Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report

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ABSTRACT

Major features of the South Western Tropical Pacific, defined between 160°E-140°W and 24°S-10°S, are brought to light through analysis of surface water samples (23000) and temperature profiles (8500) gathered during the 1979-85 period.

Mean vertical thermal structure, sea surface temperature (SST) and salinity (SSS) are first portrayed, to further quantify their 1979-85 respective variability. It is demonstrated that the observed seasonal and interannual variabilities, the latter being associated with the strong 1982-83 El Nino, are mostly governed by specific mechanisms involving varying wind field and rainfall regime.

During the non ENSO period (1979-81+1984-85), SST annual cycle and 0-100m thermal structure changes are tied to the seasonal variations of the sun position (minimum SST in August). Below the mean position of the SPCZ is a marked seasonal SSS cycle (minimum SSS in March). This minimum occurs 2-3 months after minimum E-P whose variations suffice to explain SSS changes, assuming a 28±7m mixed layer depth, in agreement with sporadic density profile observations. It suggests that SSS annual cycle is mostly driven by the E-P regime associated with the SPCZ intensity and meridional migration. Noteworthy, the seasonal meridional migration of the SPCZ also causes alternation of cyclonic and anticyclonic wind stress curls west of 175°W and between 13°S-17°S. Such migration governs the seasonal thermocline depth variations through the Ekman pumping mechanism.

During the ENSO period (1982-83), notable changes in the vertical temperature distribution were perceivable between 10°S-15°S, in the upper 100m. These changes occured in response to the anomalous wind stress field that strongly uplifted the thermocline through local Ekman pumping (as much as 70m in May 1983). In the northern part of the studied region (i.e., in the warm pool area), the thermocline shoaling modified the whole water column all the way to the surface, and was thus responsible for the observed SST cooling anomaly (-0.5°C to -1°C). In the southern part, similar SST cooling anomaly were concomitant with positive latent heat flux anomaly (>20Wm-2) related to an increase in the northward wind component. At the mean SPCZ position, the drastic +1 SSS increase mainly resulted from a rainfall deficit associated with the equatorward shift of the SPCZ.

1. Introduction

In the frame of the international TOGA and COARE programmes, the poorly documented South Western Tropical Pacific ocean (Fig.1) is of main interest to study. Indeed.

- it is situated below the mean position of the South Pacific Convergence Zone (SPCZ), i.e., under the influence of its related wind stress, rainfall regime and convective activity,
- its northern part belongs to the warm pool area (SST > 28°C), and it is located in the rainiest part of the tropical Pacific ocean,
- it lies in between Tahiti and Darwin where the sea level pressure records define the usual Southern Oscillation Index (SOI).



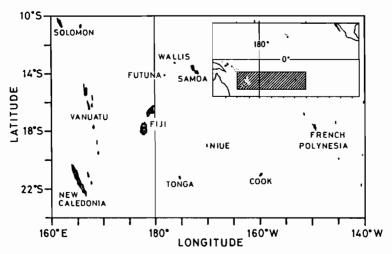


FIG.1. Location of the south western tropical Pacific in relation to the Pacific ocean.

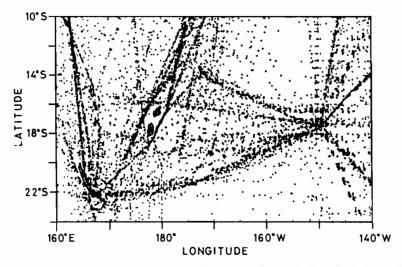


FIG.2. Spatial distribution of temperature/depth observations deployed during 1979-85 in the south western tropical Pacific.

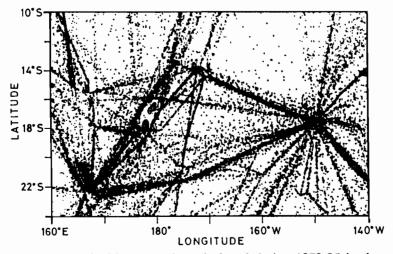


FIG.3. Spatial distribution of SSS observations deployed during 1979-85 in the south western tropical Pacific.

Thanks to a subsurface and surface monitoring, a basic description of the mean hydrological structures and of the 1979-85 variability was undertaken. Specific mechanisms responsible for this variability were identified and tested.

2. The data

Subsurface data (Fig.2) are mainly issued from an ORSTOM-SIO ship of opportunity network, and are complemented with data collected in different data banks. They consist of 8500 XBT temperature profiles (0-400m) during the 1979-85 period, i.e., about 125 XBT month⁻¹. The entire set of sea surface samples (T and S) comes from a ship of opportunity programme operated jointly by the ORSTOM centres in Nouméa and Papeete. The Sea Surface Salinity (SSS) data set (Fig.3) is composed of about 23000 observations (1979-85), i.e., about 240 SSS month⁻¹.

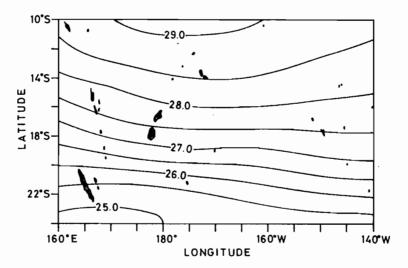


FIG.4. Mean sea surface temperature with contours at 0.5°C intervals.

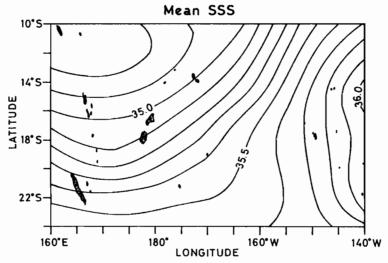


FIG.5. Mean sea surface salinity with contours at 0.1 intervals.

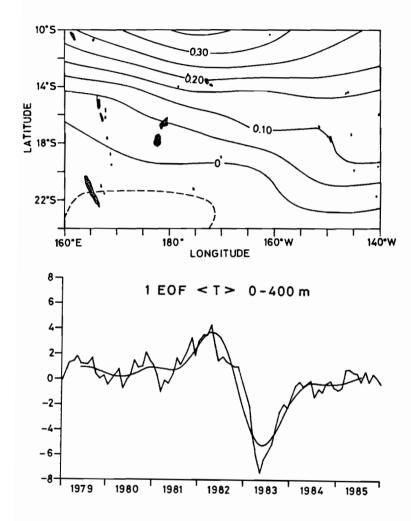


FIG.6. First empirical orthogonal function of the 0-400m average temperature with spatial pattern and time function. The broken line in the top panel denotes negative values. The low-frequency curve in the bottom panel is a result of a Fourier low pass filter removing period < 14 months.

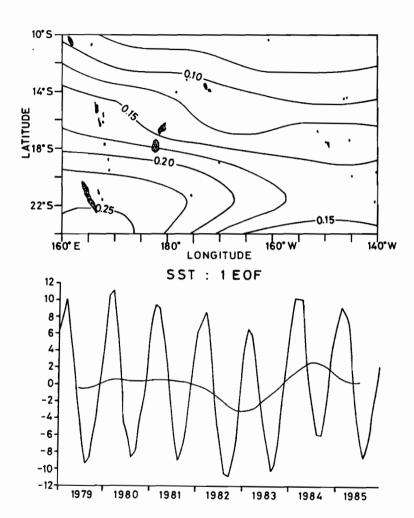
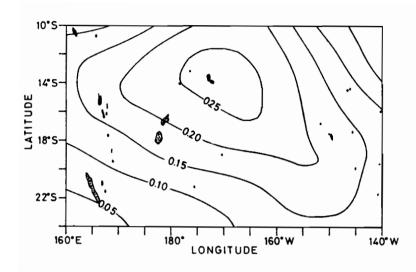


FIG.7. First empirical orthogonal function of the sea surface temperature with spatial pattern and time function. The low-frequency curve as in Fig.6.



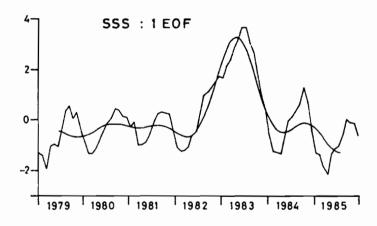
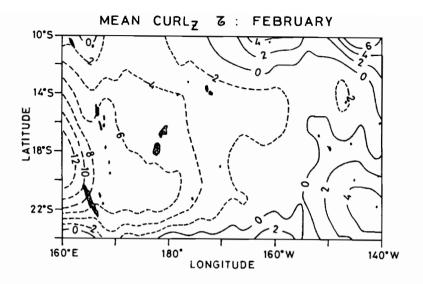


FIG.8. First empirical orthogonal function of the sea surface salinity with spatial pattern and time function. The low-frequency curve as in Fig.6.



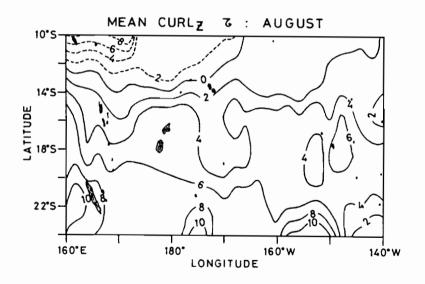


FIG.9. Mean (1979-81+1984-85) February and August wind stress curl. Contours are at $2.10^{-8} N.m^{-3}$ intervals and the broken lines denote negative values.

3. The mean structures

The mean meridional temperature-depth structure, and the mean SST and SSS distributions were computed over the 1979-81+1984-85 years, in order to exclude the 1982-83 El Nino period.

The mean meridional temperature section (not shown here; cf Delcroix and Hénin, 1989) evidences the gradual southward disappearance of the thermocline, with spreading of the isotherms south of 15°S. Schematically, the region is in the transition zone between the vertical temperature distribution of the equatorial band and the one of the extra-tropical region.

The mean SST map (Fig.4) shows zonally oriented isotherms ranging from 25°C to 29°C. North of 15°S is the southern part of the equatorial Pacific warm pool (SST > 28°C), which migrates to about 12°S and 20°S during the austral winter and summer,

respectively.

The mean SSS map (Fig.5) exibits an almost SE/NW gradient between the high salinity waters (S > 35.9) of central south tropical Pacific and the low salinity ones (S < 34.8) south of the Solomon Islands. Minimum SSS coincides with evaporation minus precipitation (E-P) minimum (cf Weare et al., 1981) where rainfall can reach as much as 5 m year⁻¹ (Taylor, 1973).

4. The 1979-85 variability

The 1979-85 variability is described here through EOF analysis of the average temperature of the upper 400m and, SST and SSS. The presentation is restricted to only the first EOF.

The first EOF on heat content (Fig.6) accounts for 43% of the variance. The corresponding time function may be decomposed into: a) an accumulation of warm water from mid-1981 to March 1982, b) a net release of heat between April 1982 and May 1983, which constitutes the strong ENSO signal, and c) a return to a "normal" situation only reached in 1984. The space function points out that the ENSO signal is mostly restricted north of 15°S.

The first EOF on SST (Fig.7) accounts for 82% of the variance and primarily represents the seasonal cycle with minimum SST in August (austral winter). The interannual variability is depicted by the low frequency curve, evidencing that SST reaches maximum cooling anomaly at the end of 1982 and early 1983. Note the preponderance of the SST annual signal versus the interannual change related to the 1982-83 El Nino.

The first EOF on SSS (Fig.8) accounts for 46% of the variance. The pattern of the eigenvector is maximum along a SE/NW axis representative of the mean SPCZ location. The time function depicts both the seasonal cycle during the "normal" 1979-81+1984-85 period (minimum SSS in March) and the interannual variability associated with the 1982-83 ENSO phenomenon. It shows that maximum SSS annual amplitude is +0.25 below the SPCZ, as compared with the large + 1 SSS increase during the El Nino period.

