

## TE SubCom's Undersea Fiber Optic Cable System Project Experience

*Fiber Optic Undersea Cable Systems supplied by TE SubCom, in whole or in part, since 1986.*

RFS	System	Terminal Station Locations	Owners	Length (KM)	Total/ Partial
2020	Djibouti Africa Regional Express (DARE1)	Djibouti (Djibouti), Mombasa (Kenya), Mogadishu, Berbera, and Bosaso (Somalia)	Djibouti Telecom SA	4,763	T
2020	Jupiter	Maruyama, Japan; Shima, Japan; Los Angeles, California, USA; and Daet, Camarines Norte, Philippines	PLDT, NTT Communications, PCCW Global, SoftBank, Facebook and Amazon	14,000	T
2019	ICN2	Port Vila, Vanuatu, Luganville, Vanuatu, Honiara, Solomon Islands	Interchange Limited	1,623	T
2019	Deep Blue Cable	Cayman Islands, Curaçao, the Dominican Republic, Haiti, Jamaica, Puerto Rico, Trinidad & Tobago, and Turks & Caicos Islands, with dual diverse landings in the U.S.	Deep Blue Cable	12,000	T
2019	Havfrue	New Jersey (USA), Jutland Peninsula (Denmark) and County Mayo (Ireland) Optional branch extensions to Northern and Southern Norway are also included.	Aqua Comms, Bulk Infrastructure, Facebook, and Google	7,750	T
2019	Curie	Los Angeles (USA) and Valparaiso (Chile), with a stubbed branch to Balboa (Panama).	Google	10,000	T
2018	Cable Submarino República Dominicana	Punta Cana, Dominican Republic (with connectivity to San Juan, Puerto Rico via existing SAm-1 branching unit BU5)	Telefonica International Wholesale Services America S.A., TELXIUS Cable Puerto Rico, Inc., TELXIUS Cable Peru S.A.C.	75	T
2018	Pacific Light Cable Network	Los Angeles, California (U.S.A.), Deep Water Bay (Hong Kong)	Pacific Light Data Communications (PLDC)	13,000	T
2018	Hawaiki	Coogee (Australia), Mangawhai Heads (New Zealand), Tafuna (American Samoa), Kapolei, Hawaii (U.S.A), Pacific City, Oregon (U.S.A)	Hawaiki Submarine Cable Limited Partnership	14,300	T
2017	Crozet CTBTO	Acoustic node deployment in support of CTBTO	L-3 Communications MariPro Inc.	116	P
2017	MAREA	Virginia Beach, VA (USA) and Bilbao, (Spain)	Edge Networks Services Limited, Microsoft Ireland Operations Limited	6,600	T
2017	New Cross Pacific	Hillsboro, Oregon (U.S.A.), Chongming (China mainland), Nanhui (China mainland), Lingang (China mainland), Busan (South Korea), Toucheng (Taiwan), and Maruyama (Japan)	NCP consortium, comprised of China Mobile, China Telecom, China Unicom, Chunghwa Telecom, KT Corporation, Microsoft, and SoftBank Mobile Corp	13,000	T
2016	Shell Fiber Optic System	Fiber connectivity to Appomattox and Perdido	Shell Offshore Inc.	168	T
2016	Monet Cable System	Santos and Fortaleza in Brazil with Boca Raton, Florida	Algar Telecom (Brazil), Angola Cables (Angola), Antel (Uruguay) and Google	10,556	T

