                                 (Marker 12M-A 92)
 S004                            ROGUE SNR-8/DM R/L1 15-JAN-91 -
 S006             1404           12m VLBI antenna IAR
 S007                       SANA DORIS 1 antenna ref. pt. (Alcatel type)
 S008                       SAOB DORIS 2 antenna ref. pt. (Starec type)
 S009                       SANB DORIS 3 antenna ref. pt. (Starec type)

41706  CERRO TOLOLO
 M001             7401           Mark SLR

41708  IQUIQUE
 S001                       IQUB DORIS Ant. Ref. Pt.
 S002                  IQQE      Ashtech Dorne-Margolin chokering antenna
                                 serial # 12470 / BPA

41709  SEST
 S001             7239           VLBI antenna

41710  CARIQUIMA
 S001                       CARB DORIS Ant. Ref. Pt.

41712  VALPARAISO
 S001                  VALP      Ashtech Dorne-Margolin chokering antenna
                                 S/N:CR14321/ARP

41713  ANTUCO
 S001                  ANTC      Ashtech Dorne-Margolin chokering antenna
                                 serial # 12462 / BPA

41714  COPIAPO
 S001                  COPO      Ashtech Dorne-Margolin chokering antenna
                                 serial # 12473 / BPA

41715  COYHAIQUE
 S001                  COYQ      Ashtech Dorne-Margolin chokering antenna
                                 serial # 12479 / BPA

41716  PUNTA ARENAS I
 S001                  PARC      Ashtech Dorne-Margolin chokering antenna
                                 serial # 12472 / BPA

41717  PUERTO WILLIAMS
 S001                  PWMS      Ashtech Dorne-Margolin chokering antenna
                                 serial # 12481 / BPA

41718  PUNTA ARENAS II
 M001                  PUN1      GPS MARKER PARE

41719  CONCEPCION
 M001             7405           Geodetic ground marker / SLR TIGO
 M002                  CONZ      Concrete pilar with stainless steal
                                 construction with 5/8" thread
 M003             7761           Steal plate on the top of Steal tube
                                 vertically mounted at wall of house for
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                                        gravimeter
 S001             7640                  Intersection of axes of TIGO-radiotelescope

41901  BOGOTA
 M001                        BOGT       GPS MARKER JPL 4022-S/INGEOMINAS COMPLEX
 M002                        BOGA       Brass plate on a flat roof under a pillar

41902  CARTAGENE
 M001                        CART       Aluminium plate/Top of Pillar

42003  QUITO III
 S003                        ECUA       NIMA GPS antenna ASH700936B_M 11935 / ARP

42004  SAN CRISTOBAL (GALAPAGOS)
 M002                                   DORIS mark
 S001                             GALA  DORIS antenna ref. pt (Alcatel type)

42005  SANTA CRUZ
 M001                        GALA       DARWIN STATION / GPS MARKER

42006  RIO BAMBA
 M001                        RIOP       5/8-inch threaded stainless steel pin cemented
                                        into concrete pillar

42202  AREQUIPA
 M002                                   Satellite mark 1961
 M003             7403                  Mark SLR
 M004                                   East Satellite mark Ref. 1
 M005                        AREQ       GPS marker JPL 4021-s
 M006                                   DORIS 1 mark
 M007                                   Concrete pillar / mark (DORIS 2)
 S001             7907                  SAO-2 fixed laser
 S005                             AREA  DORIS antenna ref. pt (Alcatel type)
 S006                             AREB  DORIS antenna ref. pt. (Starec type)

42301  MONTEVIDEO
 M001                        MON1       GPS MARKER PILLAR ON THE ROOF OF A BUILDING

42402  MARACAIBO
 M001                        MARA       Concrete pillar with forced centering on the
                                        top of the building "Facultad de Ingenieria"

42501  BERMUDA
 M001             7067                  Mark SLR
 M002             7294                  Mobile VLBI mark
 S004                        BRMU       Turbo Rogue SNR-8000/DM T/BPA 12-MAR-93

42601  KINGSTON
 S001                        JAMA       GPS ARP / AOAD/M_TA_NGS S/N: 114

43001  THULE
 M001                        THU1       BUILDING ROOF/RECTANGULAR PLATE
 M002                        THU2       Bolt in 1.5 meter concrete pillar

43005  KELLYVILLE (KANGERLUSSUAQ)
 M001                        KELY       KELLYVILLE/1M CONCRETE PILLAR/STEEL PLATE

43006  SCORESBYSUND
 M001                        SCOB       Top of 4 meter steel mast

43007  QAQORTOQ
 M001                        QAQ1       BRASS BOLT IN 2 M CONCRETE PILLAR

43201  SAINTE CROIX
 M001                        CRO1       VLBA RM 1 JPL 4023
 S001             7615                  25-M VLBA antenna reference point

43401  BRIDGETOWN
 S001                        BARB       BPA/Ashtech Chokering with Dome  CR1537
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43602  GRAND TURK
 M001                            Mark SKI 1952
 M002              7068          Mark SLR

43605  FREEPORT
 S001                    FREE    ASH701933B_M  SNOW antenna / ARP

49601  PARKFIELD
 M001                    HOGS    Hogs / Drilled hole in top of center support
                                 bolt of SCIGN D3 antenna adaptor
 M002                    MASW    Mason West / Drilled hole in top of center
                                 support bolt of antenna adaptor

49602  SANTA ANA MOUNTAINS
 M001                    MJPK    Drilled hole in top of center support bolt of
                                 antenna adaptor

49603  LAKE FOREST
 M001                    WHYT    Drilled hole in top of center support bolt  of
                                 SCIGN D3 antenna adaptor

49604  DARLINGTON
 S001                    FDTC    TRIMBLE 4000SSI / TRM29659.00 / ARP

49605  PALISADES
 S001                    LAMT    TRIMBLE 4000SSI / TRM29659.00 / DOME / ARP

49606  FAN MOUNTAIN
 S001                    UVFM    TRIMBLE 4000SSI / TRM29659.00 / DOME / ARP

49607  ST. LOUIS
 M001                    NIMA    Brass disks cemented in concrete/GPS Station
                                 85401

49608  NEENACH
 M001                    ALPP    Drilled hole in top of center support bolt of
                                 antenna adaptor

49609  PARKFIELD/LOWES
 M001                    LOWS    Lowes/Drilled hole in top of center support
                                 bolt of antenna adaptor

49610  PARKFIELD/RANCHITA
 M001                    RNCH    Drilled hole in top of center support bolt of
                                 antenna adaptor

49611  EL CARISO
 M001                    ECFS    Drilled hole in top of center support bolt of
                                 antenna adaptor

49612  SAGINAW
 S001                    BAYR    LEICA RS500  / LEIAT504 / ARP

49613  BRIGHTON
 S001                    BRIG    LEICA RS500 / LEIAT504 / ARP

49614  CONOVER
 S001                    CONO    TRIMBLE 4700 / TRM33429.20+GP / ARP

49615  GRAND RAPIDS
 S001                    GRAR    LEICA RS500 / LEIAT504 / ARP

49616  HAWK RUN
 S001                    HRN1    ASHTECH Z-XII3 / ASH700829.3 SNOW / ARP
 S002                    HRN2    ASHTECH Z-XII3 / ASH700829.3  SNOW / ARP

49617  AUBURN HILLS
 S001                    METR    LEICA RS500 / LEIAT504 / ARP

49618  CADILLAC
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 S001                    NOR1      LEICA RS500 / LEIAT504 / ARP

49619  GAYLORD
 S001                    NOR2      LEICA RS500 / LEIAT504 / ARP

49620  ALPENA
 S001                    NOR3      LEICA RS500 / LEIAT504 / ARP

49621  KALAMAZOO
 S001                    SOWR      LEICA RS500 / LEIAT504 / ARP

49622  L ANSE
 S001                    SUP1      LEICA RS500 / LEIAT504 / ARP

49623  ASCANABA
 S001                    SUP2      LEICA RS500 / LEIAT504 / ARP

49624  JACKSON
 S001                    UNIV      LEICA RS500 / LEIAT504 / ARP

49625  LIBERTYVILLE
 S001                    LCDT      TRIMBLE 5700 / TRM41249.00 / ARP

49626  PARKFIELD/CAMP ROBERTS
 M001                    CRBT      Drilled hole in top of center support bolt of
                                   SCIGN D3 antenna adapotor.

49627  PARKFIELD/TABLE
 M001                    TBLP      Drilled hole in top of center support bolt of
                                   SCIGN D3 antenna adaptor

49628  NEEDLES
 M001                    NDAP      Drilled hole in top of center support bolt of
                                   antenna adaptor

49629  NEWBERRY
 S001                    SUP3      LEICA RS500 / LEIAT504 / ARP

49630  Pueblo, Colorado
 S001                    PUB1      ASH700829.3  SNOW / ARP
 S002                    PUB2      ASH700829.3  SNOW / ARP

49631  Lebanon, Ohio
 S001                    LEBA      TRM29659.00 / ARP

49632  Gustavus, Ohio
 S001                    GUST      TRM29659.00 / ARP

49633  McConnelsville, Ohio
 S001                    MCON      TRM29659.00 / ARP

49634  Ellensburg, Washington (CORS)
 S001                    SC00      TRM29659.00 / ARP

49635  Tumwater Hill, Washington
 S001                    TWHL      ASH701945B_M / ARP

49636  Bismark, North Dakota
 S001                    BSMK      TRM41249.00 / ARP

49637  Adrian, Michigan
 S001                    ADRI      LEIAT504 / ARP

49638  Twentynine Palms
 M001                    BEMT      Drilled hole in top of center support bolt of
                                   antenna  adaptor

49639  MT. PLEASANT
 S001                    MPLE      LEICA RS500 / LEIAT504 / ARP
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49640  PRUDHOE BAY
 S001                  CCPT      TRIMBLE 5700 / TRM4124900 / ARP
 S002                  PBOC      TRIMBLE 5700 / TRM4124900 / ARP

