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TRATADO ANTARTICO
XII REUNION CONSULTIVA

TRAITE SUR L'ANTARCTIQUE
XII REUNION CONSULTATIVE

ANTARCTIC TREATY
XII CONSULTATIVE MEETING

ДОГОВОР ОБ АНТАРКТИКЕ
XII КОНСУЛЬТАТИВНОЕ СОВЕЩАНИЕ

CANBERRA
13-27 SEPTEMBER
1983

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23 September 1983
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ITEM 5: DRAFT RECOMMENDATION ON THE COLLECTION AND DISTRIBUTION OF ANTARCTIC METEOROLOGICAL DATA

(Prepared by the Telecommunications Working Group)

THE COLLECTION AND DISTRIBUTION OF ANTARCTIC METEOROLOGICAL DATA

The Representatives,

Recalling Recommendation VI-3 and X-3;

Noting Resolutions 4,5,6,7 and 8 of the WMO Executive Committee, Thirty Fourth Session, June 1982, concerning meteorological observing networks, collection and transmission of meteorological data and meteorological data processing in Antarctica;

Recognising

(1) the continuing importance of Antarctic meteorological data for support of operations within Antarctica and for weather forecasting and research, especially climate research in the rest of the world;

(2) the need to maintain a basic network of meteorological stations providing surface and upper-air synoptic data to meet in so far as possible the requirements of Consultative Parties and of the WMO World Weather Watch;

(3) the diminished value of meteorological data if it is not available to users within and outside the Antarctic in accordance with the WMO schedules for the receipt of raw and processed data;

(4) the paucity of Antarctic meteorological surface and upper air data and the consequent importance of maintaining regularity of meteorological observations;

(5) that the increasing shipping and aircraft activities in Antarctica will give rise to increasing demands for meteorological support;

Reaffirming the importance of the WMO Global Telecommunications System (GTS) for purposes of transmitting Antarctic meteorological data between Antarctic stations in cases where direct transmission within Antarctica is inhibited by ionospheric conditions, and noting that the adoption by some Consultative Parties of satellite communications may facilitate the reception within Antarctica of meteorological data from the GTS;

Noting

(1) that monitoring carried out by WMO in 1982 and 1983 on the flow of Antarctic meteorological data into the GTS indicates that significant deficiencies remain;

(2) the reactivation of the WMO Executive Committee Working Group on Antarctic Meteorology and the outcome of its Third Session in April 1982, including preliminary work on a review of the requirements for raw and processed data set out in Annexes 1 and 2 of Recommendation VI-3;

(3) the efforts of the WMO Meeting of Experts on Antarctic Data Telecommunication Arrangements in June 1983, in

reviewing and updating the meteorological telecommunications routing diagrams set forth in Annexes 1, 2 and 3 of Recommendation X-3;

(4) that the aforesaid WMO Meeting of Experts arrived at a number of conclusions and recommendations aimed at improving Antarctic telecommunications for meteorological purposes, and at improving the manner in which Antarctic meteorological data is transmitted within the GTS of the WMO World Weather Watch;

Recognising the need to keep under review:

(1) the requirements for raw and processed Antarctic meteorological data;

(2) the arrangements for transmission of meteorological data within Antarctica and between Antarctica and the WMO World Weather Watch system;

Recommend to their Governments that:

(1) They use their best endeavours, subject to any overriding scientific, administrative or budgetary considerations, to secure full implementation of the network of stations and observational programs set forth in Annex 1 of this Recommendation;

(2) They maintain and improve, subject to any overriding scientific, administrative or budgetary considerations, the system for collection and distribution of meteorological data

to, from and within Antarctica having regard to the routing arrangements shown in Annexes 2 and 3, which are based on the conclusions of the WMO Meeting of Experts on Antarctic Data Telecommunication Arrangements in June 1983;

(3) They seek, through their Permanent Representatives with WMO, the completion of Annex IV to the Final Report of the aforesaid WMO Meeting of Experts, as a helpful contribution to planning the exchange of available meteorological data;

(4) They seek, through their Permanent Representatives with WMO, to ensure that consideration is given, as appropriate, to other conclusions and recommendations made by the aforesaid WMO Meeting of Experts;

(5) They invite WMO through their Permanent Representatives with that Organisation, to keep under review the arrangements for routing of meteorological data within Antarctica and between Antarctica and the GTS of the World Weather Watch, and to suggest actions which might be taken to improve the timely receipt of data at stations in Antarctica and at World Meteorological Centres Melbourne, Moscow and Washington and other centres in the World Weather Watch System, having particular regard to changing requirements for meteorological information and to opportunities offered by new technology;

(6) They note that the statements of requirements for raw and processed Antarctic meteorological data provided by the WMO pursuant to Recommendation X-3 paragraph 9 require refinement, and invite WMO, through their Permanent Representatives with that Organization, to undertake such refinement.

