SIRGAS regional stations available for the second reprocessing of the SIRGAS reference frame

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An immediate activity within SIRGAS is the reprocessing of the SIRGAS reference frame applying the standards outlined in the Conventions 2010 (Petit and Luzum 2010) of the International Earth Rotation and Reference Systems' Service (IERS) as well as the characteristics specified by the International GNSS Service (IGS) for the second reprocessing of the IGS global network (http://acc.igs.org/reprocess2.html). As this reprocessing implies the computation of daily and weekly normal equations backwards until January 1997, it was agreed to make an inventory of the available measurements and to review the station log files to ensure their correctness and completeness. This contribution summarizes the existing observation files for each station every year since their installation. Input for this inventory is the installation dates registered in the log files as well as the information provided by the SIRGAS National Data Centres:

- Argentina: Instituto Geográfico Nacional (IGN-Ar)
- Bolivia: Instituto Geográfico Militar (IGM-Bo)
- Brazil: Instituto Brasileiro de Geografia e Estatística (IBGE)
- Chile: Instituto Geográfico Militar (IGM-Cl)
- Colombia: Instituto Geográfico Agustín Codazzi (IGAC)
- Costa Rica: Instituto Geográfico Nacional (IGN), Escuela de Topografía, Catastro y Geodesia de la Universidad Nacional (ETCG-UNA), Instituto Costarricense de Acueductos y Alcantarillados (AyA), Centro Nacional de Alta Tecnología (CENAT), Universidad de Costa Rica (UCR)
- Ecuador: Instituto Geográfico Militar (IGM-Ec)
- Guatemala: Instituto Geográfico Nacional Ing. Alfredo Obiols Gomez (IGN)
- Honduras: Instituto de la Propiedad (IP-HN)
- Mexico: Instituto Nacional de Estadística y Geografía (INEGI)
- Panama: Instituto Geográfico Nacional Tommy Guardia (IGNTG)
- Uruguay: Servicio Geográfico Militar (SGM-Uy)
- Venezuela: La Universidad del Zulia (LUZ), Instituto Geográfico de Venezuela Simón Bolívar (IGVSB)

Station	Location	Installed	Removed	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
ARGENTINA																					
ABRA	Abra Pampa, Argentina	2013-11-22		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	93	96	
ALUM	Alumbrera, Argentina	2008-10-16		-	-	-	-	-	-	-	-	-	-	-	95	99	99	100	95	99	81
AUTF	Ushuaia, Argentina	1999-01-01		-	-	86	68	72	38	63	62	0	75	99	99	98	93	100	100	100	100
AZUL	Azul, Argentina	2007-08-29		-	-	-	-	-	-	-	-	-	-	94	100	99	100	99	98	88	94
BCAR	Balcarce, Argentina	2009-07-14		-	-	-	-	-	-	-	-	-	-	-	92	100	97	100	91	100	100
BCHE	Bariloche, Argentina	2011-09-04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	99	98	100
CATA	Catamarca, Argentina	2008-09-22		-	-	-	-	-	-	-	-	-	-	-	88	97	99	100	99	98	92
CHAC	Resistencia, Argentina	2010-12-18		-	-	-	-	-	-	-	-	-	-	-	-	0	90	55	99	94	90
CSLO	Complejo Astronomico El Leoncito, Argentina	2005-10-15		-	-	-	-	-	-	-	-	97	100	65	0	55	100	100	100	98	100