5. The mechanisms

Mechanisms involving varying wind field and rainfall regimes accounts for the observed sub-surface and surface changes. In the South Western Tropical Pacific, Ekman pumping, evaporation and precipitation are the main processes that all contribute to the normal seasonal cycle and/or are related to the strong ENSO effects. The role of water advection and vertical mixing will not be examined here.

a. The Ekman pumping

In off-equatorial region, the simplest dynamical mechanism that can affect the vertical thermal structure is Ekman pumping. The Ekman pumping balance is written as:

$$-\partial h/\partial t = \operatorname{curl}_{z}(\tau/\rho.f))$$
 (1) or
$$-\partial h/\partial t = \left(\operatorname{curl}_{z}(\tau) + (\beta/f).\tau^{x}\right)/(\rho.f)$$
 (2)

where h is the depth of the thermocline (>0 down) and the other variables state for their usual meaning. The equation evidences that the relative magnitude of the two right-hand side terms of Eq.(2) determines the sign of Ekman pumping. A qualitative description of these two terms is therefore presented first.

During a "normal" year, the zonal component of the wind stress is always negative (westward), whereas the seasonal meridional migration of the SPCZ induces alternation of negative (cyclonic) and positive wind stress curl, in the course of the year (Fig.9). Hence, the two terms of the equation add or balance, so the South Western Tropical Pacific may be sliced into regions: a) weakly affected by Ekman pumping, b) favourable to upwelling, c) favourable to downwelling, and d) propitious to alternation of upwelling and downwelling depending on the period of the year.

During the "abnormal" 1982-83 period, drastic wind field changes were observed. Of main interest is the reversal of the zonal component of the wind stress in early 1983 between about 13°S and 2°N, as reported in atlases (Leetmaa and Witte, 1984), papers (Kessler and Taft, 1987), and deduced here from the FSU wind field analysis. At this time, both τ^x and curl_z τ act in the same way, leading to a strong positive (upward) Ekman pumping velocity in the northern part of the studied region. The effect upon the vertical thermal structure distribution is exemplified in Fig.10.

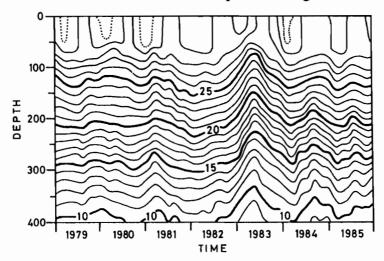


FIG.10. 1979-85 time series of isotherm depth distribution in the (10°S-12°S; 180°-170°W) box. Contours are at 1°C intervals, except for the dotted line which is the 29.5°C isotherm.

Besides the previous qualitative approach, a quantitative comparison between the two terms of the Ekman pumping equation has been performed. It is presented in Fig.11 for selected locations, and it confirms the preceding qualitative discussion.

b. Evaporation and precipitation

Evaporation and/or precipitation are related to the SPCZ which overspreads the studied region, and contributes to SST and SSS changes.

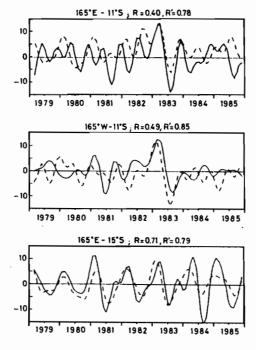


FIG.11. 1979-85 time series of the two terms of the Ekman pumping balance (see Eq. 1), at different reported locations. Solid line is $-\partial h/\partial t$, broken line is $\operatorname{curl}_z(\tau/\rho.f)$ in m.month⁻¹ (the upward motion is positive). R and R' are, respectively, the correlation coefficients between the two terms during the 1979-81+1984-85 and 1982-83 periods.

During a normal year, mean monthly values of SSS were compared with mean monthly values of E-P (Fig.12). Evaporation was calculated from Weare et al.(1981)'s formulae, and precipitation data derived from the maps of Taylor (1973). Significant correlations (R > .7) are best obtained below the mean SPCZ position, for 2-3 month lag between the twelve month series (i.e., minimum SSS 2-3 months after minimum E-P). Note that similar result is obtained when comparing SSS with only P (i.e., minimum SSS 2-3 months after maximum P). Since E-P may be reasonably written as:

$$E-P = (E-P)_{0}.\cos(\omega.t-\theta)$$
 (3)

where $(E-P)_0$ is the annual mean amplitude, ω the annual frequency and θ is one month (January), the necessary condition for only E-P governs SSS is satisfied (Hires and Montgomery, 1972). In fact, SSS minimum occurs a quarter cycle (3-months) after minimum E-P. The thickness of the mixed layer (in density) that would be required to explain that only E-P variations account for annual SSS variations was thus computed over the R>.7 area. The results show that it is 28±7 m, i.e., in agreement with sparse density measurements. This suggests that, during a normal year, mostly E-P governs SSS below the mean SPCZ position.

The drastic SSS change associated with the 1982-83 El Nino was shown in Fig.8. An estimate of the possible responsible mechanisms was performed. Although horizontal advection and vertical mixing are consistent with the 1982-83 SSS change, we found that such SSS change was mainly governed by the equatorward shift of the SPCZ (Ardanuy et al., 1987), leading to a rainfall deficit below its usual position. For example, at 12°S-170°W, assuming that rainfall linearly decreased from 0.2 m month-1 in mid-1982 (the mean June value) to 0 in mid-1983 (Ardanuy et al., 1987), we obtain a -1.2 m fresh water deficit over a one year period. Alone, such deficit would induce a 0.8 SSS rise over

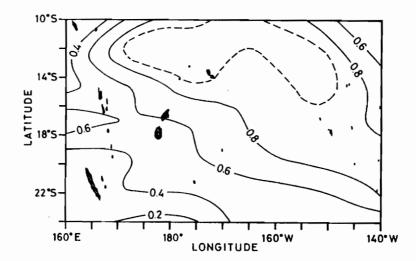


FIG.12. Correlation coefficients between sea surface salinity and evaporation minus precipitation mean years for a 2-month lag. Contour intervals at 0.2 except for the broken line which denotes the 0.9 value.

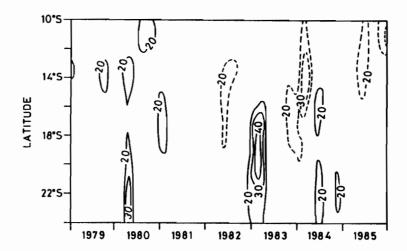


FIG.13. Zonal mean (160°E-140°W) latent heat flux anomalies (W m⁻²) with reference to the (1979-81+1984-85) mean year, as a function of time and latitude.

a 50 m mixed layer, i.e., the same order of magnitude as observed in mid-1983. Rainfall deficit thus appears to be the dominant factor influencing SSS during the 1982-83 period.

As reported before (cf. Fig.10), Ekman pumping strongly uplift the thermocline in the northern part of the studied region. It modifies the whole water column all the way to the surface, perturbating the normal SST cycle. Figure 13 evidences that the latent heat flux anomalies which occured in early 1983, may also contribute to the abnormal SST cooling observed south of about 16°S.

6. Conclusions

The above findings suggest that most of the oceanic variability observed in the South Western Tropical Pacific is related to the SPCZ which, in turn, is affected by the surface oceanic conditions (Kiladis and Van Loon, 1988). Quantifying the role of such air-sea interactions over the whole warm pool is therefore of great interest. This is the challenge of the future COARE programme.

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WESTERN PACIFIC INTERNATIONAL MEETING AND WORKSHOP ON TOGA COARE

Nouméa, New Caledonia May 24-30, 1989

PROCEEDINGS

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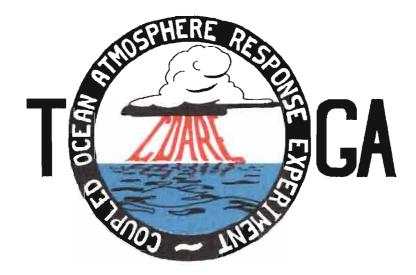




TABLE OF CONTENTS

ABSTRACT	i
RESUME	iii
ACKNOWLEDGMENTS	vi
INTRODUCTION	
1. Motivation 2. Structure	
LIST OF PARTICIPANTS	5
AGENDA	7
WORKSHOP REPORT	
1. Introduction 2. Working group discussions, recommendations, and plans a. Air-Sea Fluxes and Boundary Layer Processes b. Regional Scale Atmospheric Circulation and Waves c. Regional Scale Oceanic Circulation and Waves 3. Related programs a. NASA Ocean Processes and Satellite Missions b. Tropical Rainfall Measuring Mission c. Typhoon Motion Program d. World Ocean Circulation Experiment 4. Presentations on related technology 5. National reports 6. Meeting of the International Ad Hoc Committee on TOGA COARE	20 24 30 35 35 37 39 40 40
Robert A. Weller and David S. Hosom: Improved Meteorological	
Measurements from Buoys and Ships for the World Ocean Circulation Experiment	. 45
Peter H. Hildebrand: Flux Measurement using Aircraft and Radars	
Walter F. Dabberdt, Hale Cole, K. Gage, W. Ecklund and W.L. Smith: Determination of Boundary-Layer Fluxes with an Integrated	, 51
Sounding System	. 81

MEETING COLLECTED PAPERS

WATER MASSES, SEA SURFACE TOPOGRAPHY, AND CIRCULATION

Klaus Wyrtki: Some Thoughts about the West Pacific Warm Pool	99
Jean René Donguy, Gary Meyers, and Eric Lindstrom: Comparison of	
the Results of two West Pacific Oceanographic Expeditions FOC (1971)	
and WEPOCS (1985-86)	111
Dunxin Hu, and Maochang Cui: The Western Boundary Current in the	100
Far Western Pacific Ocean	123
Peter Hacker, Eric Firing, Roger Lukas, Philipp L. Richardson, and	
Curtis A. Collins: Observations of the Low-latitude Western Boundary	135
Circulation in the Pacific during WEPOCS III Stephen P. Murray, John Kindle, Dharma Arief, and Harley Hurlburt:	133
Comparison of Observations and Numerical Model Results in the Indonesian	
Throughflow Region	145
Christian Henin: Thermohaline Structure Variability along 165°E	175
in the Western Tropical Pacific Ocean (January 1984 - January 1989)	155
David J. Webb, and Brian A. King: Preliminary Results from	
Charles Darwin Cruise 34A in the Western Equatorial Pacific	165
Warren B. White, Nicholas Graham, and Chang-Kou Tai: Reflection of	
Annual Rossby Waves at The Maritime Western Boundary of the Tropical	
Pacific	173
William S. Kessler: Observations of Long Rossby Waves in the Northern	
Tropical Pacific	185
Eric Firing, and Jiang Songnian: Variable Currents in the Western	
Pacific Measured During the US/PRC Bilateral Air-Sea Interaction Program	20.
and WEPOCS	205
John S. Godfrey, and A. Weaver: Why are there Such Strong	216
Steric Height Gradients off Western Australia?	215
John M. Toole, R.C. Millard, Z. Wang, and S. Pu: Observations of the Pacific North Equatorial Current Bifurcation at the Philippine Coast	223
of the Pacific North Equatorial Current Birdication at the Philippine Coast	223
EL NINO/SOUTHERN OSCILLATION 1986-87	
BETTH 10,000 TIBLET OF SEEDING TO SEED THE SEED OF SEED THE SEED T	
Gary Meyers, Rick Bailey, Eric Lindstrom, and Helen Phillips:	
Air/Sea Interaction in the Western Tropical Pacific Ocean during	
1982/83 and 1986/87	229
Laury Miller, and Robert Cheney: GEOSAT Observations of Sea	
Level in the Tropical Pacific and Indian Oceans during the 1986-87	
El Nino Event	247
Thierry Delcroix, Gérard Eldin, and Joël Picaut: GEOSAT Sea	
Level Anomalies in the Western Equatorial Pacific during	
the 1986-87 El Nino, Elucidated as Equatorial Kelvin	250
and Rossby Waves Gérard Eldin, and Thierry Delcroix: Vertical Thermal Structure	259
Variability along 165°E during the 1986-87 ENSO Event	269
Michael J. McPhaden: On the Relationship between Winds and	203
Upper Ocean Temperature Variability in the Western Equatorial	
Pacific	283
	

