

How Tom Saved Me from Slicing
and Dicing Brains - Radar!

Eugene Clothiaux
worked with Tom from 1991-1998 or so

I know exactly when I met Tom:

10:30 AM on April 21, 1991, in the
pastry line during a break of the
conference

AIP CONFERENCE PROCEEDINGS 247

GLOBAL WARMING: PHYSICS AND FACTS

WASHINGTON, D.C. 1991

EDITORS:

BARBARA GOSS LEVI
PHYSICS TODAY

DAVID HAFEMEISTER
SENATE FOREIGN RELATIONS COMMITTEE

RICHARD SCRIBNER
GEORGETOWN UNIVERSITY

AIP

American Institute of Physics

New York

CONTENTS

Preface	vii
Introduction	ix
Biographical Notes on Contributors	xiii
A Tutorial on Global Atmospheric Energetics and the Greenhouse Effect	1
T. P. Ackerman	
Global Climate Models: What and How	24
D. A. Randall	
Comparison of General Circulation Models	46
R. D. Cess	
Climate and the Earth's Radiation Budget	55
V. Ramanathan, B. R. Barkstrom, and E. F. Harrison	
Temperature and Sea Level Change	78
G. A. Maul	
Short-Term Climate Variability and Predictions	113
J. Shukla	
The Great Ocean Conveyor	129
W. S. Broecker	
Trace Gases in the Atmosphere: Temporal and Spatial Trends	162
D. R. Blake	
The Geochemical Carbon Cycle and the Uptake of Fossil Fuel CO₂	175
J. F. Kasting and J. C. G. Walker	
Forestry and Global Warming: The Physical and Policy Linkages	201
M. C. Trexler	
Policy Implications of Greenhouse Warming	222
R. Coppock	
Options for Lowering U.S. Carbon Dioxide Emissions	237
R. M. Bierbaum, R. M. Friedman, H. Levenson, R. D. Rapoport, and N. Sundt	
Options for Reducing Carbon Dioxide Emissions	261
A. H. Rosenfeld and L. Price	
Science and Diplomacy: A New Partnership to Protect the Environment	292
R. E. Benedick	
Author Index	311

What had to go right to make this a possibility?

The conference was sponsored by the AIP and was advertised in the Department of Physics at Brown University.

Tom made an exception to his “no travel on the weekend rule” because of his interest in this particular conference.

My wife Jessica told me that I had better talk with someone about a job.

I picked Tom.

Geniuses!