EBYP	Posadas, Argentina	2008-12-31		-	-	-	-	-	-	-	-	-	-	-	100	99	98	85	51	100	100
FSOJ	Tiquel, Argentina	2008-09-04		-	-	-	-	-	-	-	-	-	-	-	80	95	97	73	98	98	98
GUAY	Villaguay, Argentina	2010-09-18		-	-	-	-	-	-	-	-	-	-	-	-	-	69	94	99	99	34
IGMS	Buenos Aires, Argentina	1998-08-01	2004-01-01	-	16	100	98	98	98	95	99	-	-	-	-	-	-	-	-	-	-
IGM1	Buenos Aires, Argentina	2003-07-19		-	-	-	-	-	-	98	100	89	99	98	99	100	100	100	100	100	99
IBAL	Juan Bautista Alberdi, Argentina	2009-06-10		-	-	-	-	-	-	-	-	-	-	-	-	100	90	100	97	97	98
LHCL	Lihuel Calel, Argentina	1997-01-01		64	58	0	79	38	46	17	41	7	78	86	95	100	100	100	73	100	100
MAO1	Neuquen, Argentina	2008-12-11		-	-	-	-	-	-	-	-	-	-	-	0	19	41	72	74	16	85
MECO	Mercedes, Argentina	2006-06-15		-	-	-	-	-	-	-	-	-	36	92	82	0	0	90	50	0	0
MPL2	Mar del Plata, Argentina	2009-09-29		-	-	-	-	-	-	-	-	-	-	-	-	37	77	87	95	94	28
MPLA	Mar del Plata, Argentina	2002-06-12	2008-02-04	-	-	-	-	-	-	53	70	78	48	84	48	44	-	-	-	-	-
MZAC	Mendoza, Argentina	2004-06-10		-	-	-	-	-	-	-	-	90	91	99	95	96	100	98	99	98	99
MZAE	Santa Rosa, Argentina	2007-05-18		-	-	-	-	-	-	-	-	-	-	-	99	100	100	100	96	95	96
MZAL	Lavalle, Argentina	2013-04-30		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	89	70
MZAS	San Rafael, Argentina	2006-11-15	2010-10-27	-	-	-	-	-	-	-	-	-	0	93	100	100	99	-	-	-	-
MZAU	La Consulta, Argentina	2011-09-09		-	-	-	-	-	-	-	-	-	-	-	-	-	-	93	100	99	87
MZDA	General Alvear, Argentina	2014-04-15		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	99
MZSR	San Rafael, Argentina	2010-12-02		-	-	-	-	-	-	-	-	-	-	-	-	100	99	85	0	35	
NESA	General Conesa, Argentina	2009-12-19		-	-	-	-	-	-	-	-	-	-	-	54	100	98	76	81	100	
PDE2	Puerto Deseado, Argentina	2008-11-20	2009-09-30	-	-	-	-	-	-	-	-	-	-	41	51	-	-	-	-	-	-
PDES	Puerto Deseado, Argentina	2005-05-04	2007-07-25	-	-	-	-	-	-	-	-	98	75	49	-	-	-	-	-	-	-
PEJD	Pehuajo, Argentina	2010-09-25		-	-	-	-	-	-	-	-	-	-	-	-	98	99	98	91	84	
PRNA	Parana, Argentina	2011-07-01		-	-	-	-	-	-	-	-	-	-	-	-	-	91	93	82	85	
RECO	Reconquista, Argentina	2014-03-26		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	95	
RWSN	Rawson, Argentina	1999-11-10		-	-	64	76	94	82	93	92	81	93	85	98	86	19	63	76	0	42
SUD1	La Punta - San Luis, Argentina	2009-09-24		-	-	-	-	-	-	-	-	-	-	-	74	99	100	94	88	94	
SRLP	Santa Rosa, Argentina	2008-06-22		-	-	-	-	-	-	-	-	-	-	70	98	100	100	100	98	99	
SVIC	San Vicente, Argentina	2008-12-01		-	-	-	-	-	-	-	-	-	-	-	100	93	90	97	91	89	90
TERO	Santiago del Estero, Argentina	2008-05-22		-	-	-	-	-	-	-	-	-	-	-	99	99	100	98	97	99	99
TUCU	Tucuman, Argentina	1999-01-01		-	-	82	99	67	44	97	84	97	40	100	100	98	99	99	99	88	62
UCOR	Cordoba, Argentina	1998-06-20		-	-	0	0	0	0	0	0	53	86	96	94	93	91	82	88	98	94
UNPA	Rio Gallegos, Argentina	2010-08-05		-	-	-	-	-	-	-	-	-	-	-	-	50	79	100	97	97	93
UNRO	Rosario, Argentina	2002-03-19		-	-	-	-	-	-	0	36	99	98	95	99	99	96	99	100	99	97
UNSJ	San Juan, Argentina	2007-03-08		-	-	-	-	-	-	-	-	-	-	-	100	98	100	100	100	99	100
VBCA	Bahia Blanca, Argentina	1998-12-06		-	69	92	92	76	92	86	98	86	86	75	97	93	95	93	97	93	81