ANNEX 1 *

STATIONS AND OBSERVATIONAL PROGRAMMES COMPRISING THE BASIC SYNOPTIC NETWORK IN THE ANTARCTIC

INDEX NUMBER	NAME OF THE STATION*	SURFACE**								RADIOWIND/ RADIOVENT				RADIO-SONDE	
	1	2								3				4	
		00	03	06	09	12	15	18	21	00	06	12	18	00	12
85984	CENTRO MET. ANTARTICO PDTE. EDUARDO FREI***	X		X		X		X							
85986	B.A. ARTURO PRAT	X		X		X		X							
85988	B.A. BERNARDO O'HIGGINS	X		X		X		X							
88925	SIGNY ISLAND	X		X		X		X							
88952	FARADAY (ARGENTINE ISLAND)	X		X		X		X		X		X		X	X
88962	FOSSIL BLUFF	X		X		X		X							
89022	HALLEY	X		X		X		X		X		X		X	X
89062	ROTHERA POINT	X		X		X		X							
88963	ESPERANZA B.E.	X		X		X		X							
88968	ISLAS ORCADAS D.N. (OBSERVATORIO METEOROLOGICO)	X		X		X		X		X		X		X	X
88970	TENIENTE B. MATIENZO B.A.	X		X		X		X							
88971	ALMIRANTE BROWN E.C.	X		X		X		X							

* The names of stations are considered to be as geographical designators and are not indicative of functions.

** Where possible when other requirements make it desirable, observations should also be made at some or all of the four intermediate standard times of observation, i.e. 0300, 0900, 1500 and 2100 GMT.

*** Stations carrying out data-processing and meteorological service functions.

* Note this Annex is reproduced from the Annex to Resolution 5 of the W.M.O. Executive Committee Session of June 1982 (ECXXIV).

INDEX NUMBER	NAME OF THE STATION*	SURFACE**								RADIOWIND/ RADIOVENT				RADIO-SONDE	
	1	2								3				4	
		00	03	06	09	12	15	18	21	00	06	12	18	00	12
89034	GENERAL BELGRANO II B.E.	X		X		X		X							
89045	GENERAL BELGRANO III B.E.	X		X		X		X							
89055	VICECOMODORO MARAMBIO B.A. CENTRO METEORO-LOGICO ANTARTICO***	X		X		X		X		X		X		X	X
89066	GENERAL SAN MARTIN B.E.	X		X		X		X							
89001	S.A.N.A.E. STATION	X		X		X		X		X		X		X	X
89002	GEORG VON NEUMAYER	X		X		X		X							
89009	AMUNDSEN-SCOTT	X		X		X		X		X		.		X	.
89664	MCMURDO	X		X		X		X		X		.		X	.
89050	BELLINGSHAUSEN	X		X		X		X		X		X		X	X
89132	RUSSKAYA	X		X		X		X							
89512	NOVOLAZAREVSKAJA	X		X		X		X		X		X		X	X
89542	MOLODEZNAJA***	X		X		X		X		X		X		X	X
89592	MIRNYJ	X		X		X		X		X		X		X	X
89606	VOSTOK	X		X		X		X		X		X		X	X
89657	LENINGRADSKAJA	X		X		X		X		X		X		X	X
89532	SYOWA	X		X		X		X		X		X		X	X
89571	DAVIS	X		X		X		X		X		X		X	X
89611	CASEY	X		X		X		X		X		X		X	X
94986	MAWSON***	X		X		X		X		X		X		X	X
95502	DUMONT D'URVILLE	X		X		X		X		X		X		X	X