John S. Godfrey, K. Ridgway, Gary Meyers, and Rick Bailey: Sea Level and Thermal Response to the 1986-87 ENSO Event in the Far Western Pacific	291
Joël Picaut, Bruno Camusat, Thierry Delcroix, Michael J. McPhaden, and Antonio J. Busalacchi: Surface Equatorial Flow Anomalies in the Pacific Ocean during the 1986-87 ENSO using GEOSAT	
Altimeter Data	301
THEORETICAL AND MODELING STUDIES OF ENSO AND RELATED PROCESSES	
Julian P. McCreary, Jr.: An Overview of Coupled Ocean-Atmosphere Models of El Nino and the Southern Oscillation	313
Kensuke Takeuchi: On Warm Rossby Waves and their Relations	010
to ENSO Events	329
Yves du Penhoat, and Mark A. Cane: Effect of Low Latitude Western	
Boundary Gaps on the Reflection of Equatorial Motions	335
Harley Hurlburt, John Kindle, E. Joseph Metzger, and Alan Wallcraft:	242
Results from a Global Ocean Model in the Western Tropical Pacific	343
John C. Kindle, Harley E. Hurlburt, and E. Joseph Metzger: On the Seasonal and Interannual Variability of the Pacific to Indian Ocean	
Throughflow	355
Antonio J. Busalacchi, Michael J. McPhaden, Joël Picaut, and Scott	555
Springer: Uncertainties in Tropical Pacific Ocean Simulations: The	
Seasonal and Interannual Sea Level Response to Three Analyses of the	
Surface Wind Field	367
Stephen E. Zebiak: Intraseasonal Variability - A Critical Component	
of ENSO?	379
Akimasa Sumi: Behavior of Convective Activity over the "Jovian-type"	
Aqua-Planet Experiments	389
Ka-Ming Lau: Dynamics of Multi-Scale Interactions Relevant to ENSO	397
Pecheng C. Chu and Roland W. Garwood, Jr.: Hydrological Effects	407
on the Air-Ocean Coupled System Sam F. Iacobellis, and Richard C.J. Somerville: A one Dimensional	407
	419
Allan J. Clarke: On the Reflection and Transmission of Low Frequency	717
Energy at the Irregular Western Pacific Ocean Boundary - a Preliminary	
Report	423
Roland W. Garwood, Jr., Pecheng C. Chu, Peter Muller, and Niklas	
Schneider: Equatorial Entrainment Zone: the Diurnal Cycle	
	445
Wasito Hadi, and Nuraini: The Steady State Response of Indonesian	
	451
Pedro Ripa: Instability Conditions and Energetics in the Equatorial Pacific	457
Lewis M. Rothstein: Mixed Layer Modelling in the Western Equatorial	465
Pacific Ocean Neville R. Smith: An Oceanic Subsurface Thermal Analysis Scheme with	463
Objective Overlity Control	475
Duane E. Stevens, Qi Hu, Graeme Stephens, and David Randall: The	
hydrological Cycle of the Intraseasonal Oscillation	485
Peter J. Webster, Hai-Ru Chang, and Chidong Zhang: Transmission	
Characteristics of the Dynamic Response to Episodic Forcing in the Warm	
Pool Regions of the Tropical Oceans	493