YEMA	Laguna Yema, Argentina	2012-12-03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	15	57	
BOLIVIA																					
BLPZ	El Alto, Bolivia	2005-05-12		-	-	-	-	-	-	-	-	0	0	0	0	0	0	83	96	96	98
LMIB	La Paz, Bolivia	2012-05-14		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	78	95	96
URUS	Oruro, Bolivia	2009-09-02		-	-	-	-	-	-	-	-	-	-	-	-	0	78	97	97	99	96
UYNI	Uyuni, Bolivia	2005-05-26		-	-	-	-	-	-	-	-	0	0	0	0	0	0	96	68	67	52
YCBA	Yacuiba, Bolivia	2011-05-25		-	-	-	-	-	-	-	-	-	-	-	-	100	99	100	97		
BRAZIL																					
ALAR	Araripinca, Brazil	2007-08-16		-	-	-	-	-	-	-	-	-	-	0	59	71	72	94	100	100	100
AMCO	Porto Urucu, Brazil	2012-09-12		-	-	-	-	-	-	-	-	-	-	-	-	-	-	96	98	98	
AMHU	Humaita, Brazil	2007-10-15	2014-10-27	-	-	-	-	-	-	-	-	-	-	0	58	0	0	0	27	0	18
AMPR	Parintins, Brazil	2014-11-28		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	
AMTE	Tefe, Brazil	2013-10-21		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	99	96
APLJ	Laranjal do Jari, Brazil	2014-10-31		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	75	
APSA	Santana, Brazil	2008-07-30		-	-	-	-	-	-	-	-	-	-	-	0	8	8	73	69	100	99
BABR	Barreiras, Brazil	2008-08-02		-	-	-	-	-	-	-	-	-	-	-	0	0	85	45	95	98	99
BAIL	Ilheus, Brazil	2013-06-28		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	99	86	
BAIR	Ireco, Brazil	2008-07-28		-	-	-	-	-	-	-	-	-	-	-	0	93	84	96	100	99	93
BATF	Teixeira de Freitas, Brazil	2008-05-28		-	-	-	-	-	-	-	-	-	-	-	0	84	97	97	98	99	100
BAVC	Vitória da Conquista, Brazil	2008-05-29		-	-	-	-	-	-	-	-	-	-	-	0	64	99	93	100	100	86
BELE	Belem, Brazil	2003-11-19		-	-	-	-	-	-	0	94	54	58	80	96	96	97	98	98	98	100
BEPA	Belem, Brazil	2014-07-18		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	99
BGRV	Boa Vista, Brazil	2007-05-11		-	-	-	-	-	-	-	-	-	-	34	91	91	92	92	95	97	98
BOMJ	Bom Jesus da Lapa, Brazil	1997-02-18		87	54	89	63	17	19	98	100	82	85	71	99	99	99	100	100	100	100
CEEU	Eusebio, Brazil	2008-03-03		-	-	-	-	-	-	-	-	-	-	-	30	99	98	64	99	100	100
CETE	Vitoria, Brazil	2007-07-14		-	-	-	-	-	-	-	-	-	-	93	96	97	99	99	100	100	100
CETT	Tortaleza - Porto, Brazil	2008-08-13		-	-	-	-	-	-	-	-	-	-	-	0	20	87	87	81	100	98
CESB	Sobral, Brazil	2013-10-25		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	96	100
CGAM	Coari, Brazil	2014-10-15		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	94
CRAT	Crato, Brazil	2000-05-09		-	-	-	0	56	29	99	88	75	71	73	87	99	83	7	99	100	99
CRUZ	Cruzeiro do Sul, Brazil	2007-03-22		-	-	-	-	-	-	-	-	-	-	40	74	4	0	0	50	99	99
CUIB	Cuiaba, Brazil	1997-06-18		97	98	97	85	92	85	90	96	94	100	98	100	100	100	100	99	100	100
EESC	Sao Carlos, Brazil	2012-02-18		-	-	-	-	-	-	-	-	-	-	-	-	-	-	98	99	95	
GOGY	Goiania, Brazil	2013-06-09		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	99	
GOJA	Jataí, Brazil	2007-11-07		-	-	-	-	-	-	-	-	-	-	0	42	80	96	96	98	99	100
GVAL	Governador Valadares, Brazil	2014-06-10		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	98
GVAL	Gov. Valadares, Brazil	2001-04-08	2014-04-10	-	-	-	-	0	0	0	47	58	90	97	98	99	96	98	98	99	98