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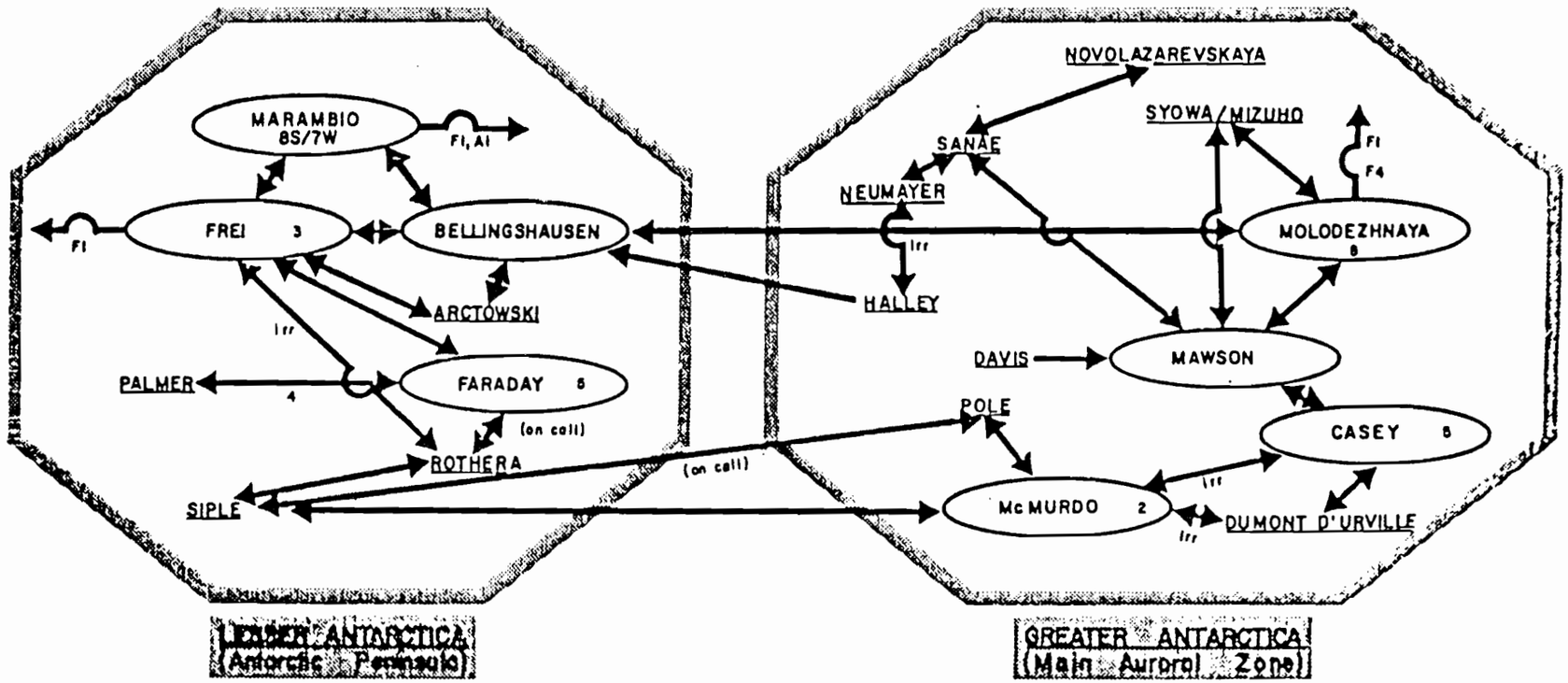
** Where possible when other requirements make it desirable, observations should also be made at some or all of the four intermediate standard times of observation, i.e. 0300, 0900, 1500 and 2100 GMT.

*** Stations carrying out data-processing and meteorological service functions.

EXISTING LINKS FOR THE DAILY INTERNATIONAL EXCHANGE OF METEOROLOGICAL DATA WITHIN THE ANTARCTIC (June 1983)