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2016	Asia-Africa-Europe-1	Hong Kong SAR, (China), Vietnam, Cambodia, Kuala Kurau (Malaysia), Satun (Thailand), Mumbai (India), Karachi (Pakistan), Al Bustan (Oman), Fujairah (UAE), Doha (Qatar), Aden (Yemen), Djibouti, Jeddah (Kingdom of Saudi Arabia), Zafarana and Abu Talat (Egypt), Chania (Greece), Marseille (France), plus other landings under development.	AAE-1 Consortium	25,000	P
2015	AEConnect	Shirley, NY(USA) and Killala (Ireland)	Aqua Comms Limited	5,400	T
2015	Hibernia Express	Halifax, Nova Scotia and Brea, UK	Hibernia Networks	4,600	T
2015	Chevron BGF	Fiber connectivity to Big Foot	Chevron USA Inc.	65	T
2014	Poseidon System	Pentaskhinos & Yerskipopse (Cyprus)	Ocean Specialists Inc.	622	P
2014	Juan Fernandez CTBTO	Acoustic node deployment in support of CTBTO	L-3 Communications MariPro Inc.	83	P
2014	Chevron JSM	Fiber connectivity to Jack & St. Malo	Chevron USA Inc.	130	T
2013	Shell Fiber Optic System	Fiber connectivity to Mars, Olympus, Auger	Shell	131	T
2013	GlobeNet Segment 5	Tuckerton, New Jersey (USA) to St. David's, Bermuda	BRASIL TELECOM OF AMERICA, INC	1,306	T
2013	South-East Asia Cable System	The SJC Cable System is a trunk and branch architecture between Tuas (Singapore) to Chikura (Japan) with base landings to Chung Hom Kok (Hong Kong), Shantou (China), and Nasugbu (Philippines), a branch landing in Telisai (Brunei), as well as one optional landing in Songkhla (Thailand)	Brunei International Gateway (BIG), China Mobile International Ltd. (CMI), China Telecommunications Corporation (CT), Donghua Telecom Co., Ltd. (DHT), Globe Telecom, Inc. (Globe), Google SJC Bermuda Ltd. (Google), KDDI Corporation (KDDI), PT Telekomunikasi Indonesia International (Telin), Singapore Telecommunications Limited (SingTel), and TOT Public Company Limited (TOT)	9,841	P
2011	Gulf Bridge International Cable System	GBICS connects cable stations in and among Iran, Iraq, Kuwait, Saudi Arabia, Bahrain, Qatar, the United Arab Emirates.	Gulf Bridge International	4,719	T
2011	TATA Communications Gulf Cable System	Oman with India via an existing stubbed branching unit on the SEACOM Cable System, and Section 3UT, which includes Cable Stations in the United Arab Emirates (UAE), Qatar, Bahrain, and Saudi Arabia.	Tata Communications (Bermuda) Ltd.	2,306	T
2011	UWash/RSN	Ocean observing system installed off the coast of Washington and Oregon on the Juan de Fuca Plate.	L-3 Communications MariPro, Inc.	802	P

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2010	Chevron Fiber Optic System	Fiber connectivity to Blind Faith & Tahiti	Chevron USA Inc.	60	T
2010	CSnet-Offshore Communications Backbone	Ocean observing and tsunami warning system offshore Cyprus	Ocean Specialists Inc.	250	P
2010	EIG	Segment S4 connects landing points in Egypt South, Jeddah (Saudi Arabia), Djibouti, Barka (Oman) and Mumbai (India).	AT&T Corp.; Cable & Wireless UK Communications; Global Network Services Ltd.; Communications Networking Services (UK); Djibouti Telecom S.A.; Republic of Djibouti; Emirates Integrated Telecommunications Company; Gibtelecom Limited; Mauritius Telecom Ltd; MCI International, Inc. MTN International (Mauritius) Limited; Oman Telecommunications Company SAOG; PT Comunicações, S.A.; Saudi Telecom Company; Terrasse Boieildieu La Defense VERIZON FRANCE Telecom Egypt; Telkom SA Limited	6,737	P
2010	UNITY	Landing points in Japan and the United States.	Bharti Airtel Limited Global Transit Ltd Google Cable Bermuda Ltd KDDI Corporation Pacnet Limited Singapore Telecommunications Limited	9,486	P
2010	The Kwajalein Cable System	KCS connects cable stations on the islands of Guam and Kwajalein	Hannon Armstrong KCS Funding LLC (Purchaser); TKC Technology Solutions, LLC (Operator)	2,887	T
2010	MainONE	The undersea network connects landing points in Portugal, Ghana and Nigeria.	MainONE Cable Company Ltd.	14,000	T
2009	Middle-East North Africa Submarine Cable System Segment 1	Jeddah, Saudi Arabia and Suez, Egypt. There is at least one Branching Unit near Jeddah for future connection southwards from the Jeddah area.	Orascom Telecom Holdings SAE	1,221	T
2009	SEA Cable System	South Africa, Mozambique, Madagascar, Tanzania, Kenya, India and Egypt	SEACOM, Ltd	13,740	T
2011	TATA Communications Gulf Cable System	Oman with India via an existing stubbed branching unit on the SEACOM Cable System, and Section 3UT, which includes Cable Stations in the United Arab Emirates (UAE), Qatar, Bahrain, and Saudi Arabia.	Tata Communications (Bermuda) Ltd.	2,306	T