49641  Columbus, Ohio
 S001                  COLB      TRIMBLE 5700 / TRM29659.00 / ARP

49642  La Grande, Washington
 S001                  CPXF      ASHTECH Z-XII3 / ASH701945_M / ARP

49643  Defiance, Ohio
 S001                  DEFI      TRIMBLE 5700 / TRM29659.00 /ARP

49644  Freeport, Ohio
 S001                  FREO      TRIMBLE 5700 / TRM29659.00 / ARP

49645  Laredo, Texas
 S001                  LARD      TRIMBLE 4000SSE / TRM22020.00+GP / ARP

49646  Myton, Utah
 S001                  MYT1      ASHTECH Z-X113 / ASH700829.3 / ARP
 S002                  MYT2      ASHTECH Z-X113 / ASH700829.3 / ARP

49647  Houston, Texas
 S001                  NETP      TRIMBLE 4000SSI / TRM29659.00 / ARP

49648  Pharr, Texas
 S001                  PHAR      TRIMBLE 4000SSE / TRM22020.00+GP / ARP

49649  Piketon, Ohio
 S001                  PKTN      TRIMBLE 5700 / TRM29659.00 / ARP

49650  Pine River, Minnesota
 S001                  PNR1      ASHTECH Z-XII3 / ASH700829.3 / ARP
 S002                  PNR2      ASHTECH Z-XII3 / ASH700829.3 / ARP

49651  Sidney, ohio
 S001                  SIDN      TRIMBLE 5700 / TRM39659.00 / ARP

49652  Tiffin, Ohio
 S001                  TIFF      TRIMBLE 5700 / TRM29569.00 / ARP

49653  Wooster, Ohio
 S001                  WOOS      TRIMBLE 5700 / TRM29659.00 / ARP

49700  ISLA VISTA
 M001                  COPR      Drilled hole in top of center support bolt of
                                 antenna adaptor

49701  Niland
 M001                  GLRS      Top of center support screw on SCIGN D3
                                 antenna adaptor

49702  Coachella
 M001                  CACT      Top of center support screw on SCIGN D3
                                 antenna adaptor

49703  Corona
 M001                  CNPP      Top of center support screw on SCIGN  D3
                                 antenna adaptor

49704  Santa Monica
 M001                  CIRX      Top of center support screw on SCIGN  D3
                                 antenna adaptor

49705  Encino
 M001                  VIMT      Top of center support screw on SCIGN  D3
                                 antenna adaptor

49706  South El Monte
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 M001                    WNRA      Top of center support screw on SCIGN  D3
                                   antenna adaptor

49707  Ojai
 M001                    HVYS      Top of center support screw on SCIGN  D3
                                   antenna adaptor
 M002                    NHRG      Top of center support screw on SCIGN  D3
                                   antenna adaptor

49708  Tajiguas
 M001                    TJRN      Top of center support screw on SCIGN  D3
                                   antenna adaptor

49709  Llano
 M001                    LL01      Top of center support screw on SCIGN  D3
                                   antenna adaptor

49710  Santa Barbara
 M001                    RCA2      Top of center support screw on SCIGN  D3
                                   antenna adaptor

49711  Barstow
 M001                    ORMT      Shallow rod/braced antenna mount

49712  Los Olivos
 M001                    FGST      Top of center support screw on SCIGN  D3
                                   antenna adaptor

49713  Ludlow
 M001                    CDMT      Shallow rod/braced antenna mount

49714  San Luis Obispo
 M001                    USLO      Top of center support screw on SCIGN  D3
                                   antenna adaptor

49715  Unincoropated Kern County
 M001                    RAMT      Top of center support screw on SCIGN  D3
                                   antenna adaptor

49716  DYER/ESMERALDA
 S001                    DYER      GPS/ARP TRIMBLE 4000SSI, TRM29659.00

49717  ECHO CANYON STATE PARK
 S001                    ECHO      GPS ARP/ TRIMBLE 4000SSI, TRM29659.00

49718  FERNO MESA
 S001                    FERN      GPS ARP/ TRIMBLE 4000SSI, TRM29659.00

49719  FREDONIA
 S001                    FRED      GPS ARP/ TRIMBLE 4000SSI, TRM29659.00

49720  GABBS
 S001                    GABB      GPS ARP/ TRIMBLE 4000SSI, TRM29659.00

49721  GARLIC/EMPIRE
 S001                    GARL      GPS ARP / TRIMBLE 4000SSI, TRM29650.00

49722  HUDSON FALLS
 S001                    HDF1      GPS ARP / ASHTECH Z-XII3    ASH700829.3   SNOW
 S002                    HDF2      GPS ARP / ASHTECH Z-XII3    ASH700829.3   SNOW

49723  NEW BERN
 S001                    NBR1      GPS ARP / ASHTECH Z-XII3    ASH700829.3   SNOW
 S002                    NBR2      GPS ARP / ASHTECH Z-XII3    ASH700829.3   SNOW

49724  RAILROAD VALLEY
 S001                    RAIL      GPS ARP / TRIMBLE 4000SSI, TRM29659.00

49725  UPSAL HAGBACK
 S001                    UPSA      GPS ARP / TRIMBLE 4000SSE, TRM29659.00
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49726  OJAI/ROSE VALLEY
 M001                   RSVY      Top of center support screw on SCIGN D3
                                  antenna adaptor

49727  KELSO
 M001                   GMRC      Top of center support screw on SCIGN D3
                                  antenna adaptor

49728  AVALON
 M001                   CAT2      Top of center support screw on SCIGN  D3
                                  antenna adaptor

49729  SOLVANG
 M001                   BBDM      Top of center support screw on SCIGN  D3
                                  antenna adaptor

49730  GRAPEVINE/EDMONSTON PUMPING PLANT
 M001                   EDPP      Top of center support screw on SCIGN  D3
                                  antenna adaptor

49731  EAGLE ROCK
 M001                   OXYC      Top of center support screw on SCIGN D3
                                  antenna adaptor

49732  SILVER LAKE
 M001                   SILK      Top of center support screw on SCIGN  D3
                                  antenna adaptor

49733  SANTA PAULA/SOUTH MOUNTAIN
 M001                   SOMT      Top of center support screw on SCIGN D3
                                  antenna adaptor

49734  SANTA ROSA ISLAND
 M001                   SRS1      Top of center support screw on SCIGN D3
                                  antenna adaptor

49735  NEWBERRY SPRINGS/TROY
 M001                   TROY      JPL 0.0614 m fixed-height spike mount over
                                  survey mark reference point

49736  West SAN GABRIEL MOUNTAINS
 M001                   BRPK      Drilled hole in top of center support bolt of
                                  antenna adaptor

49737  ARVIN
 M001                   ARM1      Drilled hole in top of center support bolt of
                                  antenna adaptor
 M002                   ARM2      Drilled hole in top of center support bolt of
                                  antenna adaptor

49738  FRAZIER PARK
 M001                   CCST      Drilled hole in top of center support bolt of
                                  antenna adaptor

49739  OZENA
 M001                   OZST      Drilled hole in top of center support bolt of
                                  antenna adaptor

49740  CASITAS SPRINGS
 M001                   CSST      Top of center support screw on SCIGN  D3
                                  antenna adaptor

49741  SAN MIGUEL ISLAND
 M001                   MIG1      Drilled hole in top of center support of
                                  antenna adaptor

49742  VENTURA
 M001                   VNCO      Drilled hole in top of center support of
                                  antenna adaptor
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49743  SUMMERFIELD
 S001                  SUM1      ASHTECH Z-XII3 / ASH700829.3 / SNOW
 S002                  SUM2      ASHTECH Z-XII3 / ASH700829.3 / SNOW

49744  POLSON
 S001                  PLS1      ASHTECH Z-XII3 / ASH700829.3 / SNOW
 S002                  PLS2      ASHTECH Z-XII3 / ASH700829.3 / SNOW

49745  SPOKANE
 S001                  SPN1      ASHTECH Z-XII3 / ASH700829.3 / SNOW
 S002                  SPN2      ASHTECH Z-XII3 / ASH700829.3 / SNOW

49746  CORBIN
 S001                  CORB      GPS ARP / TRIMBLE 4000SSI  /  AOAD/M_T

49747  BARTLETT
 S001                  BARN      GPS ARP / TRIMBLE 4000SSI  /  TRM33429.00+GP

49748  EL PASO
 S003                  ELP3      GPS ARP / TRIMBLE 4000SSE  /  TRM22020.00+GP

49749  LAS VEGAS VALLEY
 S001                  LVWD      GPA ARP / TRIMBLE 4000SSI  /  TRM23903.00

49750  PRICE/CARBON COUNTY
 S001                  PUC1      GPS ARP / TRIMBLE 4700  /  TRM33429.20+GP

49751  MARICOPA
 M001                  BCWR      Drilled hole in top of center support bolt of
                                 antenna adaptor

49752  S. SIERRA NEVADA
 M001                  BEPK      Drilled hole in top of center support bolt of
                                 antenna adaptor

49753  BAKER
 M001                  BKAP      Top of center support screw on SCIGN D3
                                 antenna adaptor

49754  TAFT
 M001                  BVPP      Drilled hole in top of center support bolt of
                                 antenna adaptor

49755  RIDGECREST
 M001                  CCCC      Drilled hole in top of center support bolt of
                                 antenna adaptor

49756  BORON
 M001                  CPBN      Drilled hole in top of center support bolt of
                                 antenna adaptor

49757  CAMARILLO
 M001                  CSCI      Top of center support screw on SCIGN  D3
                                 antenna adaptor

49758  CALIFORNIA VALLEY
 M001                  GDEC      Drilled hole in top of center support bolt of
                                 antenna adaptor

49759  BRISTOL MOUNTAIN
 M001                  I40A      Drilled hole in top of center support bolt of
                                 antenna adaptor

49760  BARSTOW/LANE MOUNT.
 M001                  LNMT      Drilled hole in top of center support / bolt
                                 of antenna adaptor

49761  TEHACHAPI
 M001                  THCP      Drilled hole in top of center support bolt of
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                                    antenna adaptor

49762  VENTUCOPA
 M001                   VCST        Drilled hole in top of center support bolt of
                                    antenna adaptor

49763  CAPE BLANCO, OREGON
 M001                   CABL        punch mark on top of drilled braced monument

49764  TILLAMOOK, OREGON
 M001                   CHZZ        punch mark on top of drilled braced monument

49765  ROSEBURG, OREGON
 M001                   DDSN        Center punch on top of invar rod

49766  GOLDENDALE, WASHINGTON
 M001                   GOBS        center punch on top of drilled braced monument

49767  ELLENSBURG, WASHINGTON
 M001                   LIND        center punch on top of rod mounted on top of
                                    building

