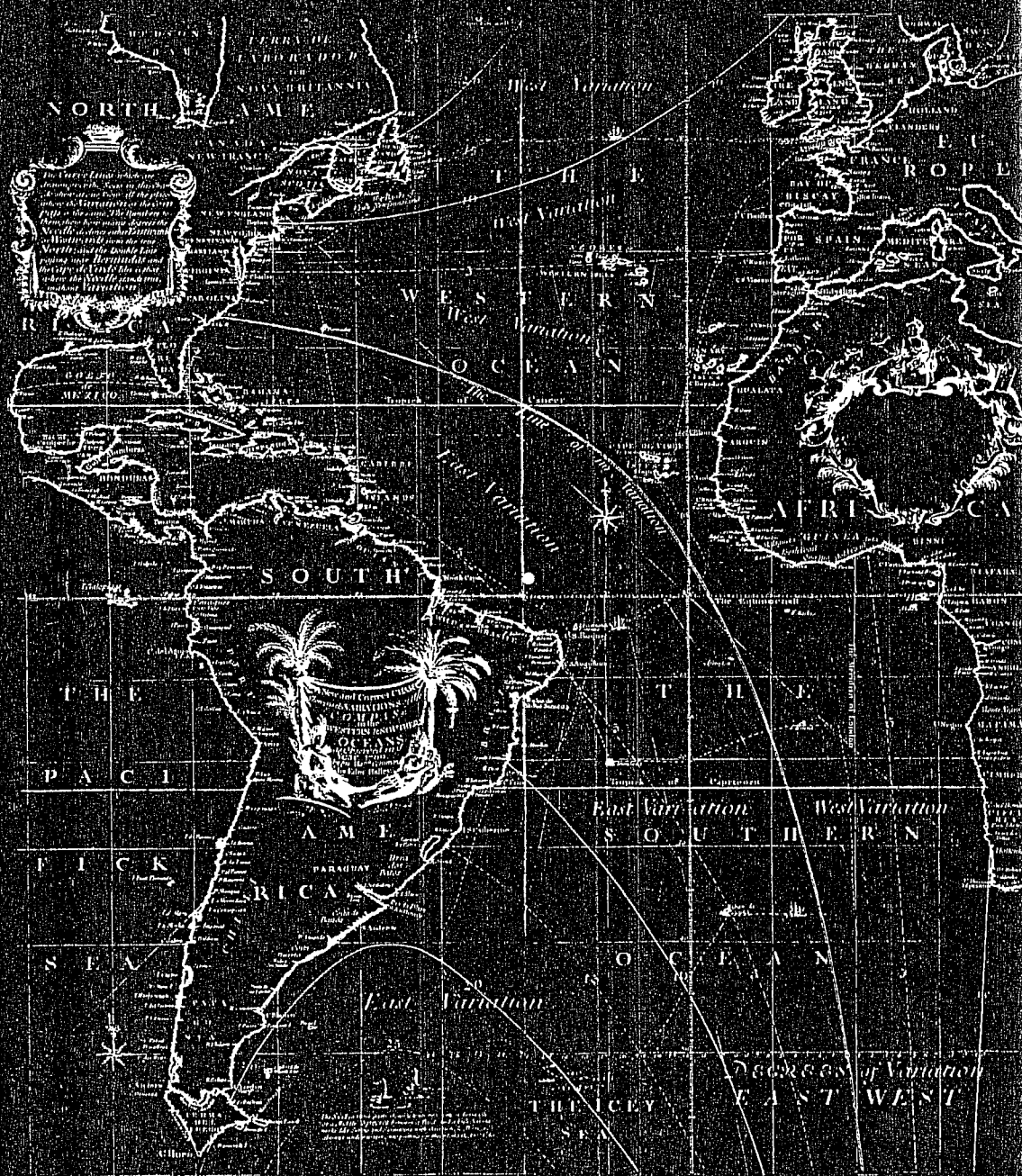


REGIONAL MAGNETIC SURVEY, Chart, and Model Descriptions





REGIONAL MAGNETIC SURVEY, CHART, AND MODEL DESCRIPTIONS

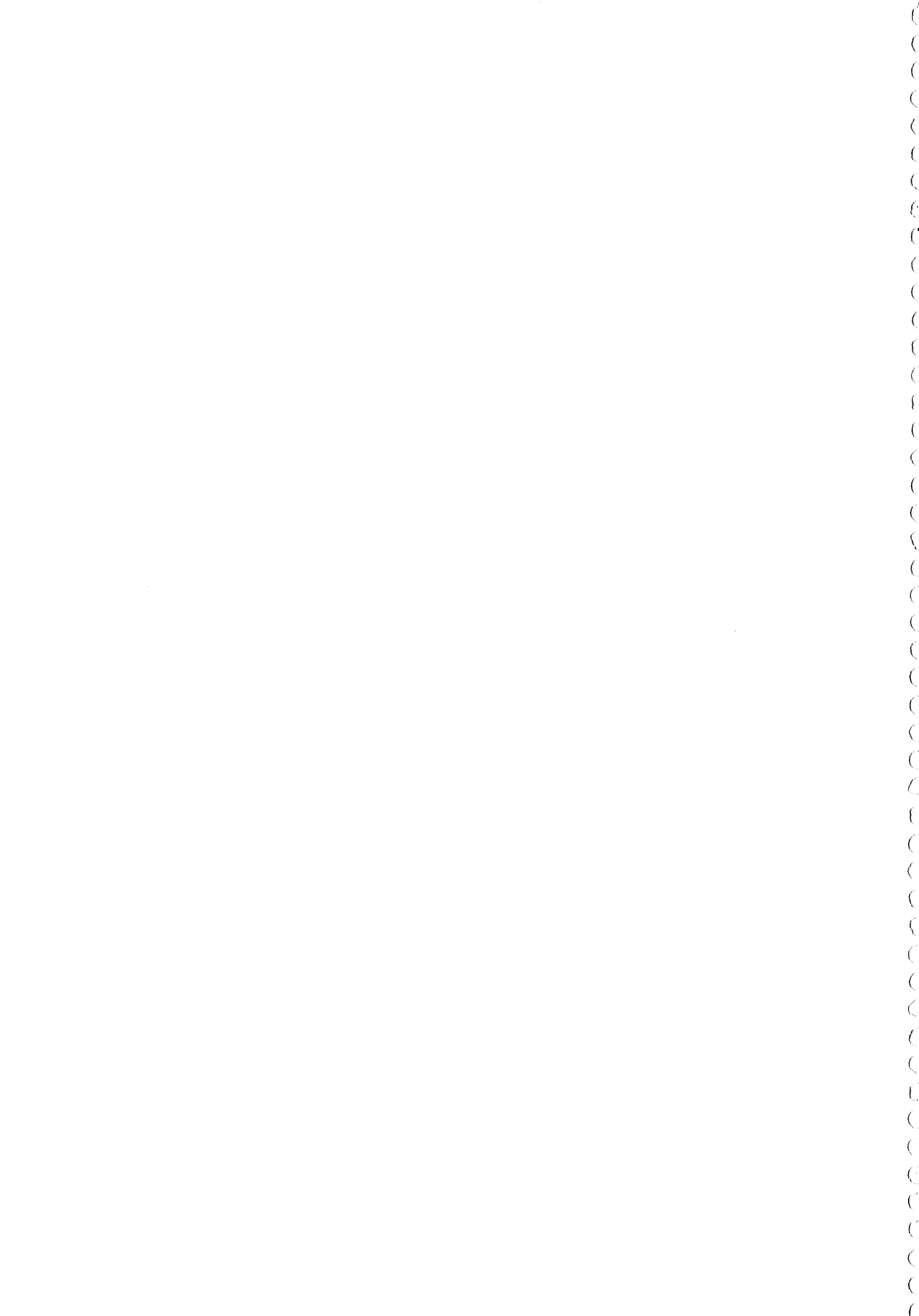
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compiled by

C.E. Barton and L.R. Newitt

IAGA Working Group V-8:

Analysis of the global and regional geomagnetic field
and its secular variation.



ARGENTINA

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FIELD SURVEYS (NON-REPEAT)

Type of survey	Stations	Dates
Ground-Scalar (F)	3375	1983-1995, once only

REPEAT STATIONS AND OBSERVATORIES

Reference observatories

LAS	Las Acacias	-35.007 °N	302.310 °E	20 m	(1962+)
TRW	Trelew	-43.248 °N	294.685 °E	10 m	

Repeat stations	Occupations
Old stations	not available
- ditto -	1995
27	Monthly observations of F

Two systems are operated by the National Meteorological Service:

- 1) Repeat station from past years are currently being reoccupied; completion is expected before the end of 1995.
- 2) Observations of scalar total intensity are made monthly at 27 repeat stations along the shore of Mar del Plata as far as Miramar cities, Argentina.

Repeat stations markers: some stations are defined by distances from nearby objects, as recorded on a sketch.

Fieldwork: once per month

OBSERVATIONAL PROCEDURES FOR REPEAT STATIONS

Absolute Instruments

F Proton precession magnetometer (Geometrics G-856)

Variometers: none

DATA REDUCTION PROCEDURES FOR REPEAT STATIONS

Reference observatories at Las Acacias and Trelew are used for data reduction.

CHARTS AND MODELS

Date	Components	Chart	Model
1970	three	yes	Taylor polynomials

Models of the normal geomagnetic field and the secular variation are produced by using Taylor polynomials fitted by the method of least squares. Each of three elements of the field are modelled independently.

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