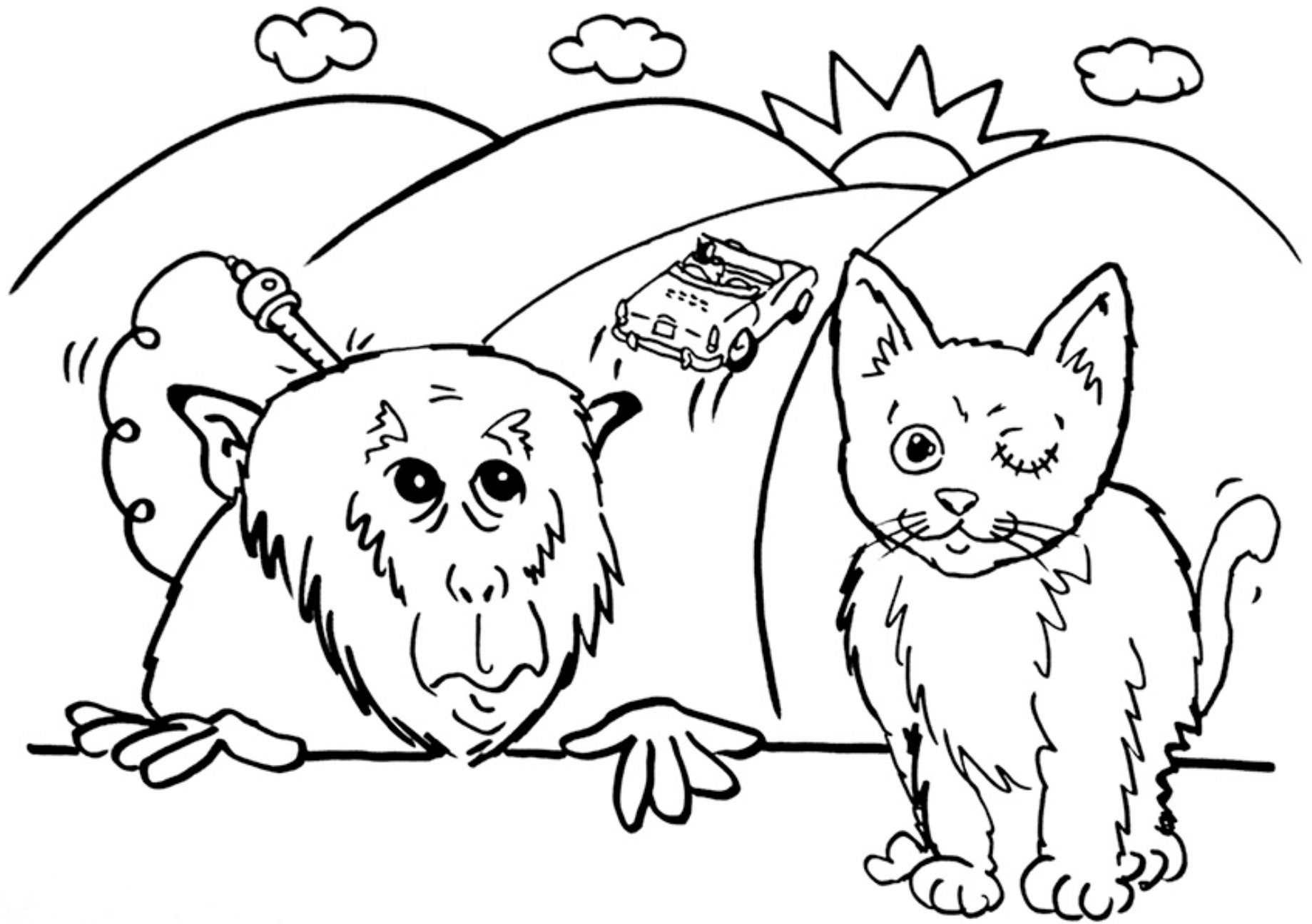
Tom for being Tom and me for picking him to talk with on that Sunday morning.