49768  PACIFIC BEACH, WASHINGTON
 M001                   PABH        center punch on top of drilled braced monument
 M001                   PABH        center punch on top of drilled braced monument

49769  POINT ST. GEORGE, CA
 M001                   PTSG        center punch on top of drilled braced monument

49770  REDMOND, OREGON
 M001                   REDM        center punch on top of invar rod set in
                                    bedrock

49771  DENIO, NEVADA
 M001                   SHLD        center punch on top of drilled braced monument

49772  TRINIDAD HEAD, CA
 M001                   TRND        center punch on top of invar rod set in
                                    bedrock

49773  Paul Smith College
 S001                   PSC1        GPS ARP / ASH701933B_M    SNOW

49774  WILMINGTON
 S001                   WILR        GPS ARP / TRM22020.00+GP

49775  WASHINGTON (NC)
 S001                   WASR        GPS ARP / TRM33429.00+GP

49776  RALEIGH
 S001                   RALR        GPS ARP / TRM22020.00+GP

49779  MENTONE
 M001                   7ODM        Drilled hole in top of center support bolt of
                                    antenna adaptor

49780  WILLMINGTON (CA)
 M001                   HBCO        Drilled hole in top of center support bolt of
                                    antenna adaptor

49781  SILVERADO
 M001                   OEOC        Drilled hole in top of center support bolt of
                                    antenna adaptor

49782  TIPTONVILLE
 S001                   RLAP        Reelfoot Lake Airpark / ASH700936D_M  SNOW
                                    antenna serial #11762 / ARP / (901) 253-3179
 S002                   NWCC        Northwest Correctional Center / ASH700936D_M
                                    SNOW antenna serial #503 / ARP (901)253-5244
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49783  PORTAGEVILLE
 S001                  PTGV      Delta Research Center / ASH700936D_M  SNOW
                                 antenna serial #11405 /ARP / (573) 3792314

49784  NORTH LITTLE ROCK
 S001                  CRAR      Camp JT Robinson Army Nat. Guard /
                                 ASH700936D_M SNOW antenna serial #11943 / ARP
                                 (501) 212-5849

49785  PARK HILLS
 S001                  MACC      Minearal Area Community College / ASH700936D_M
                                 SNOW antenna serial #11755 /ARP / (573)
                                 5182321

49786  CHARLESTON (MO)
 S001                  MAIR      Mississippi County Airport / ASH700936D_M SNOW
                                 antenna serial #11408 / ARP / (573) 6838683

49787  PIGGOTT (AR)
 S001                  PIGT      Water Treatment Plant / ASH700936D_M SNOW
                                 antenna serial #401 /ARP / (870) 5982946

49788  CARUTHERSVILE (MO)
 S001                  MCTY      Pemiscot County R-III School / ASH700936D_M
                                 SNOW antenna serial #782 / ARP / (573) 3330060

49789  STEELE (MO)
 S001                  STLE      U.S. Supply Handling Equipment / ASH700936D_M
                                 SNOW antenna serial #402 / ARP / (573) 6953730

49790  COVINGTON
 S001                  CVMS      Crestview Middle School / ASH700936D_M SNOW
                                 antenna serial #405 /ARP / (901) 4752534

49791  TROY (TN)
 S001                  HCES      Hillcrest Elementary School / ASH700936D_M
                                 SNOW antenna serial #502 / ARP / (901) 5364609

49792  SAN GABRIEL MOUNTAINS
 M001                  CGDM      drilled hole in top of center support bolt  of
                                 SCIGN D3 antenna adaptor

49793  CHINO HILLS
 M001                  TWMS      Top of center support screw on SCIGN D3
                                 antenna adaptor

49794  BOISE
 S001                  IDTD      ASHTECH UZ-12  /  ASH700936E / ARP

49795  NEWARK
 S002                  NJI2      LEICA SR9500  /  LEIAT303 / ARP

49796  LEVEL ISLAND
 S001                  LEV1      ASHTECH Z-XII3 / ASH700829.3  SNOW / ARP
 S002                  LEV2      ASHTECH Z-XII3 / ASH700829.3  SNOW / ARP

49797  GREENVILLE
 S001                  GVLT      TRIMBLE 4600 / TRM29659.00 / ARP

49798  HAGERSTOWN
 S001                  HAG1      ASHTECH Z-XII3 / ASH700829.3  SNOW /ARP
 S002                  HAG2      ASHTECH Z-XII3 / ASH700829.3 SNOW/ ARP

49799  JOSHUA TREE NAT. PARK
 M001                  KYVW      Drilled hole in top of center  support bolt on
                                 SCIGN D3 antenna adaptor

49800  Glamis
 M001                  GMPK      Top of center support screw on SCIGN D3
                                 antenna adaptor
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49801  POTATO POINT/ALASKA
 S001                   POT1      GPA ARP
 S003                   POT3      GPS ARP /  ASHTECH Z-XII3 (05508), ASH700829.3
                                  (12079)
 S004                   POT4      GPS ARP / ASHTECH Z-XII3 (05507), ASH700829.3
                                  (11943)

49802  GUSTAVUS/ALASKA
 S001                   GUS1      GPS ARP / ASHTECH Z-XII3 (05072), ASH700829.3
                                  (11038)
 S002                   GUS2      GPS ARP / ASHTECH Z-XII3 (05058), ASH700829.3
                                  (11272)

49803  CAPE HINCHINBROOK/ALASKA
 S001                   CHI1      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW
 S003                   CHI3      GPS ARP / ASHTECH Z-XII3 (05501), ASH700829.3
                                  (11948)
 S004                   CHI4      GPS ARP / ASHTECH Z-XII3 (05502), ASH700829.3
                                  (11947)

49804  COLD BAY/ALASKA
 S001                   BAY1      GPS ARP / ASHTECH Z-XII3 (04955), ASH700829.3
                                  (11265)
 S002                   BAY2      GPS ARP / ASHTECH Z-XII3 (05277), ASH700829.3
                                  (11269)

49805  EIELSON AFB
 S001                   ALAS      NIMA GPS antenna ASH700936B_M CR 16559 / ARP

49806  Johnson Valley
 M001                   AGMT      Top of center support screw on SCIGN D3
                                  antenna adaptor

49807  Twentynine Palms/BEARMAT Hill
 M001                   BMHL      Top of center support screw on SCIGN D3
                                  antenna adaptor

49808  Lancaster/Challenger Middle School
 M001                   CHMS      Top of center support screw on SCIGN D3
                                  antenna adaptor

49809  New Cuyama
 M001                   CUHS      Top of center support screw on SCIGN  D3
                                  adaptor

49810  Castaic/Foothill Feeder Facility
 M001                   FHFF      Top of center support screw on SCIGN D3
                                  antenna adaptor
 M002                   CTDM      Drilled hole in top of center support bolt of
                                  antenna adaptor

49811  Fillmore
 M001                   FMTP      Top of center support screw on SCIGN D3
                                  antenna adaptor
 M002                   FMVT      Drilled hole in top of center support bolt of
                                  antenna adaptor

49812  Newberry Springs/Hector Mine
 M001                   HCMN      Top of center support screw on SCIGN D3
                                  antenna adaptor

49813  Ludlow
 M001                   LDSW      Top of drilled divot on N side of monument

49814  Lancaster/Lancaster Injection Well
 M001                   LINJ      Top of a drilled divot in the vertical leg
                                  of the monument

49815  Twentynine Palms/Noble Pass Firing
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 M001                   NBPS      Top of center support screw on SCIGN D3
                                  antenna adaptor

49816  Norco
 M001                   NOCO      Top of center support screw on SCIGN D3
                                  antenna adaptor

49817  Escondido
 M001                   OGHS      Top of center support screw on SCIGN D3
                                  antenna adaptor

49818  Twentynine Palms/Obs. Point Bullion
 M001                   OPBL      Top of center support screw on SCIGN D3
                                  antenna adaptor

49819  Twentynine Palms/Obs. Point Creole
 M001                   OPCL      Top of center support screw on SCIGN D3
                                  antenna adaptor

49820  Twentynine Palms/Crampton
 M001                   OPCP      Top of center support screw on SCIGN D3
                                  antenna adaptor

49821  Twentynine Palms/Obs. Point Cross
 M001                   OPCX      Top of drilled divot on N side of monument

49822  Twentynine Palms/Obs. Point Round
 M001                   OPRD      Top of drilled divot on N side of monument

49823  San Dimas
 M001                   PSDM      Top of center support screw on SCIGN D3
                                  antenna adaptor

49824  Newberry Springs/Rodman Mountain
 M001                   RDMT      Top of center support screw on SCIGN D3
                                  antenna adaptor

49825  Mission Viejo
 M001                   SBCC      Top of center support screw on SCIGN D3
                                  antenna adaptor

49826  Piru
 M001                   SFDM      Top of center support screw on SCIGN D3
                                  antenna adaptor

49827  San Gabriel
 M001                   SGHS      Top of center support screw on SCIGN  D3
                                  adaptor
 M002                   GVRS      Monterey Park / Top of center support screw on
                                  SCIGN  D3 antenna adaptor

49828  Ludlow
 M001                   SIBE      JPL 0.0614 m fixed-height spike mount over
                                  survey mark reference point

49829  Thermal
 M001                   TMAP      Top of center support screw on SCIGN D3
                                  antenna adaptor

49830  Grapevine
 M001                   WGPP      Top of center support screw on SCIGN D3
                                  antenna adaptor

49831  Castaic/Whitiker Peak
 M001                   WKPK      Top of center support screw on SCIGN D3
                                  antenna adaptor

49832  LA CANADA
 M001                   BTDM      Top of center support screw on SCIGN D3
                                  antenna adaptor
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49833  SANTA CLARITA
 M001                  SKYB      Top of center support screw on SCIGN D3
                                 antenna adaptor

49834  BIORKA ISLAND
 S001                  BIS1      GPS ARP / ASHTECH Z-XII3, ASH7000829.3  SNOW
 S002                  BIS2      GPS ARP / ASHTECH Z-XII3, ASH7000829.3  SNOW

49835  SANTA CRUZ ISLAND
 M001                  CRU1      Top of center support screw on SCIGN D3
                                 antenna adaptor