MOMENTUM, HEAT, AND MOISTURE FLUXES BETWEEN ATMOSPHERE AND OCEAN

Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	Heat Flux in the Tropical Ocean Peter A. Coppin, and John S. Godfrey: Measurements Fluxes from the Western Tropical Pacific Ocean Jolds, and Ants Leetmaa: Evaluation of NMC's Fluxes in the Tropical Pacific Fluxes in the South Fluxes in the Tropical Pacific Fluxes in the South Fluxes	W Timothy Liu: An Overview of Rulk Parametrization and Remote	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean	. 513
E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	Peter A. Coppin, and John S. Godfrey: Measurements are Fluxes from the Western Tropical Pacific Ocean 523 olds, and Ants Leetmaa: Evaluation of NMC's e Fluxes in the Tropical Pacific 535 Michael J. McPhaden, John M. Wallace, and Joël nce of Sea-Surface Temperature on Surface Wind in the Ocean 543 Richard E. Carbone: A Preliminary Morphology of ms In Tropical Northern Australia 549 Estimation of Large-Scale Oceanic Rainfall for TOGA 561 r, and Robert Frouin: Surface Radiation Processes in and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report 581 T.D. Keenan, and M.J. Manton: Observations from the at: Darwin, Australia 591 Servations of Air-Sea Interactions in the Western Pacific	77. I HIOUN DIG. AN OVERVIEW OF DURY MANDETERMOR WIG REINOR	E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean	. 313
of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	olds, and Ants Leetmaa: Evaluation of NMC's e Fluxes in the Tropical Pacific Michael J. McPhaden, John M. Wallace, and Joël nce of Sea-Surface Temperature on Surface Wind in the Ocean Stichard E. Carbone: A Preliminary Morphology of ms In Tropical Northern Australia Estimation of Large-Scale Oceanic Rainfall for TOGA To and Robert Frouin: Surface Radiation Processes in and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report T.D. Keenan, and M.J. Manton: Observations from the at: Darwin, Australia Servations of Air-Sea Interactions in the Western Pacific		of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean	
Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	olds, and Ants Leetmaa: Evaluation of NMC's e Fluxes in the Tropical Pacific	Sensing of Latent Heat Flux in the Tropical Ocean 513		522
Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	Michael J. McPhaden, John M. Wallace, and Joël nce of Sea-Surface Temperature on Surface Wind in the Ocean	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements	DIAMOND IN LANDOIDS AND ANDS LANDON LIVE INCHAS AT RIGHT	. 323
Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean	Michael J. McPhaden, John M. Wallace, and Joël nce of Sea-Surface Temperature on Surface Wind in the Ocean	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean		525
Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean 5. T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia 5. Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA 5. Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific 5. Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report 5. Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia 5.	nce of Sea-Surface Temperature on Surface Wind in the Ocean	Sensing of Latent Heat Flux in the Tropical Ocean 513 E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean 523 Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's		. 333
Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	Richard E. Carbone: A Preliminary Morphology of ms In Tropical Northern Australia 549 Estimation of Large-Scale Oceanic Rainfall for TOGA 561 r, and Robert Frouin: Surface Radiation Processes in c 571 and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report 581 T.D. Keenan, and M.J. Manton: Observations from the at: Darwin, Australia 591 servations of Air-Sea Interactions in the Western Pacific	Sensing of Latent Heat Flux in the Tropical Ocean 513 E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean 523 Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific 535		
T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	Richard E. Carbone: A Preliminary Morphology of ms In Tropical Northern Australia 549 Estimation of Large-Scale Oceanic Rainfall for TOGA 561 r, and Robert Frouin: Surface Radiation Processes in c 571 and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report 581 T.D. Keenan, and M.J. Manton: Observations from the at: Darwin, Australia 591 servations of Air-Sea Interactions in the Western Pacific	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël		
Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	ms In Tropical Northern Australia 549 Estimation of Large-Scale Oceanic Rainfall for TOGA 561 r, and Robert Frouin: Surface Radiation Processes in c 571 and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report 581 T.D. Keenan, and M.J. Manton: Observations from the at: Darwin, Australia 591 servations of Air-Sea Interactions in the Western Pacific	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the	Equatorial Pacific Ocean	. 543
Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	Estimation of Large-Scale Oceanic Rainfall for TOGA r, and Robert Frouin: Surface Radiation Processes in c	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean 513		
Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific	r, and Robert Frouin: Surface Radiation Processes in c	Sensing of Latent Heat Flux in the Tropical Ocean 513 E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean 523 Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific 535 Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean 543 T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of		
the Tropical Pacific	and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report 581 T.D. Keenan, and M.J. Manton: Observations from the at: Darwin, Australia 591 Servations of Air-Sea Interactions in the Western Pacific	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia 513 524 525 526 527 528 529 539 549		. 561
Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report	and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA 513 523 524 525 526 527 528 529 529 529 520 520 520 520 520		
Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report	and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in	the Tropical Pacific	. 571
Western Tropical Pacific during 1979-85 - A Preliminary Report	Pacific during 1979-85 - A Preliminary Report	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in	Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface	
Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	T.D. Keenan, and M.J. Manton: Observations from the at: Darwin, Australia 591 servations of Air-Sea Interactions in the Western Pacific	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface		
Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	T.D. Keenan, and M.J. Manton: Observations from the at: Darwin, Australia 591 servations of Air-Sea Interactions in the Western Pacific	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South	Western Tropical Pacific during 1979-85 - A Preliminary Report	. 581
Maritime Continent: Darwin, Australia Roger Lukas: Observations of Air-Sea Interactions in the Western Pacific	servations of Air-Sea Interactions in the Western Pacific	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South	Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the	
Roger Lukas: Observations of Air-Sea Interactions in the Western Pacific	servations of Air-Sea Interactions in the Western Pacific	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Sichard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report 513 523 524 525 526 526 527 528 529 529 529 529 520 520 520 520	Maritime Continent: Darwin, Australia	. 591
		Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg, J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia 513	Roger Lukas: Observations of Air-Sea Interactions in the Western Pacific	
Warm Pool during WEPOCS	WEPOCS 599	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg, J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia 513	Warm Pool during WEPOCS	. 599
M. Nunez, and K. Michael: Satellite Derivation of Ocean-Atmosphere Heat	Michael: Satellite Derivation of Ocean Atmosphere Heat	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia Roger Lukas: Observations of Air-Sea Interactions in the Western Pacific	M. Nunez, and K. Michael: Satellite Derivation of Ocean-Atmosphere Heat	
	Michael. Salente Derivation of Ocean-Authosphere Heat	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg, J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia Roger Lukas: Observations of Air-Sea Interactions in the Western Pacific Warm Pool during WEPOCS 535		. 611
Klaus M. Weickmann: Convection and Circulation Anomalies over the	al Environment	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean 543 T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia 549 Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA 561 Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific 571 Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report 581 Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia 591 Roger Lukas: Observations of Air-Sea Interactions in the Western Pacific Warm Pool during WEPOCS 599 M. Nunez, and K. Michael: Satellite Derivation of Ocean-Atmosphere Heat	Oceanic Warm Pool during 1981-1982	. 623
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Claire Perigaud: Instability Waves in the Tropical Pacific Observed with GEOSAT Ryuichi Kawamura: Intraseasonal and Interannual Modes of Atmosphere-Ocean System Over the Tropical Western Pacific David Gutzler, and Tamara M. Wood: Observed Structure of Convective Anomalies Siri Jodha Khalsa: Remote Sensing of Atmospheric Thermodynamics in the Tropics Bingrong Xu: Some Features of the Western Tropical Pacific: Surface Wind Field and its Influence on the Upper Ocean Thermal Structure Bret A. Mullan: Influence of Southern Oscillation on New Zealand	ES OF ENSO AND SHORT-TERM CLIMATE VARIABILITY nann: Convection and Circulation Anomalies over the olduring 1981-1982 623 Instability Waves in the Tropical Pacific Observed with 637 ra: Intraseasonal and Interannual Modes of Atmosphere-ext the Tropical Western Pacific 649 d Tamara M. Wood: Observed Structure of Convective 659 a: Remote Sensing of Atmospheric Thermodynamics in 665 ne Features of the Western Tropical Pacific: Surface Wind ence on the Upper Ocean Thermal Structure 677 nfluence of Southern Oscillation on New Zealand	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA 561 Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Serge, J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia Roger Lukas: Observations of Air-Sea Interactions in the Western Pacific Warm Pool during WEPOCS M. Nunez, and K. Michael: Satellite Derivation of Ocean-Atmosphere Heat Fluxes in a Tropical Environment EMPIRICAL STUDIES OF ENSO AND SHORT-TERM CLIMATE VARIABILITY Klaus M. Weickmann: Convection and Circulation Anomalies over the Oceanic Warm Pool during 1981-1982 Claire Perigaud: Instability Waves in the Tropical Pacific Observed with GEOSAT Ryuichi Kawamura: Intraseasonal and Interannual Modes of Atmosphere- Ocean System Over the Tropical Western Pacific David Gutzler, and Tamara M. Wood: Observed Structure of Convective Anomalies Sir Jodha Khalsa: Remote Sensing of Atmospheric Thermodynamics in the Tropics Sir Jodha Khalsa: Remote Sensing of Atmospheric Thermodynamics in the Tropics Sir Jodha Khalsa: Remote Sensing of Atmospheric Thermodynamics in the Tropics Sir Jodha Khalsa: Influence of Southern Oscillation on New Zealand	Siri Jodha Khalsa: Remote Sensing of Atmospheric Thermodynamics in the Tropics Bingrong Xu: Some Features of the Western Tropical Pacific: Surface Wind Field and its Influence on the Upper Ocean Thermal Structure Bret A. Mullan: Influence of Southern Oscillation on New Zealand	. 659 . 665
Claire Perigaud: Instability Waves in the Tropical Pacific Observed with GEOSAT Ryuichi Kawamura: Intraseasonal and Interannual Modes of Atmosphere-Ocean System Over the Tropical Western Pacific David Gutzler, and Tamara M. Wood: Observed Structure of Convective Anomalies Siri Jodha Khalsa: Remote Sensing of Atmospheric Thermodynamics in the Tropics Bingrong Xu: Some Features of the Western Tropical Pacific: Surface Wind Field and its Influence on the Upper Ocean Thermal Structure Bret A. Mullan: Influence of Southern Oscillation on New Zealand Weather	ES OF ENSO AND SHORT-TERM CLIMATE VARIABILITY nann: Convection and Circulation Anomalies over the olduring 1981-1982 623 Instability Waves in the Tropical Pacific Observed with 637 ra: Intraseasonal and Interannual Modes of Atmosphere-er the Tropical Western Pacific 649 d Tamara M. Wood: Observed Structure of Convective 659 a: Remote Sensing of Atmospheric Thermodynamics in 665 me Features of the Western Tropical Pacific: Surface Wind 677 influence of Southern Oscillation on New Zealand 687	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA 561 Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia Roger Lukas: Observations of Air-Sea Interactions in the Western Pacific Warm Pool during WEPOCS M. Nunez, and K. Michael: Satellite Derivation of Ocean-Atmosphere Heat Fluxes in a Tropical Environment EMPIRICAL STUDIES OF ENSO AND SHORT-TERM CLIMATE VARIABILITY Klaus M. Weickmann: Convection and Circulation Anomalies over the Oceanic Warm Pool during 1981-1982 Claire Perigaud: Instability Waves in the Tropical Pacific Observed with GEOSAT Ryuichi Kawamura: Intraseasonal and Interannual Modes of Atmosphere- Ocean System Over the Tropical Western Pacific David Gutzler, and Tamara M. Wood: Observed Structure of Convective Anomalies Siri Jodha Khalsa: Remote Sensing of Atmospheric Thermodynamics in the Tropics Bingrong Xu: Some Features of the Western Tropical Pacific: Surface Wind Field and its Influence on the Upper Ocean Thermal Structure 677 Bret A. Mullan: Influence on the Upper Ocean Thermal Structure 687	Siri Jodha Khalsa: Remote Sensing of Atmospheric Thermodynamics in the Tropics Bingrong Xu: Some Features of the Western Tropical Pacific: Surface Wind Field and its Influence on the Upper Ocean Thermal Structure Bret A. Mullan: Influence of Southern Oscillation on New Zealand Weather	. 659 . 665