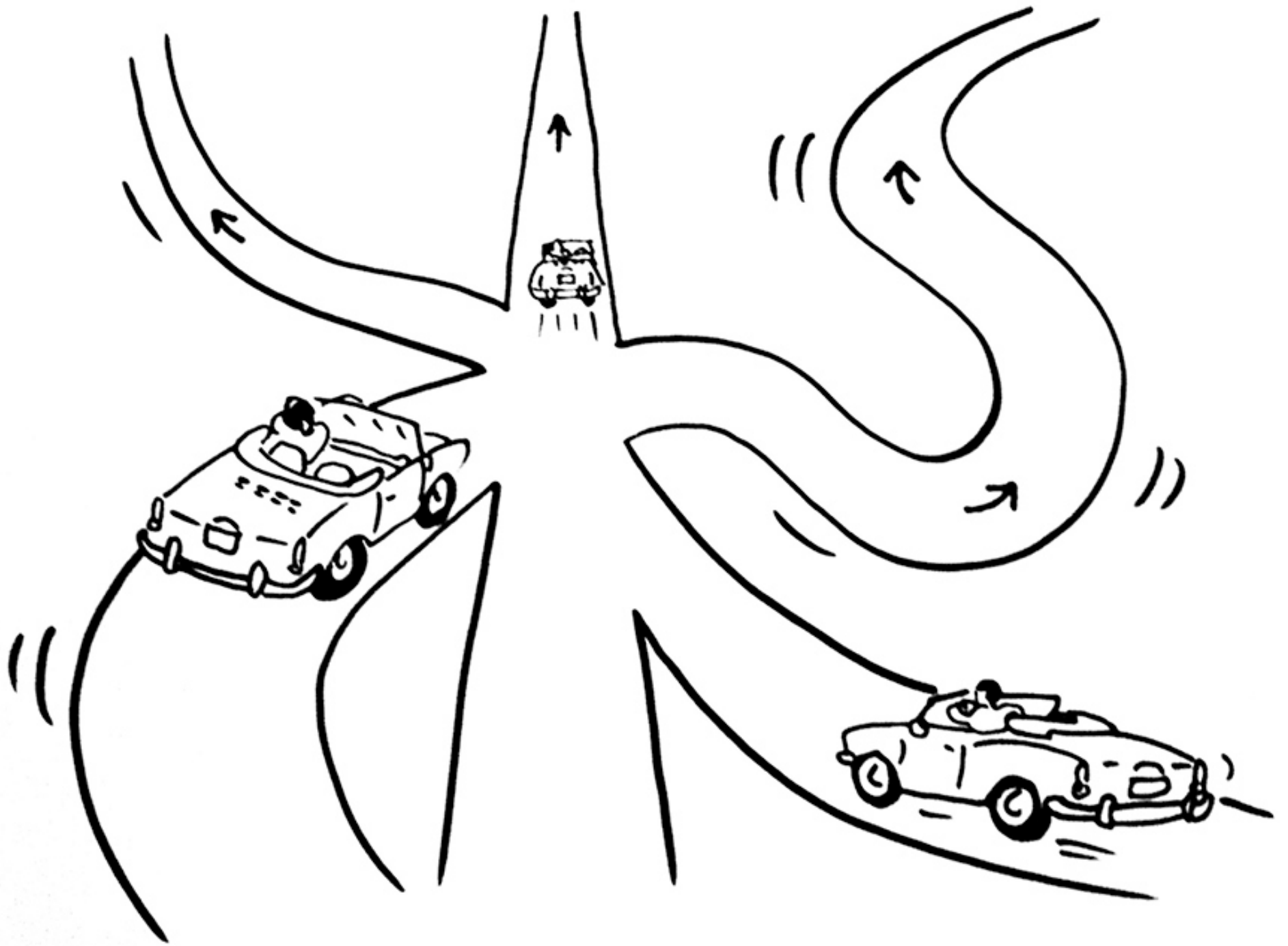
Why does my picking Tom to speak with make me a genius?