49836  PARKER
 M001                  GNPS      Top of center support screw on SCIGN D3
                                 antenna adaptor

49837  WOODINVILLE
 S001                  DWH1      JPS LEGACY MT312431807 & JPSREGANT_DD_ERA0083

49838  TITUSVILLE
 S001                  UPTC      GPS ARP / TRIMBLE 4000SSI / TRM2390.00
                                 (SN#0220109634)

49839  ORONO
 S001                  ORO_      GPS ARP / ASHTECH Z-XII3, ASH700936E_C

49840  BRUNSWICK
 S001                  BRU1      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49841  CHATHAM
 S001                  CHT1      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49842  NEW CASTLE
 S002                  POR2      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49843  MONTAUK POINT
 S001                  MNP1      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49844  MONTPELIER
 S001                  VCAP      GPS ARP / TRIMBLE 4000SSE, TRM22020.00+GP

49845  CAPE HENLOPEN
 S001                  CHL1      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49846  KITTY HAWK
 S001                  DUCK      GPS ARP / TRIMBLE 4000SSE, TRM22020.00+GP

49847  CAPE HENRY
 S001                  CHR1      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49848  RICHMOND
 S001                  RIC1      GPS ARP / ASHTECH Z-XII3, ASH700936E_C

49849  YOUNGSTOWN
 S001                  YOU1      GPS ARP / ASHTECH Z-XII3, ASH700829.3

49850  PITTSBURGH
 S001                  PIT1      GPS ARP / TRIMBLE 4000SSI, TRM22020.00+GP

49851  CHARLESTON
 S001                  CHA1      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49852  KEY WEST NAVAL
 S001                  KYW1      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49853  ASHEVILLE
 S001                  ASHV      GPS ARP / TRIMBLE 4000SSI, TRM29659.00

49854  DETROIT
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 S001                    DET1      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49855  NEEBISH ISLAND
 S003                    NEB3      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49856  CHEBOYGAN
 S001                    CHB1      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49857  CINCINNATI
 S001                    GALB      GPS ARP / LEICA SR9500, LEIAT303 LEIC

49858  MARIETTA
 S001                    ATL1      GPS ARP / LEICA SR9500, LEIAT303

49859  ERLANDER
 S001                    ERLA      GPS ARP / ASHTECH Z-XII3, ASH700936C_M

49860  WHITEFISH POINT
 S001                    WHP1      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49861  STURGEON BAY
 S001                    STB1      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49862  MILWAUKEE
 S001                    MIL1      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49863  MOBILE
 S001                    MOB1      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49864  UPPER KEWEENAW
 S001                    KEW1      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49865  SUMMERFIELD
 S003                    STL3      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49866  ENGLISH TURN
 S001                    ENG1      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49867  FRENCH BAYOU
 S002                    MEM2      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49868  TEEDS GROVE
 S001                    RIS1      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49869  VICKSBURG
 S001                    VIC1      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49870  ALMA
 S001                    STP1      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49871  WISCONSIN POINT
 S001                    WIS1      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49872  GALVESTON
 S001                    GAL1      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49873  SALLISAW
 S001                    SAL1      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49874  PERRY
 S001                    KAN1      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49875  NEODESHA
 S001                    NDSK      GPS ARP / TRIMBLE 4000SSI, TRM22020.00+GP
 S101                    NDS1      GPS ARP / TRIMBLE 4000SSI  /  TRM22020.00+GP

49876  PALESTINE
 S001                    PATT      GPS ARP / TRIMBLE 4000SSI, TRM22020.00+GP

49877  MORRIS
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 S001                  PATT      GPS ARP / TRIMBLE 4000SSE, TRM23903.00

49878  ARANSAS PASS
 S003                  ARP3      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49879  HAVILAND
 S001                  HVLK      GPS ARP / TRIMBLE 4000SSE, TRM22020.00+GP

49880  WACHAPREAGUE
 S001                  VIMS      GPS ARP / ROGUE SNR-8000, AOAD/M_T

49881  JAYTON
 S001                  JTNT      GPS ARP / TRIMBLE 4000SSI, TRM22020.00+GP

49882  GRANADA
 S001                  GDAC      GPS ARP / TRIMBLE 4000SSE, TRM22020.00+GP

49883  TUCUMCARI
 S001                  TCUN      GPS ARP / TRIMBLE 4000SSE, TRM22020.00+GP

49884  WHITE SANDS
 S001                  WSMN      GPS ARP / TRIMBLE 4000SSI, TRM23903.00

49885  SALT LAKE CITY
 S001                  RBUT      GPS ARP / TRIMBLE 4000SSI, TRM29659.00

49886  POINT LOMA
 S003                  PLO3      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49887  POINT ARGUELLO
 S001                  PAR1      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49888  APPLETON
 S001                  GWEN      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49889  ROBINSON POINT
 S001                  RPT1      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49890  PIGEON POINT
 S001                  PPT1      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49891  POINT BLUNT
 S001                  PBL1      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49892  WHIDBEY ISLAND
 S001                  WHD1      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49893  FORT STEVENS
 S001                  FTS1      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49894  MENDOCINO
 S001                  CME1      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49895  UPOLU POINT
 S001                  UPO1      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49896  KOKOLE POINT
 S001                  KOK1      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49897  Coronados Island
 M001                  CORX      Top of center support screw on SCIGN D3
                                 antenna adaptor

49898  Chula Vista
 M001                  NSSS      Top of center support screw on SCIGN D3
                                 antenna adaptor

49899  Imperial
 M001                  IVCO      Top of center support screw on SCIGN  D3
                                 antenna adaptor
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49900  LOS ALAMOS, CA
 M001                    ORES      Top of center support screw on SCIGN D3
                                   antenna adaptor

49901  WRIGHTWOOD
 M001                    TABL      TABLE MOUNTAIN/SCRIPPS TETRAPOD MONUMENT

49902  MOUNT LEE
 M001                    LEEP      SCIGN GPS MARKER

49903  HOLLYDALE
 M001                    HOLP      SCIGN GPS MARKER

49904  DURMID HILL
 M001                    DHLG      PGGA GPS MARKER /HOLE IN STAINLESS STEEL ROD

49905  PACOIMA
 M001                    DAM1      SCIGN GPS MARKER/THREADED ROCK PIN
 M002                    DAM2      SCIGN GPS MARKER/BUILT PIER
 M003                    CMP9      FIRE CAMP 9/ SCIGN GPS MARKER /THREADED ROCK
                                   PIN
 M004                    WMAP      Raised nipple on the lower part of the antenna
                                   adaptor

49906  CLAREMONT/LA VERNE
 M001                    CLAR      CLAREMONT/SCIGN GPS MARKER/DRIVEN-ROD
 M002                    LORS      LA VERNE/Raised nipple on the lower part of
                                   the antenna adaptor

49907  SOLOMONS ISLAND
 S001                    SOL1      DM T ANTENNA /BPA

49908  ANNAPOLIS
 S001                    USNA      DM T ANTENNA /BPA
 S101                    ANP1      ASHTECH Z-XII3  / ASH700829.3  SNOW / ARP
 S102                    ANP2      ASHTECH Z-XII3 / ASH700829.3  SNOW / ARP

49909  SAN NICOLAS ISLAND
 S001                    SNI1      DM T ANTENNA / ARP /JPL 4507-S

49910  NORTHRIDGE
 S001                    CSN1      DM T ANTENNA / ARP

49911  AZUSA
 M001                    AZU1      GPS MARKER
 M002                    MRDM      Drilled hole in top of center support bolt  of
                                   SCIGN D3 antenna adaptor
 M003                    SGDM      drilled hole in top of center support bolt on
                                   scign d3 antenna adaptor

49912  TORRANCE AIRPORT
 M001                    TORP      SCIGN GPS Marker/Drilled hole in the vertical
                                   pipe

49913  HORN POINT
 S001                    HNPT      Rogue SNR-12/DM T/ARP/Bottom of Flange
                                   13-DEC-1995

49914  KEYBISCAYNE/MIAMI
 S001                    AOML      BPA/Dorne Margolin T  148
 S002                    MIA1      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

49915  SAN CLEMENTE ISLAND
 M001                    SCIP      Divot on north-facing antenna tripod leg

49916  LAKE SKINNER
 M001                    BILL      Peak of center support screw of lower part of
                                   the antenna adaptor
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49917  WIDE CANYON
 M001                    WIDE      Peak of center support screw of lower part of
                                   the antenna adaptor

49918  IRVINE
 S001                    3SNA      3S Navigation R100/40T / TSA-100 / ARP

49919  AVOCADO HEIGHTS
 M001                    VYAS      Raised nipple on the lower part of the antenna
                                   adaptor

49920  CARSON
 M001                    CSDH      Raised nipple on the lower part of the antenna
                                   adaptor
 M002                    CRHS      Raised nipple on the lower part of the antenna
                                   adaptor

49921  COVINA
 M001                    CVHS      Raised nipple on the lower part of the antenna
                                   adaptor
 M002                    WCHS      Raised nipple on the lower part of the antenna
                                   adaptor

49922  DOWNEY
 M001                    DYHS      Raised nipple on the lower part of the antenna
                                   adaptor

49923  LA PUENTE
 M001                    LPHS      Raised nipple on the lower part of the antenna
                                   adaptor

49924  PARAMOUNT
 M001                    PMHS      Raised nipple on the lower part of the antenna
                                   adaptor

49925  PICO RIVERA
 M001                    BKMS      Raised nipple on the lower part of the antenna
                                   adaptor

49926  LEBEC
 M001                    FZHS      Raised nipple on the lower part of the antenna
                                   adaptor
 M002                    LJRN      Frazier Park/ Top of center support screw on
                                   SCIGN  D3 antenna adaptor

49927  BAR HARBOR
 S001                    BARH      TRIMBLE 4000SSI  3748A21042/TRIMBLE CHOKERING
                                   0220088091/ARP

49928  EASTPORT
 S001                    EPRT      TRIMBLE 4000SSI  3748A20591/TRIMBLE CHOKERING
                                   02200108548/ARP

49929  COSTA MESA
 M001                    FVPK      Raised nipple on the lower part of the antenna
                                   adaptor

49930  SOMIS
 M001                    MUSD      Raised nipple on the lower part of the antenna
                                   adaptor

