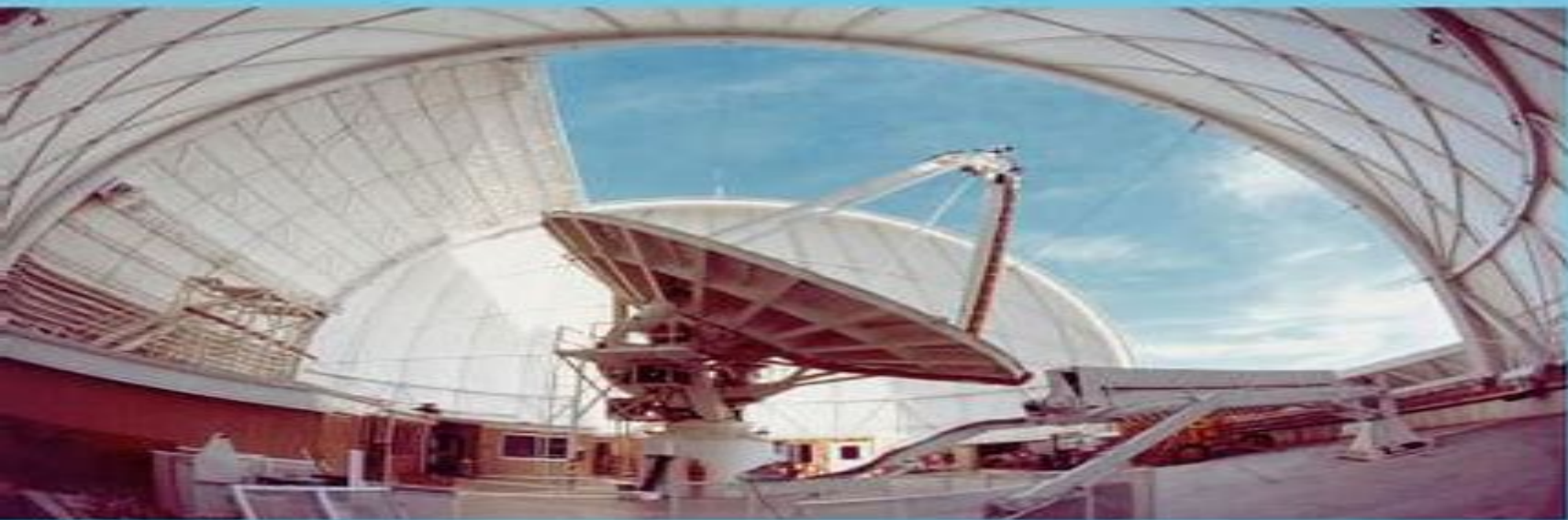


RECOLLECTIONS OF "TUCSON OPERATIONS"

The Millimeter-Wave Observatory of the
National Radio Astronomy Observatory

M.A. GORDON



Recollections Of Tucson Operations The Millimeterwave Observatory Of The National Radio Astronomy Observatory

Barbara A. Tinucci, Louann Chaudier



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Recollections of "Tucson Operations" Mark Gordon, 2005-01-14 A personal account of the evolution of millimeter wave astronomy at the US National Radio Astronomy Observatory The author recounts the behind the scenes activities of the staff from the beginnings at Kitt Peak to the closing of the Tucson offices

Recollections of "Tucson Operations" M.A. Gordon, 2006-03-30 A personal account of the evolution of millimeter wave astronomy at the US National Radio Astronomy Observatory The author recounts the behind the scenes activities of the staff from the beginnings at Kitt Peak to the closing of the Tucson offices

Observatories and Telescopes of Modern Times David Leverington, 2017 Radio Observatory and Telescope Index General Index

Open Skies Kenneth I. Kellermann, Ellen N. Bouton, Sierra S. Brandt, 2020-06-29 This open access book on the history of the National Radio Astronomy Observatory covers the scientific discoveries and technical innovations of late 20th century radio astronomy with particular attention to the people and institutions involved The authors have made extensive use of the NRAO Archives which contain an unparalleled collection of documents pertaining to the history of radio astronomy including the institutional records of NRAO as well as the personal papers of many of the pioneers of U S radio astronomy Technical details and extensive citations to original sources are given in notes for the more technical readers but are not required for an understanding of the body of the book This book is intended for an audience ranging from interested lay readers to professional researchers studying the scientific technical political and cultural development of a new science and how it changed the course of 20th century astronomy With a Foreword by Ron Ekers

The ALMA Telescope Paul A. Vanden Bout, Robert L. Dickman, Adele L. Plunkett, 2023-08-17 ALMA the Atacama Large Millimeter submillimeter Array situated high in the Chilean desert is the largest ground based telescope on Earth This is an insiders account of how this complex mega project came to fruition from authors with intimate knowledge of its past and present The separate roots of ALMA in the United States Europe and Japan are traced to their merger into an international partnership involving more than 20 countries The book relates the search for a suitable telescope site challenges encountered in organization funding and construction and lessons learned along the way It closes with a review of the most significant results from ALMA now one of the most productive telescopes in the world Written for a broad spectrum of readers including astronomers engineers project managers science historians government officials and the general public the eBook edition is available to download as an Open Access publication on Cambridge Core