Claire Perigaud: Instability Waves in the Tropical Pacific Observed with GEOSAT Ryuichi Kawamura: Intraseasonal and Interannual Modes of Atmosphere-Ocean System Over the Tropical Western Pacific David Gutzler, and Tamara M. Wood: Observed Structure of Convective Anomalies Siri Jodha Khalsa: Remote Sensing of Atmospheric Thermodynamics in the Tropics Bingrong Xu: Some Features of the Western Tropical Pacific: Surface Wind Field and its Influence on the Upper Ocean Thermal Structure Bret A. Mullan: Influence of Southern Oscillation on New Zealand Weather Kenneth S. Gage, Ben Basley, Warner Ecklund, D.A. Carter, and John R.	ES OF ENSO AND SHORT-TERM CLIMATE VARIABILITY nann: Convection and Circulation Anomalies over the olduring 1981-1982 623 Instability Waves in the Tropical Pacific Observed with 637 ra: Intraseasonal and Interannual Modes of Atmosphere-er the Tropical Western Pacific 649 d Tamara M. Wood: Observed Structure of Convective 659 a: Remote Sensing of Atmospheric Thermodynamics in 665 me Features of the Western Tropical Pacific: Surface Wind ence on the Upper Ocean Thermal Structure 677 influence of Southern Oscillation on New Zealand 687 Ben Basley, Warner Ecklund, D.A. Carter, and John R.	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Pleaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northem Australia 549 Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA 561 Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific 771 Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia Roger Lukas: Observations of Air-Sea Interactions in the Western Pacific Warm Pool during WEPOCS 759 M. Nunez, and K. Michael: Satellite Derivation of Ocean-Atmosphere Heat Fluxes in a Tropical Environment 611 EMPIRICAL STUDIES OF ENSO AND SHORT-TERM CLIMATE VARIABILITY Klaus M. Weickmann: Convection and Circulation Anomalies over the Oceanic Warm Pool during 1981-1982 Claire Perigaud: Instability Waves in the Tropical Pacific Observed with GEOSAT 637 Ryuichi Kawamura: Intraseasonal and Interannual Modes of Atmosphere- Ocean System Over the Tropical Western Pacific David Gutzler, and Tamara M. Wood: Observed Structure of Convective Anomalies Siri Jodha Khalsa: Remote Sensing of Atmospheric Thermodynamics in the Tropics 659 Siri Jodha Khalsa: Remote Sensing of Atmospheric Thermodynamics in the Tropics 665 Bingrong Xu: Some Features of the Western Tropical Pacific: Surface Wind Field and its Influence on the Upper Ocean Thermal Structure 677 Bret A. Mullan: Influence of South	Siri Jodha Khalsa: Remote Sensing of Atmospheric Thermodynamics in the Tropics Bingrong Xu: Some Features of the Western Tropical Pacific: Surface Wind Field and its Influence on the Upper Ocean Thermal Structure Bret A. Mullan: Influence of Southern Oscillation on New Zealand Weather Kenneth S. Gage, Ben Basley, Warner Ecklund, D.A. Carter, and John R.	. 659 . 665 . 677
Claire Perigaud: Instability Waves in the Tropical Pacific Observed with GEOSAT Ryuichi Kawamura: Intraseasonal and Interannual Modes of Atmosphere-Ocean System Over the Tropical Western Pacific David Gutzler, and Tamara M. Wood: Observed Structure of Convective Anomalies Siri Jodha Khalsa: Remote Sensing of Atmospheric Thermodynamics in the Tropics Bingrong Xu: Some Features of the Western Tropical Pacific: Surface Wind Field and its Influence on the Upper Ocean Thermal Structure Bret A. Mullan: Influence of Southern Oscillation on New Zealand Weather Kenneth S. Gage, Ben Basley, Warner Ecklund, D.A. Carter, and John R. McAfee: Wind Profiler Related Research in the Tropical Pacific	ES OF ENSO AND SHORT-TERM CLIMATE VARIABILITY nann: Convection and Circulation Anomalies over the olduring 1981-1982 623 Instability Waves in the Tropical Pacific Observed with 637 ra: Intraseasonal and Interannual Modes of Atmospherest the Tropical Western Pacific 649 d Tamara M. Wood: Observed Structure of Convective 659 a: Remote Sensing of Atmospheric Thermodynamics in 665 me Features of the Western Tropical Pacific: Surface Wind 677 nfluence of Southern Oscillation on New Zealand 687 Ben Basley, Warner Ecklund, D.A. Carter, and John R. 679 offler Related Research in the Tropical Pacific 699	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia T.D. Keenan, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific during 1979-85 - A Preliminary Report Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Sal Greg, J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia Roger Lukas: Observations of Air-Sea Interactions in the Western Pacific Warm Pool during WEPOCS M. Nunez, and K. Michael: Satellite Derivation of Ocean-Atmosphere Heat Fluxes in a Tropical Environment EMPIRICAL STUDIES OF ENSO AND SHORT-TERM CLIMATE VARIABILITY Klaus M. Weickmann: Convection and Circulation Anomalies over the Oceanic Warm Pool during 1981-1982 Claire Perigaud: Instability Waves in the Tropical Pacific Observed with GEOSAT Ryuichi Kawamura: Intraseasonal and Interannual Modes of Atmosphere-Ocean System Over the Tropical Western Pacific David Gutzler, and Tamara M. Wood: Observed Structure of Convective Anomalies Sir Jodha Khalsa: Remote Sensing of Atmospheric Thermodynamics in the Tropics Bingrong Xu: Some Features of the Western Tropical Pacific: Surface Wind Field and its Influence on the Upper Ocean Thermal Structure Kenneth S. Gage, Ben Basley, Warner Ecklund, D.A. Carter, andJohn R. McAfee: Wind Profiler Related Research in the Tropical Pacific	Siri Jodha Khalsa: Remote Sensing of Atmospheric Thermodynamics in the Tropics Bingrong Xu: Some Features of the Western Tropical Pacific: Surface Wind Field and its Influence on the Upper Ocean Thermal Structure Bret A. Mullan: Influence of Southern Oscillation on New Zealand Weather Kenneth S. Gage, Ben Basley, Warner Ecklund, D.A. Carter, and John R. McAfee: Wind Profiler Related Research in the Tropical Pacific	. 659 . 665 . 677
Claire Perigaud: Instability Waves in the Tropical Pacific Observed with GEOSAT Ryuichi Kawamura: Intraseasonal and Interannual Modes of Atmosphere-Ocean System Over the Tropical Western Pacific David Gutzler, and Tamara M. Wood: Observed Structure of Convective Anomalies Siri Jodha Khalsa: Remote Sensing of Atmospheric Thermodynamics in the Tropics Bingrong Xu: Some Features of the Western Tropical Pacific: Surface Wind Field and its Influence on the Upper Ocean Thermal Structure Bret A. Mullan: Influence of Southern Oscillation on New Zealand Weather Kenneth S. Gage, Ben Basley, Warner Ecklund, D.A. Carter, and John R. McAfee: Wind Profiler Related Research in the Tropical Pacific John Joseph Bates: Signature of a West Wind Convective Event in	ES OF ENSO AND SHORT-TERM CLIMATE VARIABILITY nann: Convection and Circulation Anomalies over the ol during 1981-1982 623 Instability Waves in the Tropical Pacific Observed with 637 ra: Intraseasonal and Interannual Modes of Atmosphere-er the Tropical Western Pacific 649 d Tamara M. Wood: Observed Structure of Convective 659 a: Remote Sensing of Atmospheric Thermodynamics in 665 ence on the Upper Ocean Thermal Structure 677 influence of Southern Oscillation on New Zealand 687 Ben Basley, Warner Ecklund, D.A. Carter, and John R. offiler Related Research in the Tropical Pacific 699 s: Signature of a West Wind Convective Event in 669	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northem Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA 561 Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia Solation Roger Lukas: Observations of Air-Sea Interactions in the Western Pacific Warm Pool during WEPOCS M. Nunez, and K. Michael: Satellite Derivation of Ocean-Atmosphere Heat Fluxes in a Tropical Environment EMPIRICAL STUDIES OF ENSO AND SHORT-TERM CLIMATE VARIABILITY Klaus M. Weickmann: Convection and Circulation Anomalies over the Oceanic Warm Pool during 1981-1982 Claire Perigaud: Instability Waves in the Tropical Pacific Observed with GEOSAT Ryuichi Kawamura: Intraseasonal and Interannual Modes of Atmosphere- Ocean System Over the Tropical Western Pacific David Gutzler, and Tamara M. Wood: Observed Structure of Convective Anomalies Siri Jodha Khalsa: Remote Sensing of Atmospheric Thermodynamics in the Tropics Bingrong Xu: Some Features of the Western Tropical Pacific: Surface Wind Field and its Influence on the Upper Ocean Thermal Structure 677 Bret A. Mullan: Influence of Southern Oscillation on New Zealand Weather Kenneth S. Gage, Ben Basley, Warner Ecklund, D.	Siri Jodha Khalsa: Remote Sensing of Atmospheric Thermodynamics in the Tropics Bingrong Xu: Some Features of the Western Tropical Pacific: Surface Wind Field and its Influence on the Upper Ocean Thermal Structure Bret A. Mullan: Influence of Southern Oscillation on New Zealand Weather Kenneth S. Gage, Ben Basley, Warner Ecklund, D.A. Carter, and John R. McAfee: Wind Profiler Related Research in the Tropical Pacific John Joseph Bates: Signature of a West Wind Convective Event in	. 659 . 665 . 677 . 687
Claire Perigaud: Instability Waves in the Tropical Pacific Observed with GEOSAT Ryuichi Kawamura: Intraseasonal and Interannual Modes of Atmosphere-Ocean System Over the Tropical Western Pacific David Gutzler, and Tamara M. Wood: Observed Structure of Convective Anomalies Siri Jodha Khalsa: Remote Sensing of Atmospheric Thermodynamics in the Tropics Bingrong Xu: Some Features of the Western Tropical Pacific: Surface Wind Field and its Influence on the Upper Ocean Thermal Structure Bret A. Mullan: Influence of Southern Oscillation on New Zealand Weather Kenneth S. Gage, Ben Basley, Warner Ecklund, D.A. Carter, and John R. McAfee: Wind Profiler Related Research in the Tropical Pacific John Joseph Bates: Signature of a West Wind Convective Event in SSM/I Data 7	ES OF ENSO AND SHORT-TERM CLIMATE VARIABILITY nann: Convection and Circulation Anomalies over the ol during 1981-1982 623 Instability Waves in the Tropical Pacific Observed with 637 ra: Intraseasonal and Interannual Modes of Atmosphere-er the Tropical Western Pacific 649 d Tamara M. Wood: Observed Structure of Convective 659 a: Remote Sensing of Atmospheric Thermodynamics in 665 ence Features of the Western Tropical Pacific: Surface Wind ence on the Upper Ocean Thermal Structure 677 enfluence of Southern Oscillation on New Zealand 687 Ben Basley, Warner Ecklund, D.A. Carter, and John R. offiler Related Research in the Tropical Pacific 699 s: Signature of a West Wind Convective Event in 711	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northem Australia T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northem Australia T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northem Australia The Holland A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg, J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia Roger Lukas: Observations of Air-Sea Interactions in the Western Pacific Warm Pool during WEPOCS M. Nunez, and K. Michael: Satellite Derivation of Ocean-Atmosphere Heat Fluxes in a Tropical Environment EMPIRICAL STUDIES OF ENSO AND SHORT-TERM CLIMATE VARIABILITY Klaus M. Weickmann: Convection and Circulation Anomalies over the Oceanic Warm Pool during 1981-1982 Claire Perigaud: Instability Waves in the Tropical Pacific Observed with GEOSAT Gay Charley and Tamara M. Wood: Observed Structure of Convective Anomalies Siri Jodha Khalsa: Remote Sensing of Atmospheric Thermodynamics in the Tropics Bingrong Xu: Some Features of the Western Tropical Pacific: Surface Wind Field and its Influence on the Upper Ocean Thermal Structure 679 Bret A.	Siri Jodha Khalsa: Remote Sensing of Atmospheric Thermodynamics in the Tropics Bingrong Xu: Some Features of the Western Tropical Pacific: Surface Wind Field and its Influence on the Upper Ocean Thermal Structure Bret A. Mullan: Influence of Southern Oscillation on New Zealand Weather Kenneth S. Gage, Ben Basley, Warner Ecklund, D.A. Carter, and John R. McAfee: Wind Profiler Related Research in the Tropical Pacific John Joseph Bates: Signature of a West Wind Convective Event in SSM/I Data	. 659 . 665 . 677 . 687
Claire Perigaud: Instability Waves in the Tropical Pacific Observed with GEOSAT Ryuichi Kawamura: Intraseasonal and Interannual Modes of Atmosphere-Ocean System Over the Tropical Western Pacific David Gutzler, and Tamara M. Wood: Observed Structure of Convective Anomalies Siri Jodha Khalsa: Remote Sensing of Atmospheric Thermodynamics in the Tropics Bingrong Xu: Some Features of the Western Tropical Pacific: Surface Wind Field and its Influence on the Upper Ocean Thermal Structure Bret A. Mullan: Influence of Southern Oscillation on New Zealand Weather Kenneth S. Gage, Ben Basley, Warner Ecklund, D.A. Carter, and John R. McAfee: Wind Profiler Related Research in the Tropical Pacific John Joseph Bates: Signature of a West Wind Convective Event in SSM/I Data Tavid S. Gutzler: Seasonal and Interannual Variability of the Madden-	ES OF ENSO AND SHORT-TERM CLIMATE VARIABILITY nann: Convection and Circulation Anomalies over the olduring 1981-1982 623 Instability Waves in the Tropical Pacific Observed with 637 ra: Intraseasonal and Interannual Modes of Atmosphere-er the Tropical Western Pacific 649 d Tamara M. Wood: Observed Structure of Convective 659 a: Remote Sensing of Atmospheric Thermodynamics in 665 a: Remote Sensing of Atmospheric Thermodynamics in 665 a: Remote Southern Oscillation on New Zealand 687 Ben Basley, Warner Ecklund, D.A. Carter, and John R. 659 as: Signature of a West Wind Convective Event in 711 Seasonal and Interannual Variability of the Madden-	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia 549 Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia Roger Lukas: Observations of Air-Sea Interactions in the Western Pacific Warm Pool during WEPOCS M. Nunez, and K. Michael: Satellite Derivation of Ocean-Atmosphere Heat Fluxes in a Tropical Environment EMPIRICAL STUDIES OF ENSO AND SHORT-TERM CLIMATE VARIABILITY Klaus M. Weickmann: Convection and Circulation Anomalies over the Oceanic Warm Pool during 1981-1982 Claire Perigaud: Instability Waves in the Tropical Pacific Observed with GEOSAT Ryuichi Kawamura: Intraseasonal and Interannual Modes of Atmosphere- Ocean System Over the Tropical Western Pacific Bard dutzler, and Tamara M. Wood: Observed Structure of Convective Anomalies Siri Jodha Khalsa: Remote Sensing of Atmospheric Thermodynamics in the Tropics Bingrong Xu: Some Features of the Western Tropical Pacific: Surface Wind Field and its Influence on the Upper Ocean Thermal Structure 677 Bret A. Mullan: Influence of Southern Oscillation on New Zealand Weather Kenneth S. Gage, Ben Basley, Warner Ecklund, D.A. C	Siri Jodha Khalsa: Remote Sensing of Atmospheric Thermodynamics in the Tropics Bingrong Xu: Some Features of the Western Tropical Pacific: Surface Wind Field and its Influence on the Upper Ocean Thermal Structure Bret A. Mullan: Influence of Southern Oscillation on New Zealand Weather Kenneth S. Gage, Ben Basley, Warner Ecklund, D.A. Carter, and John R. McAfee: Wind Profiler Related Research in the Tropical Pacific John Joseph Bates: Signature of a West Wind Convective Event in SSM/I Data David S. Gutzler: Seasonal and Interannual Variability of the Madden-	. 659 . 665 . 677 . 687 . 699