49931  SAN CLEMENTE
 M001                    SCMS      Raised nipple on the lower part of the antenna
                                   adaptor

49932  DIAMOND BAR
 M001                    SPMS      Raised nipple on the lower part of the antenna
                                   adaptor

49933  ATHENS/LOS ANGELES
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M001		LASC	Raised nipple on the lower part of the antenna adaptor
49934	PALMER/ALASKA		
M001		ATWC	0.7 m concrete pad/Reference point on SCIGN antenna adaptor
49935	COLLEGE/ALASKA		
M001		CLGO	Concrete pillar/top of brass rod
49936	GARNER/ALASKA		
M001		GRNR	Bedrock/concrete pillar/bottom of threads of an invar rod
49937	BIG BEAR		
M001		BBRY	Raised nipple on the lower part of the antenna adaptor
49938	PALOMAR MOUNTAIN		
M001		PMOB	Raised nipple on the lower part of the antenna adaptor
49939	LAKE ARROWHEAD		
M001		MSOB	Raised nipple on the lower part of the antenna adaptor
49940	BARSTOW		
M001		BSRY	Raised nipple on the lower part of the antenna adaptor
49941	RIALTO		
M001		RTHS	Raised nipple on the lower part of the antenna adaptor
49942	SANTA BARBARA		
M001		UCSB	Raised nipple on the lower part of the antenna adaptor
49943	WESTMORLAND		
M001		CRRS	Raised nipple on the lower part of the antenna adaptor
49944	IDYLLWILD		
M001		DSSC	Raised nipple on the lower part of the antenna adaptor
49945	RIVERSIDE		
M001		MLFP	Raised nipple on the lower part of the antenna adaptor
49946	PLACENTIA		
M001		CCCS	Raised nipple on the lower part of the antenna adaptor
49947	COMPTON		
M001		CCCO	Raised nipple on the lower part of the antenna adaptor
49948	YUCCA VALLEY		
M001		CTMS	Raised nipple on the lower part of the antenna adaptor
49949	CALABASAS		
M001		CBHS	Raised nipple on the lower part of the antenna adaptor
49950	LANDERS		
M001		LDES	Raised nipple on the lower part of the antenna adaptor

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49951  MOORPARK
 M001                    MPWD      Raised nipple on the lower part of the antenna
                                   adaptor

49952  APPLE VALLEY
 M001                    AVRY      Raised nipple on the lower part of the antenna
                                   adaptor

49953  WEST CAJON VALLEY
 M001                    CJMS      Raised nipple on the lower part of the antenna
                                   adaptor

49954  PERRIS
 M001                    PPBF      Raised nipple on the lower part of the antenna
                                   adaptor

49955  BEAUMONT
 M001                    BMRY      Raised nipple on the lower part of the antenna
                                   adaptor

49956  SAN PEDRO
 M001                    VTIS      Raised nipple on the lower part of the antenna
                                   adaptor

49957  GRANADA HILLS
 M001                    VNCX      Raised nipple on the lower part of the antenna
                                   adaptor

49958  VICTORVILLE
 M001                    SCIA      Raised nipple on the lower part of the antenna
                                   adaptor

49959  TWENTYNINE PALMS
 M001                    OAES      Raised nipple on the lower part of the antenna
                                   adaptor

49960  HEMET
 M001                    ESRE      Raised nipple on the lower part of the antenna
                                   adaptor
 M002                    ESRW      Raised nipple on the lower part of the antenna
                                   adaptor

49961  RANCHO CUCAMONGA
 M001                    EWPP      Raised nipple on the lower part of the antenna
                                   adaptor

49962  RANCHITA
 M001                    MVFD      Raised nipple on the lower part of the antenna
                                   adaptor

49963  TORRANCE
 M001                    ECCO      Raised nipple on the lower part of the antenna
                                   adaptor

49964  LA HABRA
 M001                    SNHS      Raised nipple on the lower part of the antenna
                                   adaptor

49965  BELL GARDENS
 M001                    BGIS      Raised nipple on the lower part of the antenna
                                   adaptor

49966  HUNTINGTON PARK
 M001                    HPHS      Raised nipple on the lower part of the antenna
                                   adaptor

49967  BEVERLY HILLS
 M001                    LFRS      Raised nipple on the lower part of the antenna
                                   adaptor
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49968  INGLEWOOD
 M001                    NOPK      Raised nipple on the lower part of the antenna
                                   adaptor

49969  ANN ARBOR
 S001                    UOFM      Novatel GPS Antenna/ARP

49970  HONOLULU
 S001                    HNLC      Ashtech Dorne-Margolin chokering antenna/ARP

49971  ANZA
 M001                    AZRY      Raised nipple on the lower part of the antenna
                                   adaptor

49972  SALTON CITY
 M001                    SLMS      Raised nipple on the lower part of the antenna
                                   adaptor

49973  WOODLAND HILLS
 M001                    LAPC      Raised nipple on the lower part of the antenna
                                   adaptor

49974  THOUSAND OAKS
 M001                    TOST      Raised nipple on the lower part of the antenna
                                   adaptor

49975  PALMDALE
 M001                    LLAS      Raised nipple on the lower part of the antenna
                                   adaptor

49976  SANTA ANA
 M001                    SACY      Raised nipple on the lower part of the antenna
                                   adaptor

49977  SANTA PAULA II
 M001                    OVLS      Raised nipple on the lower part of the antenna
                                   adaptor

49978  PALM SPRINGS AIRPORT
 M001                    PSAP      Raised nipple on the lower part of the antenna
                                   adaptor

49979  HILO AIRPORT
 S001                    HILO      Ashtech Dorne-Margolin chokering antenna S/N:
                                   11943

49980  LIHUE, KAUAI
 S001                    LHUE      Ashtech Dorne-Margolin chokering antenna S/N:
                                   CR16132

49981  HIGH VISTA
 M001                    HIVI      Raised nipple on the lower part of the antenna
                                   adaptor

49982  QUARTZ HILL
 M001                    QHTP      Raised nipple on the lower part of the antenna
                                   adaptor

49983  ROSAMOND
 M001                    RSTP      Raised nipple on the lower part of the antenna
                                   adaptor

49984  OCOTILLO WELLS
 M001                    USGC      Raised nipple on the lower part of the antenna
                                   adaptor

49985  HOLTVILLE
 M001                    IID2      Raised nipple on the lower part of the antenna
                                   adaptor
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49986  KERNVILLE
 M001                    ISLK      Raised nipple on the lower part of the antenna
                                   adaptor

49987  VINCENT
 M001                    VNPS      Raised nipple on the lower part of the antenna
                                   adaptor

49988  PALM DESERT
 M001                    COTD      Raised nipple on the lower part of the antenna
                                   adaptor

49989  LUCERNE VALLEY
 M001                    WOMT      Raised nipple on the lower part of the antenna
                                   adaptor

49990  CHIRIACO SUMMIT
 M001                    HNPS      Raised nipple on the lower part of the antenna
                                   adaptor

49991  RICE
 M001                    IMPS      Raised nipple on the lower part of the antenna
                                   adaptor

49992  LOCKWOOD
 M001                    LVMS      Raised nipple on the lower part of the antenna
                                   adaptor

49993  SAN BERNARDINO
 M001                    GHRP      Raised nipple on the lower part of the antenna
                                   adaptor

49994  CABAZON
 M001                    SGPS      Raised nipple on the lower part of the antenna
                                   adaptor
 M002                    WWMT      WhitewaterMountain / Drilled hole in top of
                                   center support bolt of SCIGN D3 antenna
                                   adapotor

49995  KENAI/ALASKA
 S001                    KEN1      GPS ARP /  ASHTECH Z-XII3 (05275), ASH700829.3
                                   (11034)
 S002                    KEN2      GPS ARP / ASHTECH Z-XII3 (04946), ASH700829.3
                                   (11264)

49996  GLENNALLEN/ALASKA
 S001                    GNAA      GPS ARP /  TRIMBLE 4000SSI (3626A16314),
                                   TRM22020.00+GP (0220049324)

49997  CENTRAL/ALASKA
 S001                    CENA      GPS ARP /  TRIMBLE 4000SSI (3638A15780),
                                   TRM22020.00+GP (0220050480)

49998  ANNETTE ISLAND/ALASKA
 S001                    AIS1      GPS ARP /  ASHTECH Z-XII3 (04952), ASH700829.3
                                   (11276)
 S002                    AIS2      GPS ARP / ASHTECH Z-XII3 (05064), ASH700829.3
                                   (11274)

49999  TALKEETNA/ALASKA
 S001                    TLKA      GPS ARP /  TRIMBLE 4000SSI (3626A16312),
                                   TRM22020.00+GP (0220054209)

50102  CARNARVON
 M001                    CARN      Standard survey mark in concrete / QUOBBA 115

50103  CANBERRA
 M106              7843            Orroral/center ground mark 7843
 M107                    ORRO      Orroral/Mark AU005/PLATE ON COLLIMATION TOWER
 M108                    TIDB      Tidbinbilla/SPC40 (AU017) (JPL 4002 - S 1992)
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 M109                                  Tidbinbilla/NM/C/194
 M110                                  Tidbinbilla/NM/C/196
 M111                                  DORIS mark
 S001             1543                 DSS43 Antenna
 S003             7943                 SAO-3 fixed laser
 S005             1542                 DSS42 Antenna
 S006             1544                 DSS44 Antenna
 S007             7843                 NLRS (coude mirror 7)
 S010             1545                 DSS45 Antenna
 S012                                  Tidbinbilla/ROGUE SNR-8/DM R/L1
                                       20-MAR-90-03-FEB-92
 S013                                  Orroral/TRIMBLE SST /L1
 S014                                  Tidbinbilla/ROGUE SNR-8/DM R/L1
                                       03-FEB-92-10-MAY-92
 S015                                  Tidbinbilla/ROGUE SNR-8/DM R/L1 11-MAY-92-
 S016                                  Orroral/ASHTECH/L1 15-MAY-92-
 S017                                  Tidbinbilla/ROGUE SNR-8/DM R/Bottom of the
                                       choke ring 11-MAY
 S018                                  Orroral/ASHTECH/Bottom antenna 15-MAY-92-
 S019                                  Tidbinbilla/ROGUE SNR-8/DM R/Top of the choke
                                       ring 20-MAR-90
 S020                  DS40            Tidbinbilla/ROGUE SNR-8/DM R/Bottom of the
                                       choke ring 20-MAR
 S021                  DS41            Tidbinbilla/ROGUE SNR-8/DM R/Bottom of the
                                       choke ring 03-FEB
 S201                       ORRA       DORIS 1 antenna ref. pt. (Alcatel type)
 S202                       ORRB       DORIS 2 antenna ref. pt.