IUHA	Iha Solteira, Brazil	2006-06-30		-	-	-	-	-	-	-	-	-	0	0	0	0	53	84	88	99	98
IMBT	Imbituba, Brazil	2007-05-10		-	-	-	-	-	-	-	-	-	-	50	86	72	76	76	98	98	99
IMTZ	Imperatriz, Brazil	1997-07-18		0	81	66	38	77	83	76	81	58	74	86	99	97	100	100	100	96	88
JAMG	Jaiba, Brazil	2014-11-22		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100
MABA	Maraba, Brazil	2007-04-19		-	-	-	-	-	-	-	-	-	-	46	95	87	98	65	25	97	99
MARB	Marabal, Brazil	2013-11-05		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	91	99	
MABS	Balsas, Brazil	2009-11-25		-	-	-	-	-	-	-	-	-	-	-	-	-	0	76	18	28	86
MANU	Manaus, Brazil	1997-04-29	2003-10-04	76	94	39	36	35	13	65	-	-	-	-	-	-	-	-	-	-	-
MAPA	Macapa, Brazil	2003-11-22		-	-	-	-	-	-	0	0	0	74	86	98	94	95	98	99	83	99
MCL1	Montes Claros, Brazil	2014-04-08		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	98
MCLA	Montes Claros, Brazil	2001-04-18	2014-04-08	-	-	-	-	0	0	0	38	44	97	98	98	97	97	99	98	98	96
MGBH	Belo Horizonte, Brazil	2008-09-17		-	-	-	-	-	-	-	-	-	-	-	0	96	99	100	100	100	96
MGIN	Inconfidentes, Brazil	2007-10-10		-	-	-	-	-	-	-	-	-	-	0	99	90	98	100	98	100	100
MGMC	Montes Claros, Brazil	2007-10-03		-	-	-	-	-	-	-	-	-	-	0	54	75	90	96	99	100	100
MGRP	Rio Paranaiba, Brazil	2009-12-14		-	-	-	-	-	-	-	-	-	-	-	0	83	100	95	100	95	95
MGUB	Uberlandia, Brazil	2007-05-21		-	-	-	-	-	-	-	-	-	-	0	97	94	95	95	99	99	99
MGV1	Varginha, Brazil	2014-03-25		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	98
MGVA	Varginha, Brazil	2010-03-09	2013-10-24	-	-	-	-	-	-	-	-	-	-	-	-	91	97	98	96		
MSCG	Campo Grande, Brazil	2007-10-29		-	-	-	-	-	-	-	-	-	-	0	98	26	31	86	95	84	92
MSCO	Corumba, Brazil	2013-11-26		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	98
MSDO	Dourados, Brazil	2007-10-29	2012-11-08	-	-	-	-	-	-	-	-	-	-	0	0	48	54	44	0	-	-
MSDR	Dourados, Brazil	2013-07-10		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	100
MTBA	Barra do Garcas, Brazil	2007-12-05		-	-	-	-	-	-	-	-	-	-	0	34	0	90	95	95	100	91
MTCN	Canarana, Brazil	2010-11-25		-	-	-	-	-	-	-	-	-	-	-	-	0	14	96	95	98	
MTCO	Colider, Brazil	2007-11-29		-	-	-	-	-	-	-	-	-	-	0	0	18	84	88	95	99	99
MTI1	Jaina, Brazil	2014-09-25		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	98
MTSF	São Felix do Araguaia, Brazil	2007-12-04		-	-	-	-	-	-	-	-	-	-	0	69	73	83	83	83	87	90
MTSR	Sorriso, Brazil	2010-12-22		-	-	-	-	-	-	-	-	-	-	-	-	0	76	100	84	100	100
MTVB	Vila Bela da Santissima Trindade, Brazil	2011-04-05		-	-	-	-	-	-	-	-	-	-	-	-	-	24	56	100	97	
NAUS	Manaus, Brazil	2005-10-25		-	-	-	-	-	-	-	-	-	0	95	94	100	98	100	86	93	99
NEIA	Caravela, Brazil	2002-01-11		-	-	-	-	9	0	0	0	0	85	86	93	99	95	95	100	91	100
ONRJ	Rio de Janeiro, Brazil	2007-03-30		-	-	-	-	-	-	-	-	-	-	-	100	100	93	98	98	100	98
OURI	Ouritiba, Brazil	2006-12-20		-	-	-	-	-	-	-	-	-	-	0	0	0	52	90	81	100	98
PAAT	Altamira, Brazil	2009-11-24		-	-	-	-	-	-	-	-	-	-	-	-	0	76	95	95	96	97
PAIT	Itaituba, Brazil	2009-11-19		-	-	-	-	-	-	-	-	-	-	-	-	0	65	98	75	98	72
PARA	Curitiba, Brazil	1996-12-13	2007-09-27	85	95	86	92	93	83	96	97	99	97	62	-	-	-	-	-	-	-
PAST	Santarem, Brazil	2008-04-04	2015-05-28	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	74	85	88