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2009	Middle-East North Africa Submarine Cable System Segment 1 Extension to Oman	The existing MENA Red Sea System (Suez to Jeddah with BU) is extended to connect with Al Seeb, Oman	Orascom Telecom Holdings SAE	3,971	T
2009	PPC-1 CABLE SYSTEM	Sydney (Australia), Guam (USA) and Madang (Papua New Guinea)	PPC 1 Limited	7,185	T
2008	Trans-Pacific Express	Qingdao (Shandong); Keoje (Korea); Tanshui (Taipei); Chongming (Shanghai); Nedonna (Oregon, USA)	China Network Communications Group Corporation; China Telecommunications Corporation; China United Telecommunications Corporation; Chunghwa Telecom Co., Ltd. KT Corporation Int'l & Satellite Telecommunication Department MCI International, Inc.	26,333	T
2008	Matrix Cable System	Singapore to Jakarta; Batam and Pontianak	Matrix Networks Pte. Ltd.	1,438	T
2008	PAC-Costa Rica	Parrita, Costa Rica	Global Crossing International Networks Ltd. and Global Crossing Costa Rica S.R.L.	155	T
2008	Columbia Florida Express-1 (CFX-1)	Boca Raton (USA), Cartagena (Colombia) and Bull Bay (Jamaica)	New World Network, Ltd.	2,423	T
2008	Caucasus Cable System	Poti and Varna	Caucasus Networks. Ltd.	1,187	T
2009	DANICE Cable System	Landeyjasandur, Iceland to Iceland Blaabjerg. Denmark	Eignarhaldsfélagið Farice ehf (E-Farice)	2,248	T
2008	AKORN Cable System	Anchorage and Nikiski, plus a repeatered cable system between Homer and Florence	ACS Cable Systems, Inc.	3,087	T
2007	British Petroleum Gulf of Mexico Fiber Optic Network	BP GoM FON Pascagoula, MS, USA and Freeport, TX, USA via a network of offshore oil platforms in the Gulf of Mexico	BP America Production Company	1,190	T
2007	NWN-Trinidad Curacao	Trinidad and Curacao	New World Network, Ltd	1,031	T
2007	Extensions to the SAm-I Cable System	Puerto Rico to Colombia.	Telefonica International Wholesale Services America S.A., Telefonica International Wholesale Services Colombia S.A., Telefonica International Wholesale Services Ecuador S.A., Telefonica International Wholesale Services Peru S.A.C., T I Wholesale Services Puerto Rico, Inc.	2,511	T

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2007	Extensions to the SAm-I Cable System	Puerto Rico to Colombia.	Telefonica International Wholesale Services America S.A., Telefonica International Wholesale Services Colombia S.A., Telefonica International Wholesale Services Ecuador S.A., Telefonica International Wholesale Services Peru S.A.C., T I Wholesale Services Puerto Rico, Inc.	2,511	T
2005	TWA-1	Al Fujarah – Karachi	Transworld Associates	1,241	T
2005	Antilles Crossing	Barbados – St. Croix	Antilles Crossing International, LP, Antilles – St. Croix Inc., Antilles Crossing (St. Lucia) Limited	972	T
2005	BDSN-i	Nassau to Port au Prince	The Bahamas Telecommunications Company, Ltd.	2,817	T
2004	Tata Indicom India-Singapore Cable System	Chennai India – Singapore	Tata Indicom	3,350	T
2003	Svalbard Submarine Optical Fibre Transmission System	Svalbard, Norway -Norway	Norsk Romsenter Eindom AS (Norwegian Space Centre)	2,800	T
2002	C2C	Philippines - Hong Kong - Taiwan - China – Korea - Japan - Singapore	C2C	17,000	P
2002	TGN Atlantic	NY, USA – UK	TyCom	13,025	T
2002	TGN West Europe	Portugal – Spain – UK	TyCom	3,578	T
2002	TGN Pacific	Japan –Guam; Japan – OR, USA - CA, USA	TyCom	22,134	T
2001	HIBERNIA	Canada - UK –Ireland - Canada	WORLDWIDE FIBER Inc.	12,111	T
2001	SAM-1	FL, USA- Puerto Rico – Brazil – Argentina –Chile –Peru –Guatemala – FL, USA	Telefonica (Spain)	19,964	T
2001	SAFE	South Africa -Reunion-Mauritius-India-Malaysia	France Telecom, Mauritius Telecom, MCI International, Telekom Malaysia Berhard, Telkom Communications International, Videsh Sanchar Nigam Limited.	13,000	T
2001	ARCOS	FL, USA - Bahamas - Turks and Caicos - Dominican Republic - Puerto Rico - Netherlands Antilles - Venezuela - Columbia - Panama - Costa Rica - Nicaragua - Honduras - Guatemala - Belize - Mexico	AAC&R DR, Alestra, Avantel, BatelCo, Belize Telecom, Ltd, Cable Onda, CANTV, Caribbean Cable Links Inc., Centennial Puerto Rico Operations, Centennial Undersea Cable Corp., CODETEL, Concert Ltd., Genuity, HonduTel, IMPSAT-USA, ISA, MCII, New World Network, NICATEL, Orbinet Inc., TRICOM-USA, TRICOM-DR, UltraCom	1,994	P