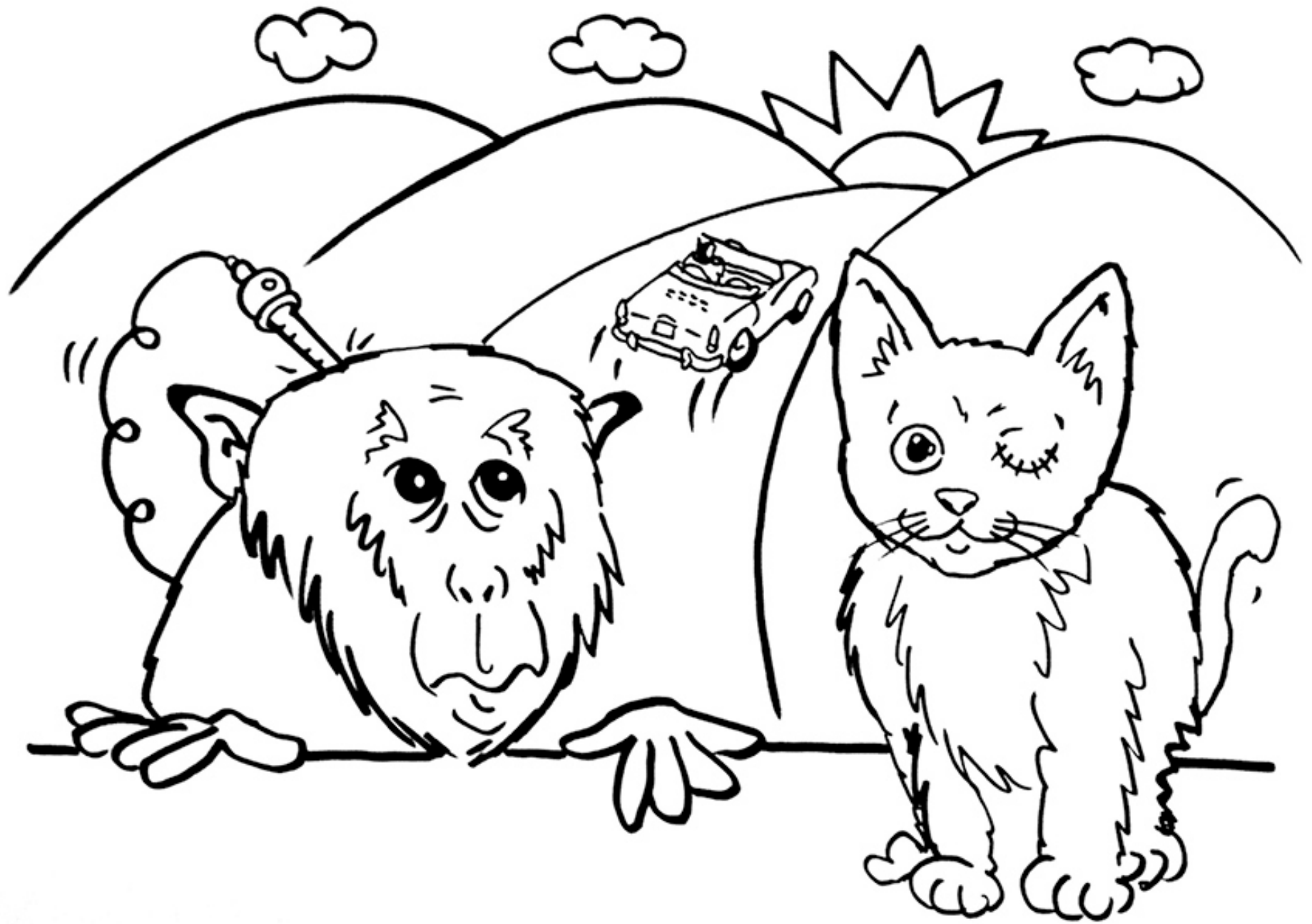
Tom's special personality trait:
Taking an interest in the quirkiest of folks.