50106  SMITHFIELD
 S005                                  GPS DMA TI4100 / L1

50107  YARRAGADEE
 M001             7090                 MOBLAS 7090 brass disk
 M004                  YAR1            Mark RM-4
 M005                                  DORIS ground mark / Centre punch mark in a
                                       brass pin set in concrete
 M006                  YARR            Plate on secondary GPS mark/centre of base of
                                       5/8" spigot of GPS antenna / AU053
 S005                                  ROGUE SNR-8/DM R/L1 15-DEC-90 -
 S006                       YARA       DORIS antenna ref. pt (Alcatel type)
 S009             7847                 PSLR
 S010                       YARB       DORIS antenna ref. pt. (Starec type)

50108  PARKES
 S001             7202                 64-m Radiotelescope Ref. point

50109  SALISBURY
 S001                  AUST            NIMA GPS antenna ASH700936B_M 1121/ ARP

50116  HOBART
 M001                  UF05            West pillar
 M002                  UF03            North pillar
 M003                  HOB1            U-Chanel plate
 M004                  HOB2            Pillar/stainless steel plate (AU16)
 M005                  HOBT            Brass plaque in concrete wharf / SPM 9927
 S002             7242                 VLBI antenna ref. pt.
 S003                                  MINIMAC 2816AT/L1 21-JAN-90 -
 S004                                  MINIMAC 2816AT/Bottom of the antenna

50119  MOUNT STROMLO
 M001                  STR0            Fundamental pillar/plate/centre of base of
                                       5/8" spigot of GPS antenna/AU045
 M002                  STR1            North pillard/plate/centre of base of 5/8"
                                       spigot of GPS antenna /AU046
 M003                                  DORIS mark: 3-metre cylindrical steel pole /
                                       top centre of a 5/8" steel bolt
 S001             7849                 Stromlo SLR / intersection of the elevation
                                       and azimuth axes of the telescope
 S002                       MSOB       DORIS antenna ref. pt. (Starec type)
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50124  SYDNEY
 M001                   LINR      LINDFIELD/National Measurement  Laboratory
                                  building/steel mounting plate (NML2)
 M002                   COVE      Brass plaque in rock / SSM 118849

50126  TOWNSVILLE
 M001                             Pillar on the office building roof
 M002                   TWVL      Steel bolt in concrete / 114711
 S002                             TRIMBLE 4000SST/L1 25-JUL-90 -
 S004                   TOWN      TRIMBLE 4000SST/Bottom of the antenna

50127  COCO ISLANDS
 M001                   COCO      MOMUMENT AU018

50133  PERTH
 M001                   PERT      GPS Mark
 M002                   PERR      Concrete block/Brass Plaque (gnan 73)

50134  DARWIN I
 M001                   DARW      GPS Mark

50135  MACQUARIE ISLAND
 M001                   MAC1      pillar/atainless steel plate

50136  JABIRU
 M001                   JAB1      ERISS/MONUMENT AU043

50137  ALICE SPRINGS/TELEGRAPH HILL
 M001                   ALIC      MONUMENT AU012

50138  CEDUNA
 M001                   CEDU      UTAS / MONUMENT AU019

50139  KARRATHA
 M001                   KARR      HARDING DAM TELSTRA TOWER/MONUMENT AU013

50140  TOWNSVILLE/CAPE FERGUSON
 M001                   TOW2      AIMS/MONUMENT AU028
 M002                   AIM4      Bolt in rock / PSM12150
 M003                   FERG      Deep-driven stainless steel rod / SSM 83469

50141  HILLARYS/PERTH
 M001                   HILS      Deep-driven stainless steel rod / Hammersly
                                  164
 S001                   HIL1      Ashtech Geodetic III (ground plane) antenna
                                  (Model 7007/ARP (Hamersly 130)

50142  BELLEVUE/PERTH
 M001                   BELR      Bellevue 157/DOLA building/Stainless steel
                                  pole surrounded by concrete

50143  BRISBANE
 M001                   SUNM      STEEL PILLAR ON ROOF OF LANDCENTRE BUILDING
                                  (SUNMAP PILLAR 703022)
 M002                   BRIS      Brass plaque in concrete / PM 53010

50144  BURNIE
 M001                   BUR1      Centre of base of 5/8" spigot on GPS antenna
                                  mounting plate/ST1139
 M002                   SPM9      Brass plaque in rock / SPM 9089

50145  PORT KEMBLA NSW
 M001                   FLAG      Brass rod in concrete / TS 7374
 M002                   PKEM      Brass Plaque inscribed "RAN HYDROGRAPHIC
                                  SERVICE H1/98" /  TS 7409
 M003                   KEMB      Metal rod in rock / PM 70948

50146  COFFS HARBOUR NSW
 M001                   COFF      Stainless Steel pin in concrete / PM 109723
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50147  BATHURST
 M001                    MYL0      Pillar Plate on Concrete pillar / TS 5517
 M002                    MYL1      Pillar Plate on Concrete pillar / 5517-1

50148  ALBANY
 M001                    ALBA      Standard survey mark in concrete / ALB 133

50149  BUNBURY
 M001                    BUNB      Brass plaque in Concrete / Bunbury North 45

50150  FREMANTLE
 M001                    FREM      Deck Spike in bitumen / NMVF6AT

50151  GERALDTON
 M001                    GERA      Brass plaque in concrete / GN284

50152  PORT HEDLAND
 M001                    PHED      Brass plaque in concrete / KH226

50153  EUCLA
 M001                    EUCL      Aluminium plaque on concrete observing pillar
                                   / 4634/1045

50154  WHYNDAM
 M001                    WYND      Brass plaque in concrete / EC71

50155  THEVENARD
 M001                    MURP      Aluminium plaque on concrete observing pillar
                                   / 5633/1680
 M002                    THVP      Concrete observing pillar / 5633/1679

50156  PORT LINCOLN
 M001                    PLIN      Deck Spike in wharf decking / 6028/3764

50157  LORN, VICTORIA
 M001                    LORN      Aluminium rivet in concrete / Lorne 69
 M002                    LAAC      Deep driven, copper-coated steel rod / PM 86
 M003                    BENW      Deep driven, copper-coated steel rod / PM 76

50158  PORTLAND, VICTORIA
 M001                    HENT      Aluminium rivet in concrete / PM 393
 M002                    PORT      Deep-driven stainless steel rod / PM80

50159  POINT LONSDALE, VICTORIA
 M001                    PLON      Deep driven, copper-coated steel rod

50160  STONY POINT,VICTORIA
 M001                    STPT      Aluminium rivet in concrete / Bittern 293

50161  PORT FAIRY, VICTORIA
 M001                    PFAI      Brass plaque in concrete / 1571-10

50162  SPRING BAY - HOBART
 M001                    SBAY      Brass disc in concrete / SPM 9404
 M002                    SBCP      Concrete observing pillar / SPM9529 RM4
 M003                    TRIP      Concrete observing pillar / SPM9261 RM4

50163  BARREN TIER
 M001                    TIER      Brass plaque in concrete / ST336 RM5

50164  PORT ARTHUR
 M001                    PTAR      Brass nut on top of galvanised pole / ST 1140

50165  KARUMBA
 M001                    KARU      Brass plaque in concrete / 10178

50166  BAMAGA
 M001                    BAMA      Deep driven galvanised iron star picket with a
                                   concrete collar  / 128716
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50167 BUNDABERG
M001 BUND Brass plaque in concrete / 3853

50168 CAIRNS
M001 CAIR Brass plaque in concrete / 128688

50169 COOKTOWN
M001 COOK Brass plaque in concrete / 92489

50170 MACKAY
M001 MACK Brass plaque in concrete / 9131

50171 WEIPA
M001 WEIP Steel Pillar / 9047

50172 ROCKHAMPTON
M001 MULA Brass plaque in concrete / 95189
M002 YEPP Deep driven stainless steel rod / 82477

50173 GROOTE EYLANDT
M001 GRTG Stainless steel mast with GPS antenna mounting plate / NTS904
M002 GROO Stainless steel bolt in rock / NTS653
M003 ALYA Deep driven steel rod in concrete / NTS652

50174 CENTER ISLAND
M001 CENI Triangle cut in rock with imscription "BM1 AHS 1966"

50175 DARWIN II
M001 PILL Concrete observing pillar / NTS302
M002 WINN Deep-driven stainless steel rod / BM4563
M003 RAAF Brass plaque in concrete / NTS664

50176 BROOME
M001 BRME Deep driven stainless steel rod / Broome 184
M002 BROO Deep driven stainless steel rod / Broome 173

50177 ESPERANCE
M001 ESPE Stainless steel pin in granite / Esperance 171

50178 PORT STANVAC
M001 RFNP Concrete observing pillar / 6527/8432
M002 STNP Concrete observing pillar / 6627/22981

50179 PORT MACDONNELL
M001 PMAC Aluminium plaque on concrete observing pillar 7021/1562

50180 VICTOR HARBOUR
M001 VICH Aluminium plaque on concrete observing pillar 6626/3810

50181 NEW NORCIA
M001 NNOR Mark at the center of a horizontal metal plate embedded on a concrete monument

50204 MOUNT JOHN
M001 MTJO Lake Tekapo / Centre of stainless plate with 5/8 inch threaded stud in top of concrete pillar; height reference is the stainless plate

50207 CHATHAM ISLAND
M001 CHAT PILLAR/15CM DIAMETER PLATE
M002 Concrete block / DORIS mark
M003 Concrete block / Stainless steel pin (mark 5503)
M004 Concrete wharf / Brass mark near the tide gauge

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 S001                        CHAB DORIS antenna ref. pt. (Starec type)

50208  WELLINGTON
 M001                              Pillar on the DOSLI building roof
 M002                    WEL2      AIRPORT/MONUMENT AUS360
 M003                    WGTN      Geodetic Ground Mark
 S001                              TRIMBLE 4000SST/L1 15-FEB-90 -
 S002                    WELL      TRIMBLE 4000SST/Bottom of the antenna
 S003                    NEWZ      NIMA GPS antenna ASH700936B_M CR16562 /ARP
 S004                    WGTT      Wellington tide gauge / Leica CRS1000 / DM /
                                   ARP