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2001	Australia Japan	Japan – Guam - Australia	Concert, WorldCom, Japan Telecom, NTT Communications, Telstra	12,224	P
1998	PANAM	Chile-Peru-Ecuador-Panama-Columbia-Venezuela-Aruba-St Croix	AT&T, Sprint, KDD, MCI, Entel (Chile), Telefonica de Peru, Telecom Italia, Telmex, Telecom Columbia, ICE (Costa Rica), Intel (Panama), Antel (El Salvador), Entel (Bolivia), Telcor (Nicaragua), Telefonica, CANTV & others	7,000	P
1998	AC-1	U.S.-UK-Germany-Netherlands	Global Crossing Ltd.	14,000	T
1998	Petrobras Campos Basin	Macaes plus offshore facilities	Petrobras	475	T
1997	APCN	Korea-Japan-Taiwan-Philippines-Malaysia-Singapore	KDD, AT&T, Korea Telecom, Chunghwa Telecom, PLDT, HKT, CAT, Telekom Malaysia, SingTel, PT Indosat, Globe Telecom, Celcom, Telefonica, Teleglobe, Telstra, BT, Worldcom, China Telecom, IDC, Dacom, Vietnam Telecom, DBP	11,813	P
1997	FLAG	Europe-Mid-East-Indian Ocean-Far East	NYNEX, Marubeni, Dallah-Al Baraka (Saudi), and Gulf Assoc. (USA), Telecom Holding Co. (Thailand), the Asian Infrastructure Fund.	26,203	P
1997	ANTILLAS	San Juan, PR to Punta Cana, Dominican Rep.	AT&T, MCI, Sprint, Telefonica Larga Distancia, TresCom, Codetel and Tricom of the Dominican Republic	585	T
1997	BAHAMAS II	Nassau and Freeport, Bahamas; to FL, USA	AT&T, Batelco (Bahamas), Telefonica, Teleglobe, MCI, Sprint, TresCom	473	T
1997	BUS-1	Bermuda to NJ, USA	TeleBermuda	1,310	T
1997	HIFN	Hawaii Inter-Island	GST Telecom	744	T
1997	St. Thomas - St.Croix (C1)	St. Thomas to St. Croix, U.S. Virgin Islands	AT&T and others	75	T
1996	TAT-12/13	NY, USA –RI, USA -UK-France-NY, USA	AT&T, KDD, BT, France Telecom, Telecom Eireann, MCI, Sprint, Telefonica, Telecom Denmark, Chunghwa Telecom, PLDT, Turk Telecom, Teleglobe, Telstra, Belgacom, MFS Worldcom, SingTel, WorldExchange, Korea Telecom, Viatel, Primus	12,307	P
1996	ITUR	Sicily-Turkey-Ukraine-Russia	Telecom Italia, Iritel, Rostelecom, Turk Telecom, BT, DBP Telekom, France Telecom, Telefonica, AT&T, MCI, Sprint, Ukrtec, SingTel, Bezeq, Romtelecom, BTC (Bulgaria), Belgacom, Beltelecom	3,466	P
1996	BRAZIL FESTOON	Aracaju to Sitio, Brazil; Campos to Vitoria, Brazil	Embratel	2,552	P
1996	PALAU	Palau	Palau National Communications Corp.	201	T