Just look around the room!

Tom is absolutely
SECOND TO NONE
in this regard!!!

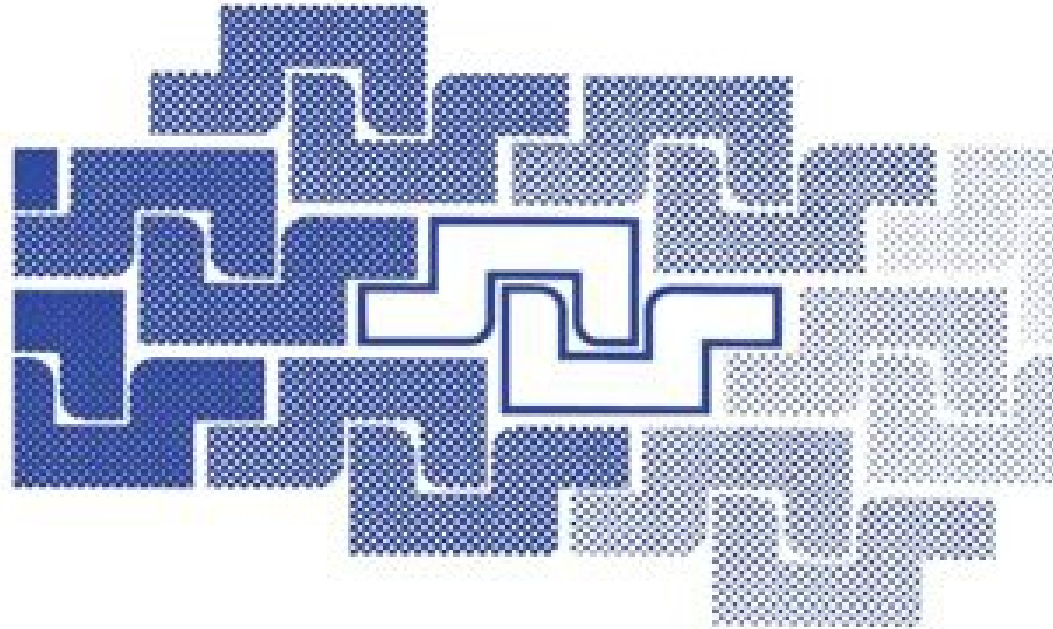












Radiation and Water in the Climate System

Remote Measurements

Edited by
Ehrhard Raschke

NATO ASI Series

Series I: Global Environmental Change, Vol. 45

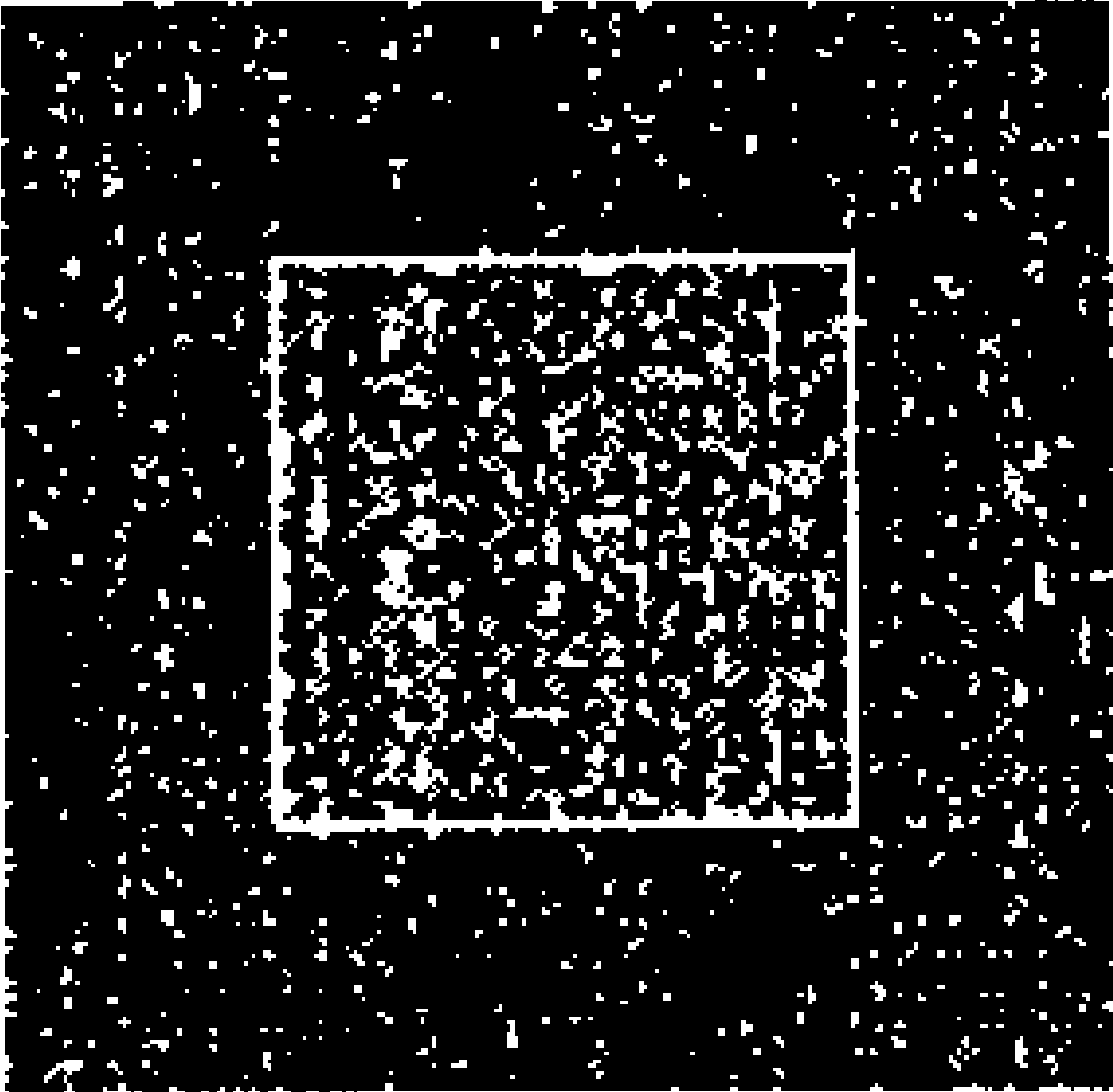
Radiation and Water in the Climate System

Ground-Based Remote Sensing of Cloud
Properties Using Millimeter-Wave Radar
pp 323-366

Eugene E. Clothiaux

T. P. Ackerman

David M. Babb



Clouds are really difficult (perhaps impossible?) to quantify and many scientists have given up on them to pursue more tractable problems.

Not Tom. He has steadfastly worked to understand them over the better part of his career.

MOST IMPRESSIVE!

DOE ARM TWP Site Scientist Meeting
with Sandia National Laboratory Folks:

“My Guardian Angel”