[The Rise of Radio Astronomy in the Netherlands](#) Astrid Elbers, 2016-11-23 Radio astronomy was born during the Second World War but as this book explains the history of early Dutch radio astronomy is in several respects rather anomalous in comparison to the development of radio astronomy in other countries The author describes how these very differences led the Netherlands to become one of the world leaders in radio astronomy Dominated by the Leiden astronomer Jan Hendrik Oort the field embarked on an era of success and to this

day the country still holds a leading position To tell this story the book focuses on three key events in the period 1940 1970 namely the construction of the radio telescopes in Kootwijk 1948 in Dwingeloo 1956 and in Westerbork 1970 These projects show that Dutch radio astronomers must not be seen as merely scientists but also as strategic lobbyists networkers and organizers in a specific political and economic context It was in the process of planning designing and constructing these instruments that the interests of the astronomers industrial partners politicians and lobby groups merged to create today's existing research centers for radio astronomy *Organizations and Strategies in Astronomy* 7 Andre HECK, 2007-09-18 Astronomy is the most ancient science humans have practiced on Earth It is a science of extremes and of large numbers extremes of time from the big bang to infinity of distances of temperatures of density and masses of magnetic field etc It is a science which is highly visible not only because stars and planets are accessible in the sky to the multitude but also because the telescopes themselves are easily distinguishable usually on top of scenic mountains and also because their cost usually represent a substantial proportion of the national budget and of the taxpayers' contributions to that budget As such astronomy cannot pass unnoticed It touches on the origins of matter of the Universe where we live on life and on our destiny It touches on philosophy as well as on religion Astronomy is the direct contact of humankind with its origins and the immensity of universal nature It is indeed a science of observation where experimentation is practically possible and which is ruled by mathematics physics chemistry statistical analysis and modelling while offering the largest number of verifications of the most advanced theories of fundamental physics such as general relativity and gravitation At the beginning of the 21st century astronomy is clearly a multidisciplinary activity touching on all aspects of science It is therefore logical that in the past and still now astronomy has attracted the most famous scientists be they pure observers mathematicians physicists biologists experimentalists and even politicians **The Paraboloidal Reflector Antenna in Radio Astronomy and Communication** Jacob W. M.

Baars, 2007-07-16 Radio astronomers have developed techniques of calibration of large reflector antennas with radio astronomical methods but these have not been comprehensively described This text aims to fill this gap taking a practical approach to the characterisation of antennas All calculations and results in the form of tables and figures have been made with Mathematica by Wolfram Research The reader can use the procedures for the implementation of his own input data

Frontiers of Astrophysics Alan H. Bridle, James Justin Condon, Gareth C. Hunt, 2008 In celebration of its 50th anniversary the NRAO hosted a science symposium highlighting the most important questions that can be addressed by astronomers The universe is a unique laboratory yielding historical data on the creation of the universe the formation of the first stars and galaxies the production of the elements the assembly of molecules and the building blocks of life in interstellar space how and where planets form and possible changes in fundamental physical constants on cosmological time scales This laboratory contains black holes neutron stars and gravitational radiation for studying extreme gravity and extremely dense matter It is filled with the mysterious dark energy and dark matter that control the expansion and destiny of the universe and whose

nature is a critical unsolved problem for physics This symposium brought together leading scientists to address the most important questions in these areas the major contributions to astronomy enabled by NRAO instruments past present and future and to suggest future directions for research involving radio observations and techniques BOOK JACKET *But it was Fun* Felix J. Lockman, Frank D. Ghigo, Dana S. Balser, 2007 *American Book Publishing Record*, 2003

International Aerospace Abstracts, 1979 *Who's who in Technology Today*, 1980 **Who's who in Technology Today** Barbara A. Tinucci, Louann Chaudier, 1984 Millimeter-wave Telescope, Kitt Peak, Tucson, Arizona National Radio Astronomy Observatory (U.S.), 1987 **25 Meter Millimeter Wave Telescope Memos** National Radio Astronomy Observatory (U.S.), 1974 **25 Meter Millimeter Wave Telescope Reports** National Radio Astronomy Observatory (U.S.), 1973 12 Meter Millimeter Wave Telescope Memos National Radio Astronomy Observatory (U.S.), 1973 25 Meter Millimeter Wave Telescope Unnumbered Reports National Radio Astronomy Observatory (U.S.), 1975 Visitor Information: the NRAO 12-meter Millimeter-wave Telescope National Radio Astronomy Observatory (U.S.), 1990

Unveiling the Energy of Verbal Beauty: An Emotional Sojourn through **Recollections Of Tucson Operations The Millimeterwave Observatory Of The National Radio Astronomy Observatory**

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