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1995	TPC-5	CA, USA – HA, USA - Hawaii-Guam- Japan-CA, USA	AT&T, KDD, Entel (Peru), Chunghwa Telecom, PLDT, MCI, Sprint, Globe Telecom, Telefonica, Teleglobe, Telstra, Belgacom, BT, MFS Worldcom, SingTel, Turk Telecom	24,441	P
1995	CYPRUS- ISRAEL (CIOS)	Israel-Cyprus	Bezeq, CYTA, AT&T, Sprint, MCI, Belgacom, BT	400	T
1995	CANUS 1	NJ, USA-Nova Scotia	Optel Communications, Teleglobe. More than twenty-five carriers have bought capacity on the cable, including DBP Telekom, Telecom Finland, SPT Telecom (Czech), Rostelecom, Korea Telecom, Telecom Denmark, Telia, PTT of Iceland, Ukrtec, AT&T, MCI, Sprint	1,360	T
1995	CADMOS	Cyprus-Lebanon	CYTA, Lebanese PTT, Syrian Telecom Establishment, AT&T, Teleglobe, MCI, Belgacom, BT	260	T
1995	LK. MICHIGAN	MI, USA	AT&T	97	T
1995	FLAG CHINA EXT	Shanghai, China	NYNEX, Marubeni, Dallah-Al Baraka (Saudi), and Gulf Assoc. (USA), Telecom Holding Co. (Thailand), the Asian Infrastructure Fund. 53 carriers are buying capacity on the system including Teleglobe, AT&T, Belgacom, KDD, DBP Telekom, Telefonica, IDC, ITJ	620	P
1994	SEA-ME-WE 2	Southeast Asia-MidEast-Western Europe	AT&T, SingTel, France Telecom, Batelco, Tunsie Telecom, VSNL (India), Saudi Telecom, Chunghwa Telecom, Turk Telecom, PLDT, PT Indosat, KDD, Infonet, Telecom Italia, Teleglobe, Sprint, MCI, Telstra, Belgacom, BT	21,000	P
1994	HICS	Oahu-Kauai-Maui, Hawaii	HTC	482	T
1994	UNISUR	Brazil-Uruguay-Argentina	Telintar (Argentina), Embratel (Brazil), Antel (Uruguay), Entel (Chile), AT&T, KDD, ITJ, IDC, Telefonica, Teleglobe, Sprint, MCI, Telstra, BT, SingTel	1,714	P
1994	AMERICAS 1	FL, USA-St. Thomas – Trinidad – Venezuela – Brazil	All America Cables & Radio (D.R.), Antel (El Salvador), Antel (Uruguay), Antelco (Paraguay), Austria PTT, AT&T, Belgacom, BET (Barbados), BT, C&W, CANTV, Codetel (D.R.), CPRM, Dacom, DBP Telekom, Embratel, Entel (Chile), France Telecom, GT&T	8,116	T
1993	HAW-5	California-Hawaii	AT&T, Sprint, MCI, OTI, MFS Worldcom, Chunghwa Telecom, GTE Hawaiian Tel, Telstra, Teleglobe, France Telecom, DBP Telekom, KDD, Long Distance/USA, Belgacom, Fedex Intl, Entel (Chile), PLDT, BT, SingTel, WorldExchange	4,757	T