PSCG	Campina Grande, Brazil	2007-12-08		-	-	-	-	-	-	-	-	-	-	0	73	88	95	97	97	96	99
PBJP	Joao Pessoa, Brazil	2013-04-21		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	87	
PEAF	Afogados da Ingazeira, Brazil	2013-09-03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	58
PEPE	Petrolina, Brazil	2007-10-05		-	-	-	-	-	-	-	-	-	-	-	0	99	91	96	98	100	92
PICR	Corrente, Brazil	2014-06-06		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	66
PIFL	Floriano, Brazil	2013-11-07		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	40
PSR	São Raimundo Nonato, Brazil	2008-11-20		-	-	-	-	-	-	-	-	-	-	-	0	58	100	100	99	85	
PITN	Teresina, Brazil	2010-07-06		-	-	-	-	-	-	-	-	-	-	-	-	0	99	99	100	99	
POAL	Porto Alegre, Brazil	1998-10-28		-	0	79	98	92	95	98	96	90	94	72	68	99	98	98	100	100	97
POLI	Sao Paulo, Brazil	2006-12-12		-	-	-	-	-	-	-	-	-	-	0	93	97	99	98	97	96	93
POVE	Porto Velho, Brazil	2005-10-14		-	-	-	-	-	-	-	-	0	91	77	95	98	100	99	99	100	99
PPTE	Presidente Prudente, Brazil	2005-12-11		-	-	-	-	-	-	-	-	0	98	100	99	99	99	98	99	100	100
PREV	Cascavel, Brazil	2013-05-13		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	57	95
PRGU	Guarapuava, Brazil	2008-12-10		-	-	-	-	-	-	-	-	-	-	-	0	59	98	100	99	98	99
PRMA	Maringá, Brazil	2008-12-08		-	-	-	-	-	-	-	-	-	-	-	0	65	100	99	100	100	94
RECF	Recife, Brazil	1999-07-06		-	-	95	95	56	62	69	93	60	77	84	96	21	21	22	14	100	100
RIOB	Rio Branco, Brazil	2007-05-21		-	-	-	-	-	-	-	-	-	-	46	97	76	83	84	95	85	96
RIOD	Rio de Janeiro, Brazil	2001-07-21		-	-	-	-	-	77	95	96	97	93	95	98	100	99	100	100	99	100
RICG	Campos dos Goytacazes, Brazil	2007-12-11		-	-	-	-	-	-	-	-	-	-	0	71	89	99	99	100	100	100
RNMO	Mossoro, Brazil	2008-08-01		-	-	-	-	-	-	-	-	-	-	-	0	99	100	100	99	95	96
RNNA	Natal, Brazil	2008-07-28		-	-	-	-	-	-	-	-	-	-	-	0	0	100	98	99	99	99
RNPF	Pau dos Ferros, Brazil	2014-05-15		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	94	
ROCD	Colorado D'Oeste, Brazil	2008-11-25		-	-	-	-	-	-	-	-	-	-	-	0	0	73	100	100	100	100
RODM	Guajara-Mirim, Brazil	2007-10-19		-	-	-	-	-	-	-	-	-	-	0	54	41	100	100	97	99	
RCII	Ji-Parana, Brazil	2007-11-30		-	-	-	-	-	-	-	-	-	-	-	0	73	99	99	99	100	95
RDSA	Rosana, Brazil	2006-12-10		-	-	-	-	-	-	-	-	-	0	0	0	46	97	93	99	100	100
RSAL	Alegrete, Brazil	2013-07-04		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	83	98	
RSCL	Cerro Largo, Brazil	2014-06-02		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	87
RSPE	Pelotas, Brazil	2014-07-03		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	99
SAGA	São Gabriel da Cachoeira, Brazil	2007-05-03		-	-	-	-	-	-	-	-	-	-	44	99	98	99	99	100	94	99
SALU	Sao Luis, Brazil	2007-05-23		-	-	-	-	-	-	-	-	-	-	53	97	87	91	99	100	99	100
SALV	Salvador, Brazil	1999-05-20	2008-08-10	-	-	63	96	69	84	90	96	12	50	54	78	-	-	-	-	-	-
SAVO	Salvador, Brazil	2007-04-24		-	-	-	-	-	-	-	-	-	-	40	98	88	93	96	100	100	100
SCAO	Araguari, Brazil	2013-05-22		-	-	-	-	-	-	-	-	-	-	-	-	-	-	38	88		
SCCH	Chapeco, Brazil	2007-08-14		-	-	-	-	-	-	-	-	-	-	0	53	93	93	93	97	100	100