50209  AUCKLAND
 M001                    AUCK      PILLAR/15CM DIAMETER PLATE

50210  NIUE ISLAND
 S001                    NIUC      Ashtech Dorne-Margolin chokering antenna S/N:
                                   12477/ARP

50211  HOKITIKA
 M001                    HOKI      Airport/Permanent survey pillar 2m high (1421)

50212  DUNEDIN
 M001                    OUSD      Otago University Surveying Department/Pillar
 M002                    OUS2      200mm diameter steel pillar / Roof
 S001                    DUNT      Port Chalmers Tide Gauge / Leica CRS1000 /DM
                                   Antenna /ARP

50213  RAROTONGA
 M001                    RART      Arorang, Ministry of Works / Steel Rod, approx
                                   1m long
 M002                    RABM      Rarotonga International Airport / Stainless
                                   Steel Pin (BM 29)

50214  CHRISTCHURCH
 M001                    MQZG      McQueens Valley / Centre of stainless plate
                                   with 5/8 inch threaded stud in top of concrete
                                   pillar; height reference is the stainless
                                   plate
 S001                    LYTT      Lyttelton Tide Gauge / Leica CRS1000 / DM
                                   Antenna / ARP

50215  PAEKAKARIKI
 M001                    PAEK      Centre of stainless plate with 5/8 inch
                                   threaded stud in top of concrete pillar;
                                   height reference is the stainless plate

50216  Auckland tide gauge
 S001                    TAKL      Leica CRS1000 / DM / ARP

50217  Taupo Airport
 M001                    TAUP      Centre of stainless plate with 5/8 inch
                                   threaded stud in top of concrete pillar;
                                   height reference is the stainless plate

50218  WHANGAREI
 M001                    WHNG      Centre of stainless plate with 5/8 inch
                                   threaded stud in top of concrete pillar;
                                   height reference is the stainless plate

50219  TAURANGA
 M001                    TRNG      Centre of stainless plate with 5/8 inch
                                   threaded stud in top of concrete pillar;
                                   height reference is the stainless plate

50220  MASTERTON
 M001                    MAST      Centre of stainless plate with 5/8 inch
                                   threaded stud in top of concrete pillar;
                                   height reference is the stainless plate
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50221  HASTINGS
 M001                   HAST      Centre of stainless plate with 5/8 inch
                                  threaded stud in top of concrete pillar;
                                  height reference is the stainless plate

50222  HAMILTON
 M001                   HAMT      Centre of stainless plate with 5/8 inch
                                  threaded stud in top of concrete pillar;
                                  height reference is the stainless plate

50223  GISBORNE
 M001                   GISB      Centre of stainless plate with 5/8 inch
                                  threaded stud in top of concrete pillar;
                                  height reference is the stainless plate

50224  DANNEVIRKE
 M001                   DNVK      Centre of stainless plate with 5/8 inch
                                  threaded stud in top of concrete pillar;
                                  height reference is the stainless plate

50501  GUAM
 M002                   GUAM      GUAM OBS./ROOF/GUMO 1992-LAMONT-DOHERTY EARTH
                                  OBSERVATORY
 S001                        GUAB DORIS antenna ref. pt. (Starec type)

50503  AMERICAN SAMOA
 M001              7096           Mark SLR
 S006                   ASPA      TRIMBLE 4700  /  TRM33429.20+GP / ARP

50505  KWAJALEIN ATOLL I
 M001              7092           Mark SLR
 S003              4968           Tardex 26m antenna ref. pt.
 S004                             GPS OCS monitor station

50506  KWAJALEIN ATOLL II
 M001                   KWJ1      GPS MARKER/ROOF MOUNT

50512  CAPITAL HILL/SAIPAN
 S001                   CNMI      TRIMBLE 4700  /  TRM33429.20+GP / ARP

50601  FALEOLO AIRPORT/SAMOA
 S001                   FALE      Ashtech Dorne-Margolin chokering antenna S/N:
                                  12627/ARP

50602  APIA-UPOLU
 M001                   AOBS      Apia Observatory / Brass Plaque set in
                                  concrete (RASC 11236)

50801  SUVA
 M001                   FIJI      UNIVERSITY OF SOUTH PACIFIC/MONUMENT AU361
 S001                   SUVA      Ashtech Dorne-Margolin chokering antenna S/N:
                                  12478/ARP

50803  VALEBASOGA-LAMBASA
 M001                   VANU      10mm stainless steel pin in solid rock

50804  LAUTOKA
 M001                   VITI      Saweni Beach flats / 10mm stainless steel pin
                                  in solid rock

50805  ROTUMA ISLAND
 M001                   ROTU      West end of Rotuma Island / 9cm Bronze Plaque
                                  set in concrete /SOLMEA

50901  VAVA U AIRPORT
 S001                   VAVC      Ashtech Dorne-Margolin chokering antenna
                                  S/N:12468/ARP

51001  PORT MORESBY
 M002                   MORE      Permanent Survey Mark PSM15832
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 S001                        MORA DORIS antenna ref. pt (Alcatel type)

51002  LAE
 M001                  LAE1      Roof / Plate on the top of a metallic pole

51003  LORENGAU
 M001                  MAS2      Nabu Wharf / 6mm copper rod in concrete /
                                 TG-Manus

51004  BUKA AIRSTRIP
 M001                  BUKA      Brass Plaque PSM4871

51005  VANIMO TOWN
 M001                  VANI      Nail set in concrete PSM 63/1

51201  NUSA TUPE ISLAND
 S001                  NUSA      Ashtech Dorne-Margolin chokering antenna S/N:
                                 CR14322/ARP

51401  ESPIEITO SANTO
 S001                  SANC      Ashtech Dorne-Margolin chokering antenna S/N:
                                 12466/ARP

51402  PORT VILA
 S001                  VILA      Ashtech Dorne-Margolin chokering antenna/ARP

66001  MC MURDO
 M001                  MCMU      GPS mark (MCMGPS) (11-FEB-92 - 31-OCT-93)
 M003                  MCM4      GPS MARK new location
 M004                  CRAR      STEEL PLATE ON MAST/GPS+GLONASS MARKER
 S001                            ROGUE SNR-8/DM R/L1 11-FEB-92/31-OCT-93
 S006                  MCM2      ROGUE SNR-8/DM R/ARP 31-OCT-93 - ?

66004  MAWSON STATION
 M001                  MAW1      MONUMENT AUS64

66005  PALMER STATION
 M001                  PAL1      GAP GPS MARKER
 M002                  PALM      PALMER PERMANENT GPS ANTENNA

66006  SYOWA
 M001                            DORIS mark
 M002                            SCAR mark
 M003                            DORIS 2 mark in concrete pillar
 S001                       SYOB DORIS antenna ref. pt. (Starec type)
 S002                  SYOG      TurboRogue/DM T/ARP 15-MAR-1995
 S003                       SYPB DORIS 2 antenna ref. pt. (Starec type)
 S004            7342            Fully steerable 11m Cassegrain antenna with
                                 AZ/EL mount / IAR

66007  ROTHERA
 M001                  ROT1      GAP 1995 mark
 S001                       ROTA DORIS 1 antenna ref. pt. (Alcatel type)

66008  O'HIGGINS
 M001                  OHIG      METAL PLATE/PILLAR K5
 M002                            BOLT/PILLAR K5
 M003                  OHG1      GAP GPS MARKER on PILLAR K1
 M004                  OHIZ      Marker on Steel Plate
 M005                  OHI2      Marker on Pillar K 6
 S001            7245            9-m VLBI antenna

66009  SANAE
 M001                  VESL      steel pipe, drilled into the rock, 5/8" screw

66010  DAVIS
 M001                  DAV1      pillar/atainless steel plate (AUS99)

66011  CASEY
 M001                  CAS1      pillar/atainless steel plate (AUS100)
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66012  BASE FREI / GREAT WALL
 M001                   GRW1      GREAT WALL/GPS MONUMENT PILLAR
 S001                   FREI      Ashtech Dorne-Margolin chokering antenna
                                  serial # CR13219 / BPA

66013  DOME C 1
 M001                             Top of a metallic rod in the ice
 S001                        DOMB DORIS antenna ref. pt. (Starec type)
 S002                        DO2B DORIS antenna ref. pt. (Starec type)

66014  DOME C 2
 M001                             Top of a metallic rod in the ice
 S001                        DO1B DORIS antenna ref. pt. (Starec type)

66015  FERRAZ
 M001                   FERR      Steel Pillar/91900

66016  ARCTOWSKI
 M001                   ARCT      GPS MARKER, STEEL NAIL IN CONCRETE PILLAR

66017  BASE ARTIGAS
 M001                   ART1      GPS MARKER

66018  BELGRANO
 M001                   BEL1      Referenzpunkt 222/ Estacion 222
 M002                   BELG      GAP MARKER

66019  DALLMANN
 M001                   DAL1      GAP GPS MARKER
 M002                   DALL      PILLAR PERMANENT GPS ANTENNA

66021  ELEPHANT ISLAND
 M001                   ELE1      GAP MARKER

66022  ESPERANZA
 M001                   ESP1      GAP MARKER

66023  FORSTER / Schirmacher Oase
 M001                   FOR1      FOR1 GPS MARKER NEAR THE RUSSIAN BASE
                                  NOVOLASEREVSKAJA
 M002                   FOR2      FOR2 GPS MARKER

66024  FOSSIL BLUFF
 M001                   FOS1      GAP GPS MARKER

66025  HAAG NUNATAK
 M001                   HAAG      GAP GPS MARKER

66026  KLIMENT OHRIDSKI
 M001                   KOH1      GAP GPS MARKER

66027  KOTTAS BERGE
 M001                   KOTA      GAP MARKER

66028  MAITRI
 M001                   MAIT      GPS MONUMENT, PILLAR

66029  MARAMBIO
 M001                   MAR1      GAP MARKER

66030  ZHONG SHANG
 M001                   ZHON      GPS OBSERVING SITE

66031  NOTTER POINT/ ANTARCTIC PENINSULA
 M001                   NOT1      GAP GPS MARKER

66032  PETER I ISLAND
 M001                   PET1      GAP GPS MARKER
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66033  ARTURO PRAT
 M001                    PRA1      GAP GPS MARKER