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1993	PACIFIC RIM EAST	HA, USA –New Zealand	Telstra, TCNZ, AT&T, Sprint, IDC, Entel (Chile), Clear, Telecom Eireann, BT, CAT, DBP Telekom, Swiss Telecom, JTB, GTE, Hong Kong Telecom, ITJ, Chunghwa Telecom, Telecom Italia, KDD, Korea Telecom, MCI, Mercury, France Telecom, PLDT, PT Indosat	7,810	P
1993	Q-C-C	Qualo-Chemlu-Cameron Lake	Teleglobe, British Columbia Telephone	177	T
1993	APC	Singapore-Malaysia-Hong Kong-Taiwan-Japan	AT&T, Sprint, KDD, MCI, IDC, Hong Kong Telecom, Chunghwa Telecom, Mercury, Telekom Malaysia, PLDT, SingTel, Turk Telecom, Teleglobe, Telstra, BT, MFS Worldcom	7,517	P
1993	TAT-11	NJ, USA -UK-France	AT&T, Sprint, MCI, BT, France Telecom, Mercury, MFS Worldcom, C&W, Telecom Eireann, Telecom Denmark, Chunghwa Telecom, PLDT, KDD, Teleglobe, Belgacom, SingTel	7,105	P
1993	TURMEOS-1	Instanbul -Izmir-Mararis, Turkey	Turk Telecom	1,225	P
1993	CHINA - JAPAN (CJOFSC)	Miyazaki, Kyushu, Japan; to Nanhui, China	AT&T, KDD, China Telecom, ITJ, IDC, MCI, Sprint, Teleglobe, Telstra, BT, SingTel	1,302	P
1992	TAT-9	NJ, USA - Canada-UK-France-Spain	AT&T, France Telecom, Telefonica, MCI, Telstra, Sprint, BT, Mercury, Comsat, IDC, ITJ, Teleglobe, Belgacom, Telecom Eireann, Telecom Denmark, PLDT, KDD, Turk Telecom, Swiss Telecom, MFS Worldcom, SingTel	9,305	P
1992	TAT-10	RI, USA-Germany	AT&T, DBP Telekom, BT, MCI, Sprint, KDD, MFS Worldcom, KPN (Netherlands), IDC, Telstra, Korea Telecom, Chunghwa Telecom, Telmex, Telefonica, TCNZ, Hong Kong Telecom, Belgacom, Telecom Denmark, PLDT, Turk Telecom, Teleglobe	8,962	T
1992	TAINO-CARIB	Puerto Rico-St. Thomas-Tortola	AT&T, TLD (Puerto Rico), MCI, Sprint, C&W, Embratel, GTE, Teleglobe, TSTT, Telecom Italia, KDD, Telmex, Telefonica, Teleglobe, CANTV, Telintar (Argentina), Telecom (Colombia), TresCom, and PTT of Haiti	186	P
1992	MAT-2	Italy - Spain	Telecom Italia, AT&T, KDD, MCI, PLDT, Sprint, Swiss Telecom, Telefonica, Teleglobe, Turk Telecom, Telstra, BT	1,988	P
1990	Korea Domestic	Cheju Island to Kohung, Korea	Korea Electric Power Corp.	182	T
1990	GPT	Guam-Philippines-Taiwan	AT&T, KDD, ITJ, IDC, Sprint, MCI, Chunghwa Telecom, PLDT, Teleglobe, Telstra, BT, SingTel	3,728	P
1990	FLORICO 2	FL, USA - Puerto Rico	AT&T	1,911	T



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1990	HJK	Hong Kong-Japan-Korea	KDD, Hong Kong Telecom, Korea Telecom, AT&T, SingTel, ITJ, IDC, MCI, PLDT, Sprint, Teleglobe, Telstra, BT	4,566	P
1990	TCS-1	Puerto Rico-Dominican Republic – Jamaica – Columbia	AT&T, MCI, Sprint, C&W, MFS Worldcom, TSTT, Telefonica, PTTs of Jamaica, Colombia, Haiti, Barbados, and the Dominican Republic, Teleglobe, TresCom	2,648	T
1989	TPC-3	HA, USA - Japan; with branch to Guam	AT&T, KDD, BT, Sprint, MCI, ITT, DBP Telekom, Dacom, Chunghwa Telecom, TCNZ, ITJ, IDC, Entel (Peru), PLDT, Teleglobe, Telstra, SingTel	9,000	P
1989	HAW-4	CA, USA – HA, USA	AT&T, KDD, BT, Sprint, MCI, ITT, DBP Telekom, Dacom, Chunghwa Telecom, TCNZ, ITJ, IDC, Entel (Peru), PLDT, Teleglobe, Telstra, SingTel	4,238	T
1988	TAT-8	NJ, USA -UK-France	AT&T, BT, MCI, Sprint, CICI, France Telecom, MFS Worldcom, IDC, ITJ, Belgacom, Telecom Eireann, Telecom Denmark, Turk Telecom, Swiss Telecom, Teleglobe, Telstra, Korea Telecom	6,705	P
1986	OPTICAN-1	Tenerife-Gran Canaria, Spain	Telefonica	119	T