SCFL	Florianopolis, Brazil	2013-07-09		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	96	100	100
SCLA	Lages, Brazil	2007-08-17		-	-	-	-	-	-	-	-	-	-	0	74	92	92	92	95	100	100
SEAJ	Sao Cristovao, Brazil	2013-04-16		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	93
SJRP	Sao Jose do Rio Preto, Brazil	2006-08-15		-	-	-	-	-	-	-	-	-	-	0	0	0	53	99	96	95	100
SJSP	Sao Jose dos Campos, Brazil	2002-09-15		-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	60
SMAR	Santa Maria, Brazil	1999-10-14		-	-	0	0	0	28	85	95	91	96	97	100	99	99	99	100	99	99
SPAR	Araruama, Brazil	2008-10-15		-	-	-	-	-	-	-	-	-	-	0	0	0	99	94	84	97	97
SPBO	Botucatu, Brazil	2011-05-19		-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	88	99	98
SPCA	Cananeia, Brazil	2009-05-09	2015-01-24	-	-	-	-	-	-	-	-	-	-	-	-	0	72	-	84	99	95
SPDR	Dracena, Brazil	2014-07-25		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100
SPFE	Fernandopolis, Brazil	2015-02-23		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SPFR	Franca, Brazil	2014-07-18		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100
SPJA	Jaboticabal, Brazil	2010-10-02		-	-	-	-	-	-	-	-	-	-	-	-	0	0	72	98	80	
SPLI	Lins-Uniêns, Brazil	2014-07-25		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	
SPPI	Piracicaba, Brazil	2014-07-25		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	89
SPSO	Sorocaba, Brazil	2014-07-25		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	96
SPTU	Tupã, Brazil	2014-07-25		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	
SSA1	Salvador Capitania, Brazil	2007-05-04		-	-	-	-	-	-	-	-	-	-	46	98	84	91	93	94	99	99
TOGU	Gurupi, Brazil	2007-11-09		-	-	-	-	-	-	-	-	-	-	0	70	53	84	96	96	99	99
TOPL	Palmas, Brazil	2007-10-15		-	-	-	-	-	-	-	-	-	-	0	96	95	98	99	99	84	85
UBA1	Ubatuba, Brazil	2009-09-10		-	-	-	-	-	-	-	-	-	-	-	-	0	73	32	53	99	100
UBAT	Ubatuba, Brazil	2000-08-17	2009-09-09	-	-	-	45	0	0	0	0	0	78	88	90	89	-	-	-	-	-
UBE1	Uberlandia, Brazil	2014-03-25		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	99
UBER	Uberlandia, Brazil	2001-04-18	2013-10-22	-	-	-	-	0	0	0	42	87	99	95	94	99	97	95	99	93	
UFPP	Presidente Prudente, Brazil	1996-12-18	2005-12-10	87	99	98	100	98	96	99	93	93	-	-	-	-	-	-	-	-	-
UFPR	Curitiba, Brazil	2007-05-08		-	-	-	-	-	-	-	-	-	-	-	49	99	99	100	100	100	100
VARG	Varginha, Brazil	2001-04-18	2010-03-08	-	-	-	-	0	0	0	5	75	100	97	95	96	0	-	-	-	-
VICO	Viscosa, Brazil	1997-05-22		97	95	94	89	95	99	99	97	100	94	79	99	95	99	93	90	99	100

Station	Location	Installed	Removed	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
CHILE																					
ANGO	Angol, Chile	2010-04-30		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	46	75
ANTC	Los Angeles, Chile	1996-07-29		99	94	98	99	97	100	98	73	93	98	99	100	100	99	98	100	100	99
COPO	Copiapo, Chile	1996-06-24	2015-08-05	98	99	78	86	91	93	97	94	90	86	72	50	100	99	96	99	98	100
COYQ	Coyhaique, Chile	1997-12-02		100	86	70	86	45	10	63	46	27	42	57	100	100	56	51	25	0	65
IACR	Arica, Chile	2012-03-01		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-