66034  SAN MARTIN
 M001                    SMR1      GAP GPS MARKER

66035  PUNTA SPRING - ANTARCTIC PENINSULA
 M001                    SPR1      GAP GPS MARKER

66036  TERRA NOVA BAY
 M001                    TNB1      GPS TNB1

66037  TROLL
 M001                    TROL      NP GPS MARKER

66038  VERNADSKI
 M001                    VER1      GAP GPS MARKER

66039  WASA
 M001                    WASA      MARKER 9201

66040  Amundsen-Scott Station, South Pole
 M001                    AMUN      Stainless Steel Rod, 5/8th-inch, top and
                                   center, projecting from wood block attached to
                                   top of roof of building called the Skylab

66041  ALLAN HILLS NUNATAK
 M001                    ALN0      DIMPLE ON GEODETIC GROUND MARKER

66042  ANT HILL
 M001                    ANT0      DIMPLE ON GEODETIC GROUND MARKER

66043  BEAUFORT ISLAND
 M001                    BFT0      DIMPLE ON GEODETIC GROUND MARKER

66044  CAPE BIRD
 M001                    BIR0      DIMPLE ON GEODETIC GROUND MARKER

66045  BRATINA ISLAND
 M001                    BRA0      DIMPLE ON GEODETIC GROUND MARKER

66046  BRIMSTONE PEAK
 M001                    BRM0      DIMPLE ON GEODETIC GROUND MARKER

66047  BETTLE PEAK
 M001                    BTL0      DIMPLE ON GEODETIC GROUND MARKER

66048  MOUNT CREAN
 M001                    CRN0      DIMPLE ON GEODETIC GROUND MARKER

66049  CAPE CROZIER
 M001                    CRZ0      DIMPLE ON GEODETIC GROUND MARKER

66050  MOUNT DEWITT
 M001                    DWT0      DIMPLE ON GEODETIC GROUND MARKER

66051  ESSER HILLS
 M001                    ESH0      DIMPLE ON GEODETIC GROUND MARKER

66052  FRANKLIN ISLAND
 M001                    FRK0      DIMPLE ON GEODETIC GROUND MARKER

66053  MASON SPUR
 M001                    MAS0      DIMPLE ON GEODETIC GROUND MARKER

66054  MINNA BLUFF
 M001                    MBF0      DIMPLE ON GEODETIC GROUND MARKER

66055  CAPE ROSS
 M001                    ROS0      DIMPLE ON GEODETIC GROUND MARKER
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66056  CAPE ROYDS
 M001                   ROY0      DIMPLE ON GEODETIC GROUND MARKER

66057  CAPE REYNOLDS
 M001                   RYN0      DIMPLE ON GEODETIC GROUND MARKER

66058  MARBLE POINT
 M001                   WAL0      DIMPLE ON GEODETIC GROUND MARKER

66059  WARREN RANGE
 M001                   WRN0      DIMPLE ON GEODETIC GROUND MARKER

66060  WHITE ISLAND
 M001                   WTE0      DIMPLE ON GEODETIC GROUND MARKER

66061  MOUNT FLEMING
 M001                   FLM2      DIMPLE ON GEODETIC GROUND MARKER

66062  FISHTAIL POINT
 M001                   FTP1      DIMPLE ON GEODETIC GROUND MARKER

66063  CAPE ROBERTS
 M001                   ROB1      DIMPLE ON GEODETIC GROUND MARKER

80601  PORT STANLEY/LOOKOUT HILL
 S001                   LKTH      Ashtech Dorne-Margolin chokering antenna
                                  serial # CR16377 / BPA

81701  LA PALMA
 M001                   LPAL      Reinforced concrete pillar on roof of the
                                  Roque de los Muchachos Observatory (108330)

82001  ISABELLA
 S003                   PUR3      GPS ARP / ASHTECH Z-XII3, ASH700829.3 SNOW

91201  KERGUELEN
 M002                   KERG      IGNF BRASS MARK RBGM
 M003                             EX-PRARE PILLAR / TOP OF STAINLESS STEEL PLATE
 M005                             Upper face of the base plate of the DORIS
                                  tower / axis of the tube
 M006                             Ex-PRARE pillar / top of the threaded bolt
                                  (DORIS 2 mark)
 S002                        KERA DORIS antenna ref. pt (Alcatel type)
 S003                        KERB DORIS antenna ref. pt. (Starec type)
 S004                        KESB DORIS antenna ref. pt. (Starec type)

91401  AMSTERDAM
 M001                             DORIS 1 mark
 M002                             DORIS concrete pillar / lower triangular plate
                                  / stainless steel mark
 M003                             NIVMER pillar
 S001                        AMSA DORIS 1 antenna ref. pt. (Alcatel type)
 S002                        AMSB DORIS 2 antenna ref. pt. (Starec type)
 S003                        AMTB DORIS antenna ref. pt. (Starec type)

91501  ILE DES PETRELS
 M001                   DUM1      Plate/GPS pillar (SCAR 95)
 S001                        ADEA DORIS antenna ref. pt (Alcatel type)

92201  PAPEETE (TAHITI)
 M003                   PAMA      IGN brass mark
 M006                   TAHI      12 MM DOMED MARK UGP1
 M007             7124            MOBLAS-8 7124-1997 Standard NASA disk
 M008                             DORIS 2 mark
 M009                   THTI      IGS mark THTI on a terrace roof
 M010                             Brass disks cemented in concrete/GPS Station
                                  85414
 S003                             ASHTECH/L1 22-JAN-91 - 13-FEB-91-
 S004                             ROGUE SNR-8/DM R/L1 01-JAN-92
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 S007                       PAPB DORIS antenna ref. pt. (Starec type)
 S008                       PAQB DORIS 2 antenna ref. pt. (Starec type)
 S009                       PAMB DORIS antenna ref. pt (Starec type) 19-08-1993
                                 - 28-09-1993

92202  HUAHINE ( MOTU HIUMOO )
 M001                            Tube Huahine no. 5
 M002             7121           MOBLAS-1 7121-1982 standard NASA disk
 M003             7123           TLRS-2 7123 CSR reference
 M004             7123           TLRS-2 7123 standard NASA disk
 M005                            Mark RM-1
 S008                            ASHTECH/L1 22-JAN-91 - 13-FEB-91
 S009                       HUAA DORIS antenna ref. pt (Alcatel type)

92301  RIKITEA (ILE MANGAREVA)
 S001                       MGRB DORIS antenna ref. pt (Starec type) 16-06-1995
                                 - 27-06-1995

92401  TUBUAI
 S001                       TUBB DORIS antenna ref. pt (Starec type) 07-10-1993
                                 - 27-10-1993

92402  RURUTU
 S001                       RURB DORIS antenna ref. pt (Starec type) 08-05-1995
                                 - 29-05-1995

92403  RAPA
 M001                            DORIS mark
 S001                       RAQB DORIS 2 antenna ref. pt. (Starec type)
 S002                       RAPB DORIS 1 antenna ref. pt. (Starec type)
                                 11-03-1995 - 30-03-1995

92502  HAO
 S001                       HAOB DORIS antenna ref. pt (Starec type) 15-02-1994
                                 - 09-03-1994

92504  ANAA
 S001                       ANAB DORIS antenna ref. pt (Starec type) 09-11-1993
                                 - 26-11-1993

92505  NAPUKA
 S001                       NAPB DORIS antenna ref. pt (Starec type) 26-01-1995
                                 - 06-02-1995

92506  NUKUTAVAKE
 S001                       NKTB DORIS antenna ref. pt (Starec type) 15-02-1995
                                 - 28-02-1995

92507  MORUROA
 S001                       MURB DORIS antenna ref. pt (Starec type) 19-01-1994
                                 - 14-02-1994

92508  APATAKI
 S001                       APAB DORIS antenna ref. pt (Starec type) 17-12-1993
                                 - 28-12-1993

92601  NUKU HIVA
 S001                       NUKB DORIS antenna ref. pt (Starec type) 04-12-1993
                                 - 04-12-1993

92701  NOUMEA
 M002                            DORIS mark
 M003                  NOUM      Center of stainless steel plate fixed to the
                                 top of 4" steel pillar
 M004                            Tide gauge auxiliary benchmark L-1
 S001                       NOUA DORIS antenna ref. pt (Alcatel type)

92722  WANAHAM/ILE LIFOU
 S001                       LIFB DORIS Ant. Ref. Pt.
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92727  KOUMAC
 S001                    KOUC      Ashtech Dorne-Margolin chokering antenna S/N:
                                   12463/ARP

92732  WE-LIFOU
 S001                    LPIL      Ashtech Dorne-Margolin chokering antenna/ARP

92802  TANNA
 S001                         TANB DORIS Ant. Ref. Pt.

92901  WALLIS
 M001                              DORIS mark
 S001                         WALA DORIS antenna ref. pt (Alcatel type)

92902  FUTUNA
 M001                              Metal pipe / DORIS supporting plate / mark
 S001                         FUTB DORIS antenna ref. pt. (Starec type)
 S002                    FTNA      Ashtech Dorne-Margolin chokering antenna/ARP

97101  LE MOULE
 M001                              RBGM / Borne
 S001                              ASHTECH/L1 22-JAN-91 - 13-FEB-91

97301  KOUROU
 M201                              Pillar Diane I (84)
 M210                    KOUR      Mark at the center of a horizontal metal plate
                                   embedded on a concrete monument
 M211                    KOU1      Mark at the center of a horizontal metal plate
                                   embedded on a concrete monument
 M401                              DORIS 2 mark
 S001                              ASHTECH/L1 22-JAN-91 - 13-FEB-91
 S004                         KRUB DORIS antenna ref. pt. (Starec type)
 S005                         KRUA DORIS 1 antenna ref. pt (Alcatel type)

97401  LA REUNION
 M002                              DORIS mark
 M003                    REUN      Pillar/Brass mark 12mm diameter
 M004                              DORIS mark set in the central tube of the
                                   metal base
 S001                         REUA DORIS antenna ref. pt (Alcatel type)
 S002                         REUB DORIS 2 antenna ref. pt. (Starec type)
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