LATITUDE 60° SOUTH



NAME (S/W) — ANTARCTIC COLLECTING STATION WITH THE NUMBER OF STATIONS FROM WHICH DATA ARE COLLECTED

S: SUMMER

W: WINTER

TELECOMMUNICATION MEANS

POINT TO POINT LINK

S/W — OMNIDIRECTIONAL RADIO BROADCAST

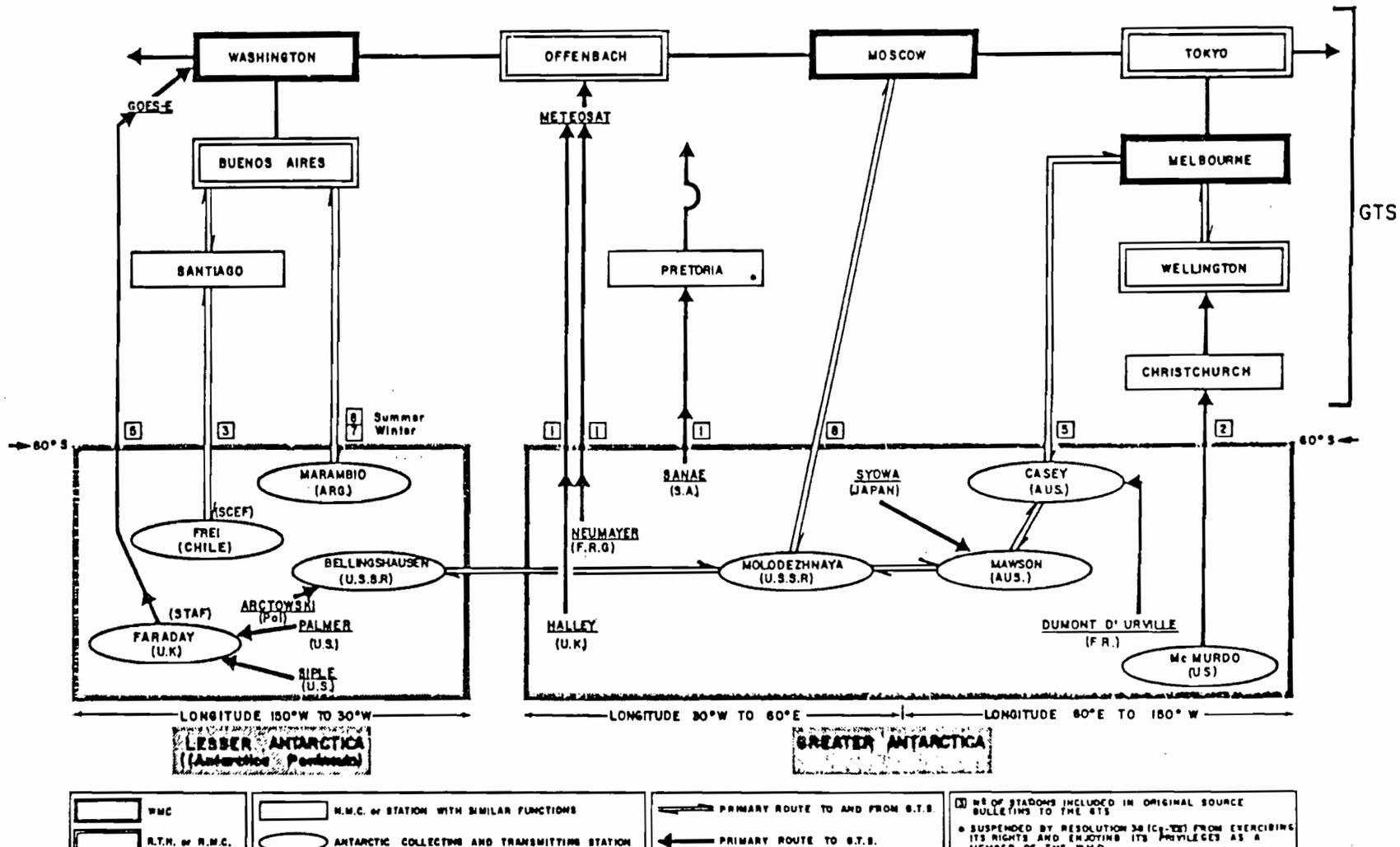
Irr : IRREGULAR

RADIO BROADCASTS

FREI	F1: H + 05 (SYNOP)
MARAMBIO	A1, F1: H + 30 (SYNOP), H + 160 (TEMP)
MOLODEZHNAYA	F4, F1: H + 45 (SYNOP), H + 180 (TEMP)

ANNEX 2

PRINCIPAL ROUTES BY WHICH ANTARCTIC METEOROLOGICAL DATA ENTERS THE GTS



ANNEX 3