Claire Perigaud: Instability Waves in the Tropical Pacific Observed with GEOSAT Ryuichi Kawamura: Intraseasonal and Interannual Modes of Atmosphere-Ocean System Over the Tropical Western Pacific David Gutzler, and Tamara M. Wood: Observed Structure of Convective Anomalies Siri Jodha Khalsa: Remote Sensing of Atmospheric Thermodynamics in the Tropics Bingrong Xu: Some Features of the Western Tropical Pacific: Surface Wind Field and its Influence on the Upper Ocean Thermal Structure Bret A. Mullan: Influence of Southern Oscillation on New Zealand Weather Kenneth S. Gage, Ben Basley, Warner Ecklund, D.A. Carter, and John R. McAfee: Wind Profiler Related Research in the Tropical Pacific John Joseph Bates: Signature of a West Wind Convective Event in SSM/I Data 7 David S. Gutzler: Seasonal and Interannual Variability of the Madden-Julian Oscillation	ES OF ENSO AND SHORT-TERM CLIMATE VARIABILITY nann: Convection and Circulation Anomalies over the olduring 1981-1982 623 Instability Waves in the Tropical Pacific Observed with 637 ra: Intraseasonal and Interannual Modes of Atmosphere-er the Tropical Western Pacific 649 d Tamara M. Wood: Observed Structure of Convective 659 a: Remote Sensing of Atmospheric Thermodynamics in 665 a: Remote Sensing of Atmospheric Thermodynamics in 665 a: Remote Of Southern Oscillation on New Zealand 687 Ben Basley, Warner Ecklund, D.A. Carter, and John R. offiler Related Research in the Tropical Pacific 699 s: Signature of a West Wind Convective Event in 711 Seasonal and Interannual Variability of the Madden-	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Sichard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Flilip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia Roger Lukas: Observations of Air-Sea Interactions in the Western Pacific Warm Pool during WEPOCS M. Nunez, and K. Michael: Satellite Derivation of Ocean-Atmosphere Heat Fluxes in a Tropical Environment EMPIRICAL STUDIES OF ENSO AND SHORT-TERM CLIMATE VARIABILITY Klaus M. Weickmann: Convection and Circulation Anomalies over the Oceanic Warm Pool during 1981-1982 Claire Perigaud: Instability Waves in the Tropical Pacific Observed with GEOSAT Ryuichi Kawamura: Intraseasonal and Interannual Modes of Atmosphere- Ocean System Over the Tropical Western Pacific David Gutzler, and Tamara M. Wood: Observed Structure of Convective Anomalies Siri Jodha Khalsa: Remote Sensing of Atmospheric Thermodynamics in the Tropics Bingrong Xu: Some Features of the Western Tropical Pacific: Surface Wind Field and its Influence of Southern Oscillation on New Zealand Weather Kenneth S. Gage, Be	Siri Jodha Khalsa: Remote Sensing of Atmospheric Thermodynamics in the Tropics Bingrong Xu: Some Features of the Western Tropical Pacific: Surface Wind Field and its Influence on the Upper Ocean Thermal Structure Bret A. Mullan: Influence of Southern Oscillation on New Zealand Weather Kenneth S. Gage, Ben Basley, Warner Ecklund, D.A. Carter, and John R. McAfee: Wind Profiler Related Research in the Tropical Pacific John Joseph Bates: Signature of a West Wind Convective Event in SSM/I Data David S. Gutzler: Seasonal and Interannual Variability of the Madden-Julian Oscillation	. 659 . 665 . 677 . 687 . 699
Claire Perigaud: Instability Waves in the Tropical Pacific Observed with GEOSAT Ryuichi Kawamura: Intraseasonal and Interannual Modes of Atmosphere-Ocean System Over the Tropical Western Pacific David Gutzler, and Tamara M. Wood: Observed Structure of Convective Anomalies Siri Jodha Khalsa: Remote Sensing of Atmospheric Thermodynamics in the Tropics Bingrong Xu: Some Features of the Western Tropical Pacific: Surface Wind Field and its Influence on the Upper Ocean Thermal Structure Bret A. Mullan: Influence of Southern Oscillation on New Zealand Weather Kenneth S. Gage, Ben Basley, Warner Ecklund, D.A. Carter, and John R. McAfee: Wind Profiler Related Research in the Tropical Pacific John Joseph Bates: Signature of a West Wind Convective Event in SSM/I Data 7 David S. Gutzler: Seasonal and Interannual Variability of the Madden-Julian Oscillation 7 Marie-Hélène Radenac: Fine Structure Variability in the Equatorial Western	ES OF ENSO AND SHORT-TERM CLIMATE VARIABILITY nann: Convection and Circulation Anomalies over the ol during 1981-1982 623 Instability Waves in the Tropical Pacific Observed with 637 ra: Intraseasonal and Interannual Modes of Atmosphere-er the Tropical Western Pacific 649 d Tamara M. Wood: Observed Structure of Convective 659 a: Remote Sensing of Atmospheric Thermodynamics in 665 ane Features of the Western Tropical Pacific: Surface Wind ence on the Upper Ocean Thermal Structure 677 affluence of Southern Oscillation on New Zealand 687 Ben Basley, Warner Ecklund, D.A. Carter, and John R. offiler Related Research in the Tropical Pacific 699 s: Signature of a West Wind Convective Event in 711 Seasonal and Interannual Variability of the Madden-723 denac: Fine Structure Variability in the Equatorial Western	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean S23 Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia 549 Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report S61 Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia Roger Lukas: Observations of Air-Sea Interactions in the Western Pacific Warm Pool during WEPOCS M. Nunez, and K. Michael: Satellite Derivation of Ocean-Atmosphere Heat Fluxes in a Tropical Environment EMPIRICAL STUDIES OF ENSO AND SHORT-TERM CLIMATE VARIABILITY Klaus M. Weickmann: Convection and Circulation Anomalies over the Oceanic Warm Pool during 1981-1982 Claire Perigaud: Instability Waves in the Tropical Pacific Observed with GEOSAT Ryuichi Kawamura: Intraseasonal and Interannual Modes of Atmosphere- Oceanic Warm Pool during Western Pacific David Gutzler, and Tamara M. Wood: Observed Structure of Convective Anomalies Siri Jodha Khalsa: Remote Sensing of Atmospheric Thermodynamics in the Tropics Bingrong Xu: Some Features of the Western Tropical Pacific: Surface Wind Field and its Influence on the Upper Ocean Thermal Structure 679 Bret A. Mullan: Influence of Southern Oscillation on New Zealand Weather Kenneth S. Gage, Ben Basley, Warner Ecklund, D.A. Carter, and	Siri Jodha Khalsa: Remote Sensing of Atmospheric Thermodynamics in the Tropics Bingrong Xu: Some Features of the Western Tropical Pacific: Surface Wind Field and its Influence on the Upper Ocean Thermal Structure Bret A. Mullan: Influence of Southern Oscillation on New Zealand Weather Kenneth S. Gage, Ben Basley, Warner Ecklund, D.A. Carter, and John R. McAfee: Wind Profiler Related Research in the Tropical Pacific John Joseph Bates: Signature of a West Wind Convective Event in SSM/I Data David S. Gutzler: Seasonal and Interannual Variability of the Madden-Julian Oscillation Marie-Hélène Radenac: Fine Structure Variability in the Equatorial Western	. 659 . 665 . 677 . 687 . 699 . 711
Claire Perigaud: Instability Waves in the Tropical Pacific Observed with GEOSAT Ryuichi Kawamura: Intraseasonal and Interannual Modes of Atmosphere-Ocean System Over the Tropical Western Pacific David Gutzler, and Tamara M. Wood: Observed Structure of Convective Anomalies Siri Jodha Khalsa: Remote Sensing of Atmospheric Thermodynamics in the Tropics Bingrong Xu: Some Features of the Western Tropical Pacific: Surface Wind Field and its Influence on the Upper Ocean Thermal Structure Bret A. Mullan: Influence of Southern Oscillation on New Zealand Weather Kenneth S. Gage, Ben Basley, Warner Ecklund, D.A. Carter, and John R. McAfee: Wind Profiler Related Research in the Tropical Pacific John Joseph Bates: Signature of a West Wind Convective Event in SSM/I Data 7 David S. Gutzler: Seasonal and Interannual Variability of the Madden-Julian Oscillation 7 Marie-Hélène Radenac: Fine Structure Variability in the Equatorial Western Pacific Ocean	ES OF ENSO AND SHORT-TERM CLIMATE VARIABILITY nann: Convection and Circulation Anomalies over the ol during 1981-1982 623 Instability Waves in the Tropical Pacific Observed with 637 ra: Intraseasonal and Interannual Modes of Atmosphere-er the Tropical Western Pacific 649 d Tamara M. Wood: Observed Structure of Convective 659 a: Remote Sensing of Atmospheric Thermodynamics in 665 ane Features of the Western Tropical Pacific: Surface Wind ence on the Upper Ocean Thermal Structure 677 affluence of Southern Oscillation on New Zealand 687 Ben Basley, Warner Ecklund, D.A. Carter, and John R. offiler Related Research in the Tropical Pacific 699 s: Signature of a West Wind Convective Event in 711 Seasonal and Interannual Variability of the Madden-723 denac: Fine Structure Variability in the Equatorial Western 735	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean S23 Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems in Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia Sogre Lukas: Observations of Air-Sea Interactions in the Western Pacific Warm Pool during WEPOCS M. Nunez, and K. Michael: Satellite Derivation of Ocean-Atmosphere Heat Fluxes in a Tropical Environment EMPIRICAL STUDIES OF ENSO AND SHORT-TERM CLIMATE VARIABILITY Klaus M. Weickmann: Convection and Circulation Anomalies over the Oceanic Warm Pool during 1981-1982 Claire Perigaud: Instability Waves in the Tropical Pacific Observed with GEOSAT Group of Company of C	Siri Jodha Khalsa: Remote Sensing of Atmospheric Thermodynamics in the Tropics Bingrong Xu: Some Features of the Western Tropical Pacific: Surface Wind Field and its Influence on the Upper Ocean Thermal Structure Bret A. Mullan: Influence of Southern Oscillation on New Zealand Weather Kenneth S. Gage, Ben Basley, Warner Ecklund, D.A. Carter, and John R. McAfee: Wind Profiler Related Research in the Tropical Pacific John Joseph Bates: Signature of a West Wind Convective Event in SSM/I Data David S. Gutzler: Seasonal and Interannual Variability of the Madden-Julian Oscillation Marie-Hélène Radenac: Fine Structure Variability in the Equatorial Western Pacific Ocean	. 659 . 665 . 677 . 687 . 699 . 711
Claire Perigaud: Instability Waves in the Tropical Pacific Observed with GEOSAT 6 Ryuichi Kawamura: Intraseasonal and Interannual Modes of Atmosphere-Ocean System Over the Tropical Western Pacific 6 David Gutzler, and Tamara M. Wood: Observed Structure of Convective Anomalies 6 Siri Jodha Khalsa: Remote Sensing of Atmospheric Thermodynamics in the Tropics 6 Bingrong Xu: Some Features of the Western Tropical Pacific: Surface Wind Field and its Influence on the Upper Ocean Thermal Structure 6 Bret A. Mullan: Influence of Southern Oscillation on New Zealand Weather 6 Kenneth S. Gage, Ben Basley, Warner Ecklund, D.A. Carter, and John R. McAfee: Wind Profiler Related Research in the Tropical Pacific 6 John Joseph Bates: Signature of a West Wind Convective Event in SSM/I Data 7 David S. Gutzler: Seasonal and Interannual Variability of the Madden-Julian Oscillation 7 Marie-Hélène Radenac: Fine Structure Variability in the Equatorial Western Pacific Ocean 7 George C. Reid, Kenneth S. Gage, and John R. McAfee: The Climatology	ES OF ENSO AND SHORT-TERM CLIMATE VARIABILITY mann: Convection and Circulation Anomalies over the olduring 1981-1982 623 Instability Waves in the Tropical Pacific Observed with 637 ra: Intraseasonal and Interannual Modes of Atmosphere-er the Tropical Western Pacific 649 d Tamara M. Wood: Observed Structure of Convective 659 at: Remote Sensing of Atmospheric Thermodynamics in 665 are Features of the Western Tropical Pacific: Surface Wind ence on the Upper Ocean Thermal Structure 677 influence of Southern Oscillation on New Zealand 687 Ben Basley, Warner Ecklund, D.A. Carter, and John R. offiler Related Research in the Tropical Pacific 699 st. Signature of a West Wind Convective Event in 711 Seasonal and Interannual Variability of the Madden-723 denac: Fine Structure Variability in the Equatorial Western 735 Kenneth S. Gage, and John R. McAfee: The Climatology	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Sicheard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia 49 Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA 50 Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report 51 Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia 52 Roger Lukas: Observations of Air-Sea Interactions in the Western Pacific Warm Pool during WEPOCS 53 M. Nunez, and K. Michael: Satellite Derivation of Ocean-Atmosphere Heat Fluxes in a Tropical Environment 54 Phillip A. Arkin: Statellity Waves in the Tropical Pacific Observed with GEOSAT 65 Ryuichi Kawamura: Intraseasonal and Interannual Modes of Atmosphere- Ocean: Warm Pool during 1981-1982 Claire Perigaud: Instability Waves in the Tropical Pacific Observed with GEOSAT Ryuichi Kawamura: Intraseasonal and Interannual Modes of Atmosphere- Ocean System Over the Tropical Western Pacific Apavid Gutzler, and Tamara M. Wood: Observed Structure of Convective Anomalies Siri Jodha Khalsa: Remote Sensing of Atmospheric Thermodynamics in the Tropics 65 Bingrong Xu: Some Features of the Western Tropical Pacific: Surface Wind Field and its Influence on the Upper Ocean Thermal Structure 67 Bret A. Mullan: Influence of Southern Oscillation on New Zealand 68 Weather 68	Siri Jodha Khalsa: Remote Sensing of Atmospheric Thermodynamics in the Tropics Bingrong Xu: Some Features of the Western Tropical Pacific: Surface Wind Field and its Influence on the Upper Ocean Thermal Structure Bret A. Mullan: Influence of Southern Oscillation on New Zealand Weather Kenneth S. Gage, Ben Basley, Warner Ecklund, D.A. Carter, and John R. McAfee: Wind Profiler Related Research in the Tropical Pacific John Joseph Bates: Signature of a West Wind Convective Event in SSM/I Data David S. Gutzler: Seasonal and Interannual Variability of the Madden-Julian Oscillation Marie-Hélène Radenac: Fine Structure Variability in the Equatorial Western Pacific Ocean George C. Reid, Kenneth S. Gage, and John R. McAfee: The Climatology	. 659 . 665 . 677 . 687 . 711 . 723
W D1 1 -' WEDOOD		Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg, J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	RUGER LUKAS: Observations of Air-Sea interactions in the Western Pacific	
		Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg, J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	Roger Lukas: Observations of Air-Sea Interactions in the Western Pacific	
Nogel Dunas. Observations of Autocality actions in the vestern i actic	civations of An-oca interactions in the western i active	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the	Roger Lukas: Observations of Air-Sea Interactions in the Western Pacific	. 371
Roger Lukas: Observations of Air-Sea Interactions in the Western Pacific	servations of Air-Sea Interactions in the Western Pacific	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the	Maritime Continent: Darwin, Australia	. 591
Roger Lukas: Observations of Air-Sea Interactions in the Western Pacific	servations of Air-Sea Interactions in the Western Pacific	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Sichard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report 513 523 524 525 526 526 527 528 529 529 529 529 520 520 520 520		
Maritime Continent: Darwin, Australia 5	at: Darwin, Australia 591 servations of Air-Sea Interactions in the Western Pacific	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South	Great Holland TD Keenen and MI Monton: Observations from the	. 501
Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	T.D. Keenan, and M.J. Manton: Observations from the at: Darwin, Australia 591 servations of Air-Sea Interactions in the Western Pacific	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface		581
Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	T.D. Keenan, and M.J. Manton: Observations from the at: Darwin, Australia 591 servations of Air-Sea Interactions in the Western Pacific	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface	Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South	
Western Tropical Pacific during 1979-85 - A Preliminary Report	Pacific during 1979-85 - A Preliminary Report	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in	I nierry Deicroix, and Christian Henin: Mechanisms of Subsurface	
Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report	and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in	This production of Christian Haring Marketing Code Code	. 3/1
Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report	and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA 513 523 524 525 526 527 528 529 529 529 520 520 520 520 520		571
the Tropical Pacific	and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report 581 T.D. Keenan, and M.J. Manton: Observations from the at: Darwin, Australia 591 Servations of Air-Sea Interactions in the Western Pacific	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia 513 524 525 526 527 528 529 539 540 541 542	Catherine Gautier, and Robert Frouin: Surface Radiation Processes in	
the Tropical Pacific	and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report 581 T.D. Keenan, and M.J. Manton: Observations from the at: Darwin, Australia 591 Servations of Air-Sea Interactions in the Western Pacific	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia 513 524 525 526 527 528 529 539 540 541 542	Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA	. 561
Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific	r, and Robert Frouin: Surface Radiation Processes in c	Sensing of Latent Heat Flux in the Tropical Ocean 513 E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean 523 Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific 535 Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean 543 T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of		
Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	Estimation of Large-Scale Oceanic Rainfall for TOGA r, and Robert Frouin: Surface Radiation Processes in c 571 and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report T.D. Keenan, and M.J. Manton: Observations from the at: Darwin, Australia 591 Servations of Air-Sea Interactions in the Western Pacific	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean 513	TO THE TOTAL AND	- 40
Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	ms In Tropical Northern Australia 549 Estimation of Large-Scale Oceanic Rainfall for TOGA 561 r, and Robert Frouin: Surface Radiation Processes in c 571 and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report 581 T.D. Keenan, and M.J. Manton: Observations from the at: Darwin, Australia 591 servations of Air-Sea Interactions in the Western Pacific	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the	T.D. Kasnen, and Pichard F. Carbone: A Preliminary Morphology of	. 545
T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	Richard E. Carbone: A Preliminary Morphology of ms In Tropical Northern Australia 549 Estimation of Large-Scale Oceanic Rainfall for TOGA 561 r, and Robert Frouin: Surface Radiation Processes in c 571 and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report 581 T.D. Keenan, and M.J. Manton: Observations from the at: Darwin, Australia 591 servations of Air-Sea Interactions in the Western Pacific	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël	Equatorial Pacific Ocean	. 543
Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	Richard E. Carbone: A Preliminary Morphology of ms In Tropical Northern Australia 549 Estimation of Large-Scale Oceanic Rainfall for TOGA 561 r, and Robert Frouin: Surface Radiation Processes in c 571 and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report 581 T.D. Keenan, and M.J. Manton: Observations from the at: Darwin, Australia 591 servations of Air-Sea Interactions in the Western Pacific	Sensing of Latent Heat Flux in the Tropical Ocean 513 E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean 523 Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific 535	Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the	
Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	Richard E. Carbone: A Preliminary Morphology of ms In Tropical Northern Australia 549 Estimation of Large-Scale Oceanic Rainfall for TOGA 561 r, and Robert Frouin: Surface Radiation Processes in c 571 and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report 581 T.D. Keenan, and M.J. Manton: Observations from the at: Darwin, Australia 591 servations of Air-Sea Interactions in the Western Pacific	Sensing of Latent Heat Flux in the Tropical Ocean 513 E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean 523 Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific 535		
Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean 5. T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia 5. Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA 5. Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific 5. Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report 5. Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia 5.	nce of Sea-Surface Temperature on Surface Wind in the Ocean	Sensing of Latent Heat Flux in the Tropical Ocean 513 E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean 523 Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's		. 555
Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean	Michael J. McPhaden, John M. Wallace, and Joël nce of Sea-Surface Temperature on Surface Wind in the Ocean	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean	Operational Surface Fluxes in the Tropical Pacific	535
Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean	Michael J. McPhaden, John M. Wallace, and Joël nce of Sea-Surface Temperature on Surface Wind in the Ocean	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean	Kichard W. Keynolds, and Ants Leetmaa: Evaluation of NMC's	
Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	Michael J. McPhaden, John M. Wallace, and Joël nce of Sea-Surface Temperature on Surface Wind in the Ocean	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements		. 323
Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	olds, and Ants Leetmaa: Evaluation of NMC's e Fluxes in the Tropical Pacific	Sensing of Latent Heat Flux in the Tropical Ocean 513		522
of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	olds, and Ants Leetmaa: Evaluation of NMC's e Fluxes in the Tropical Pacific e Fluxes in the Tropical Pacific Michael J. McPhaden, John M. Wallace, and Joël nce of Sea-Surface Temperature on Surface Wind in the Ocean Stichard E. Carbone: A Preliminary Morphology of ms In Tropical Northern Australia Estimation of Large-Scale Oceanic Rainfall for TOGA r, and Robert Frouin: Surface Radiation Processes in and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report T.D. Keenan, and M.J. Manton: Observations from the at: Darwin, Australia Servations of Air-Sea Interactions in the Western Pacific	Sensing of Latent Heat Flux in the Tropical Ocean 513	of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean	
of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	olds, and Ants Leetmaa: Evaluation of NMC's e Fluxes in the Tropical Pacific Michael J. McPhaden, John M. Wallace, and Joël nce of Sea-Surface Temperature on Surface Wind in the Ocean Stichard E. Carbone: A Preliminary Morphology of ms In Tropical Northern Australia Estimation of Large-Scale Oceanic Rainfall for TOGA To and Robert Frouin: Surface Radiation Processes in and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report T.D. Keenan, and M.J. Manton: Observations from the at: Darwin, Australia Servations of Air-Sea Interactions in the Western Pacific		of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean	
E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	Peter A. Coppin, and John S. Godfrey: Measurements are Fluxes from the Western Tropical Pacific Ocean 523 olds, and Ants Leetmaa: Evaluation of NMC's e Fluxes in the Tropical Pacific 535 Michael J. McPhaden, John M. Wallace, and Joël nce of Sea-Surface Temperature on Surface Wind in the Ocean 543 Richard E. Carbone: A Preliminary Morphology of ms In Tropical Northern Australia 549 Estimation of Large-Scale Oceanic Rainfall for TOGA 561 r, and Robert Frouin: Surface Radiation Processes in and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report 581 T.D. Keenan, and M.J. Manton: Observations from the st: Darwin, Australia 591 Servations of Air-Sea Interactions in the Western Pacific		E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean	
of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	olds, and Ants Leetmaa: Evaluation of NMC's e Fluxes in the Tropical Pacific Michael J. McPhaden, John M. Wallace, and Joël nce of Sea-Surface Temperature on Surface Wind in the Ocean Richard E. Carbone: A Preliminary Morphology of ms In Tropical Northern Australia Estimation of Large-Scale Oceanic Rainfall for TOGA r, and Robert Frouin: Surface Radiation Processes in and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report T.D. Keenan, and M.J. Manton: Observations from the at: Darwin, Australia Servations of Air-Sea Interactions in the Western Pacific		of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean	
of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	olds, and Ants Leetmaa: Evaluation of NMC's e Fluxes in the Tropical Pacific Michael J. McPhaden, John M. Wallace, and Joël nce of Sea-Surface Temperature on Surface Wind in the Ocean Richard E. Carbone: A Preliminary Morphology of ms In Tropical Northern Australia Estimation of Large-Scale Oceanic Rainfall for TOGA r, and Robert Frouin: Surface Radiation Processes in and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report T.D. Keenan, and M.J. Manton: Observations from the at: Darwin, Australia Servations of Air-Sea Interactions in the Western Pacific		of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean	
Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	olds, and Ants Leetmaa: Evaluation of NMC's e Fluxes in the Tropical Pacific 535 Michael J. McPhaden, John M. Wallace, and Joël nce of Sea-Surface Temperature on Surface Wind in the Ocean 543 Richard E. Carbone: A Preliminary Morphology of ms In Tropical Northern Australia 549 Estimation of Large-Scale Oceanic Rainfall for TOGA 561 r, and Robert Frouin: Surface Radiation Processes in c 571 and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report 581 T.D. Keenan, and M.J. Manton: Observations from the at: Darwin, Australia 591 servations of Air-Sea Interactions in the Western Pacific	Sensing of Latent Heat Flux in the Tropical Ocean		522
Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	olds, and Ants Leetmaa: Evaluation of NMC's e Fluxes in the Tropical Pacific 535 Michael J. McPhaden, John M. Wallace, and Joël nce of Sea-Surface Temperature on Surface Wind in the Ocean 543 Richard E. Carbone: A Preliminary Morphology of ms In Tropical Northern Australia 549 Estimation of Large-Scale Oceanic Rainfall for TOGA 561 r, and Robert Frouin: Surface Radiation Processes in c 571 and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report 581 T.D. Keenan, and M.J. Manton: Observations from the at: Darwin, Australia 591 servations of Air-Sea Interactions in the Western Pacific	Sensing of Latent Heat Flux in the Tropical Ocean		
of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	olds, and Ants Leetmaa: Evaluation of NMC's e Fluxes in the Tropical Pacific Michael J. McPhaden, John M. Wallace, and Joël nce of Sea-Surface Temperature on Surface Wind in the Ocean Richard E. Carbone: A Preliminary Morphology of ms In Tropical Northern Australia Estimation of Large-Scale Oceanic Rainfall for TOGA r, and Robert Frouin: Surface Radiation Processes in and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report T.D. Keenan, and M.J. Manton: Observations from the at: Darwin, Australia Servations of Air-Sea Interactions in the Western Pacific		of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean	
E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	Peter A. Coppin, and John S. Godfrey: Measurements are Fluxes from the Western Tropical Pacific Ocean 523 olds, and Ants Leetmaa: Evaluation of NMC's e Fluxes in the Tropical Pacific 535 Michael J. McPhaden, John M. Wallace, and Joël nce of Sea-Surface Temperature on Surface Wind in the Ocean 543 Richard E. Carbone: A Preliminary Morphology of ms In Tropical Northern Australia 549 Estimation of Large-Scale Oceanic Rainfall for TOGA 561 r, and Robert Frouin: Surface Radiation Processes in and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report 581 T.D. Keenan, and M.J. Manton: Observations from the st: Darwin, Australia 591 Servations of Air-Sea Interactions in the Western Pacific		E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean	. 515
E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	Peter A. Coppin, and John S. Godfrey: Measurements are Fluxes from the Western Tropical Pacific Ocean 523 olds, and Ants Leetmaa: Evaluation of NMC's e Fluxes in the Tropical Pacific 535 Michael J. McPhaden, John M. Wallace, and Joël nce of Sea-Surface Temperature on Surface Wind in the Ocean 543 Richard E. Carbone: A Preliminary Morphology of ms In Tropical Northern Australia 549 Estimation of Large-Scale Oceanic Rainfall for TOGA 561 r, and Robert Frouin: Surface Radiation Processes in and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report 581 T.D. Keenan, and M.J. Manton: Observations from the st: Darwin, Australia 591 Servations of Air-Sea Interactions in the Western Pacific		E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean	. J13
of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	olds, and Ants Leetmaa: Evaluation of NMC's e Fluxes in the Tropical Pacific Michael J. McPhaden, John M. Wallace, and Joël nce of Sea-Surface Temperature on Surface Wind in the Ocean Richard E. Carbone: A Preliminary Morphology of ms In Tropical Northern Australia Estimation of Large-Scale Oceanic Rainfall for TOGA r, and Robert Frouin: Surface Radiation Processes in and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report T.D. Keenan, and M.J. Manton: Observations from the at: Darwin, Australia Servations of Air-Sea Interactions in the Western Pacific	Sensing of Latent Heat Flux in the Tropical Ocean 513	of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean	
Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	olds, and Ants Leetmaa: Evaluation of NMC's e Fluxes in the Tropical Pacific 535 Michael J. McPhaden, John M. Wallace, and Joël nce of Sea-Surface Temperature on Surface Wind in the Ocean 543 Richard E. Carbone: A Preliminary Morphology of ms In Tropical Northern Australia 549 Estimation of Large-Scale Oceanic Rainfall for TOGA 561 r, and Robert Frouin: Surface Radiation Processes in c 571 and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report 581 T.D. Keenan, and M.J. Manton: Observations from the at: Darwin, Australia 591 Servations of Air-Sea Interactions in the Western Pacific	Sensing of Latent Heat Flux in the Tropical Ocean		
of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	olds, and Ants Leetmaa: Evaluation of NMC's e Fluxes in the Tropical Pacific Michael J. McPhaden, John M. Wallace, and Joël nce of Sea-Surface Temperature on Surface Wind in the Ocean Richard E. Carbone: A Preliminary Morphology of ms In Tropical Northern Australia Estimation of Large-Scale Oceanic Rainfall for TOGA r, and Robert Frouin: Surface Radiation Processes in and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report T.D. Keenan, and M.J. Manton: Observations from the at: Darwin, Australia Servations of Air-Sea Interactions in the Western Pacific	Sensing of Latent Heat Flux in the Tropical Ocean	of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean	
Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	olds, and Ants Leetmaa: Evaluation of NMC's e Fluxes in the Tropical Pacific 535 Michael J. McPhaden, John M. Wallace, and Joël nce of Sea-Surface Temperature on Surface Wind in the Ocean 543 Richard E. Carbone: A Preliminary Morphology of ms In Tropical Northern Australia 549 Estimation of Large-Scale Oceanic Rainfall for TOGA 561 r, and Robert Frouin: Surface Radiation Processes in c 571 and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report 581 T.D. Keenan, and M.J. Manton: Observations from the at: Darwin, Australia 591 Servations of Air-Sea Interactions in the Western Pacific	Sensing of Latent Heat Flux in the Tropical Ocean 513		
Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	olds, and Ants Leetmaa: Evaluation of NMC's e Fluxes in the Tropical Pacific 535 Michael J. McPhaden, John M. Wallace, and Joël nce of Sea-Surface Temperature on Surface Wind in the Ocean 543 Richard E. Carbone: A Preliminary Morphology of ms In Tropical Northern Australia 549 Estimation of Large-Scale Oceanic Rainfall for TOGA 561 r, and Robert Frouin: Surface Radiation Processes in c 571 and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report 581 T.D. Keenan, and M.J. Manton: Observations from the at: Darwin, Australia 591 Servations of Air-Sea Interactions in the Western Pacific	Sensing of Latent Heat Flux in the Tropical Ocean 513		
Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	olds, and Ants Leetmaa: Evaluation of NMC's e Fluxes in the Tropical Pacific 535 Michael J. McPhaden, John M. Wallace, and Joël nce of Sea-Surface Temperature on Surface Wind in the Ocean 543 Richard E. Carbone: A Preliminary Morphology of ms In Tropical Northern Australia 549 Estimation of Large-Scale Oceanic Rainfall for TOGA 561 r, and Robert Frouin: Surface Radiation Processes in c 571 and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report 581 T.D. Keenan, and M.J. Manton: Observations from the at: Darwin, Australia 591 servations of Air-Sea Interactions in the Western Pacific	Sensing of Latent Heat Flux in the Tropical Ocean		500
Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	olds, and Ants Leetmaa: Evaluation of NMC's e Fluxes in the Tropical Pacific 535 Michael J. McPhaden, John M. Wallace, and Joël nce of Sea-Surface Temperature on Surface Wind in the Ocean 543 Richard E. Carbone: A Preliminary Morphology of ms In Tropical Northern Australia 549 Estimation of Large-Scale Oceanic Rainfall for TOGA 561 r, and Robert Frouin: Surface Radiation Processes in c 571 and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report 581 T.D. Keenan, and M.J. Manton: Observations from the at: Darwin, Australia 591 servations of Air-Sea Interactions in the Western Pacific	Sensing of Latent Heat Flux in the Tropical Ocean		523
Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	olds, and Ants Leetmaa: Evaluation of NMC's e Fluxes in the Tropical Pacific 535 Michael J. McPhaden, John M. Wallace, and Joël nce of Sea-Surface Temperature on Surface Wind in the Ocean 543 Richard E. Carbone: A Preliminary Morphology of ms In Tropical Northern Australia 549 Estimation of Large-Scale Oceanic Rainfall for TOGA 561 r, and Robert Frouin: Surface Radiation Processes in c 571 and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report 581 T.D. Keenan, and M.J. Manton: Observations from the at: Darwin, Australia 591 servations of Air-Sea Interactions in the Western Pacific	Sensing of Latent Heat Flux in the Tropical Ocean		500
Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	olds, and Ants Leetmaa: Evaluation of NMC's e Fluxes in the Tropical Pacific 535 Michael J. McPhaden, John M. Wallace, and Joël nce of Sea-Surface Temperature on Surface Wind in the Ocean 543 Richard E. Carbone: A Preliminary Morphology of ms In Tropical Northern Australia 549 Estimation of Large-Scale Oceanic Rainfall for TOGA 561 r, and Robert Frouin: Surface Radiation Processes in c 571 and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report 581 T.D. Keenan, and M.J. Manton: Observations from the at: Darwin, Australia 591 servations of Air-Sea Interactions in the Western Pacific	Sensing of Latent Heat Flux in the Tropical Ocean		
of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	olds, and Ants Leetmaa: Evaluation of NMC's e Fluxes in the Tropical Pacific Michael J. McPhaden, John M. Wallace, and Joël nce of Sea-Surface Temperature on Surface Wind in the Ocean Richard E. Carbone: A Preliminary Morphology of ms In Tropical Northern Australia Estimation of Large-Scale Oceanic Rainfall for TOGA r, and Robert Frouin: Surface Radiation Processes in and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report T.D. Keenan, and M.J. Manton: Observations from the at: Darwin, Australia Servations of Air-Sea Interactions in the Western Pacific		of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean	
of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	olds, and Ants Leetmaa: Evaluation of NMC's e Fluxes in the Tropical Pacific Michael J. McPhaden, John M. Wallace, and Joël nce of Sea-Surface Temperature on Surface Wind in the Ocean Stichard E. Carbone: A Preliminary Morphology of ms In Tropical Northern Australia Estimation of Large-Scale Oceanic Rainfall for TOGA To and Robert Frouin: Surface Radiation Processes in and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report T.D. Keenan, and M.J. Manton: Observations from the at: Darwin, Australia Servations of Air-Sea Interactions in the Western Pacific		of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean	
E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	Peter A. Coppin, and John S. Godfrey: Measurements are Fluxes from the Western Tropical Pacific Ocean 523 olds, and Ants Leetmaa: Evaluation of NMC's e Fluxes in the Tropical Pacific 535 Michael J. McPhaden, John M. Wallace, and Joël nce of Sea-Surface Temperature on Surface Wind in the Ocean 543 Richard E. Carbone: A Preliminary Morphology of ms In Tropical Northern Australia 549 Estimation of Large-Scale Oceanic Rainfall for TOGA 561 r, and Robert Frouin: Surface Radiation Processes in and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report 581 T.D. Keenan, and M.J. Manton: Observations from the st: Darwin, Australia 591 Servations of Air-Sea Interactions in the Western Pacific		E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean	. 313
of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	olds, and Ants Leetmaa: Evaluation of NMC's e Fluxes in the Tropical Pacific Michael J. McPhaden, John M. Wallace, and Joël nce of Sea-Surface Temperature on Surface Wind in the Ocean Richard E. Carbone: A Preliminary Morphology of ms In Tropical Northern Australia Estimation of Large-Scale Oceanic Rainfall for TOGA r, and Robert Frouin: Surface Radiation Processes in and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report T.D. Keenan, and M.J. Manton: Observations from the at: Darwin, Australia Servations of Air-Sea Interactions in the Western Pacific		of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean	
E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	Peter A. Coppin, and John S. Godfrey: Measurements are Fluxes from the Western Tropical Pacific Ocean 523 olds, and Ants Leetmaa: Evaluation of NMC's e Fluxes in the Tropical Pacific 535 Michael J. McPhaden, John M. Wallace, and Joël nce of Sea-Surface Temperature on Surface Wind in the Ocean 543 Richard E. Carbone: A Preliminary Morphology of ms In Tropical Northern Australia 549 Estimation of Large-Scale Oceanic Rainfall for TOGA 561 r, and Robert Frouin: Surface Radiation Processes in and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report 581 T.D. Keenan, and M.J. Manton: Observations from the st: Darwin, Australia 591 Servations of Air-Sea Interactions in the Western Pacific		E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean	
E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	Peter A. Coppin, and John S. Godfrey: Measurements are Fluxes from the Western Tropical Pacific Ocean 523 olds, and Ants Leetmaa: Evaluation of NMC's e Fluxes in the Tropical Pacific 535 Michael J. McPhaden, John M. Wallace, and Joël nce of Sea-Surface Temperature on Surface Wind in the Ocean 543 Richard E. Carbone: A Preliminary Morphology of ms In Tropical Northern Australia 549 Estimation of Large-Scale Oceanic Rainfall for TOGA 561 r, and Robert Frouin: Surface Radiation Processes in and Christian Henin: Mechanisms of Subsurface and Sea Surface Thermo-Haline Variabilities in the South Pacific during 1979-85 - A Preliminary Report 581 T.D. Keenan, and M.J. Manton: Observations from the st: Darwin, Australia 591 Servations of Air-Sea Interactions in the Western Pacific	77. I IIIQUIT DIG. 7 III O 7 CI 7 ICW OI DUIR I MIGHICULDUIQUI MIG IQUIQU	E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean	. 313
E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean Richard W. Reynolds, and Ants Leetmaa: Evaluation of NMC's Operational Surface Fluxes in the Tropical Pacific Stanley P. Hayes, Michael J. McPhaden, John M. Wallace, and Joël Picaut: The Influence of Sea-Surface Temperature on Surface Wind in the Equatorial Pacific Ocean T.D. Keenan, and Richard E. Carbone: A Preliminary Morphology of Precipitation Systems In Tropical Northern Australia Phillip A. Arkin: Estimation of Large-Scale Oceanic Rainfall for TOGA Catherine Gautier, and Robert Frouin: Surface Radiation Processes in the Tropical Pacific Thierry Delcroix, and Christian Henin: Mechanisms of Subsurface Thermal Structure and Sea Surface Thermo-Haline Variabilities in the South Western Tropical Pacific during 1979-85 - A Preliminary Report Greg. J. Holland, T.D. Keenan, and M.J. Manton: Observations from the Maritime Continent: Darwin, Australia	Heat Flux in the Tropical Ocean Peter A. Coppin, and John S. Godfrey: Measurements Fluxes from the Western Tropical Pacific Ocean Olds, and Ants Leetmaa: Evaluation of NMC's Fluxes in the Tropical Pacific Fluxes in the South Fluxes in the Tropical Pacific Fluxes in the South Fluxes i	M/ Timesther Line As Chrosniger of Dulle Domonation and Domoto	Sensing of Latent Heat Flux in the Tropical Ocean E. Frank Bradley, Peter A. Coppin, and John S. Godfrey: Measurements of Heat and Moisture Fluxes from the Western Tropical Pacific Ocean	. 513

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Chung-Hsiung Sui, and Ka-Ming Lau: Multi-Scale Processes in the Equatorial Western Pacific Stephen E. Zebiak: Diagnostic Studies of Pacific Surface Winds	747 757
MISCELLANEOUS	
Rick J. Bailey, Helene E. Phillips, and Gary Meyers: Relevance to TOGA	
of Systematic XBT Errors	775
Jean Blanchot, Robert Le Borgne, Aubert Le Bouteiller, and Martine	
Rodier: ENSO Events and Consequences on Nutrient, Planktonic Biomass,	705
and Production in the Western Tropical Pacific Ocean	785
Yves Dandonneau: Abnormal Bloom of Phytoplankton around 10°N in the	=0.4
Western Pacific during the 1982-83 ENSO	791
Cécile Dupouy: Sea Surface Chlorophyll Concentration in the South Western	
Tropical Pacific, as seen from NIMBUS Coastal Zone Color Scanner from	
1979 to 1984 (New Caledonia and Vanuatu)	803
Michael Szabados, and Darren Wright: Field Evaluation	
of Real-Time XBT Systems	811
Pierre Rual: For a Better XBT Bathy-Message: Onboard Quality Control,	
plus a New Data Reduction Method	823