

SÄCHSISCHE AKADEMIE DER WISSENSCHAFTEN ZU LEIPZIG


POGGENDORFF-REDAKTION

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J. C. Poggendorff, founder of the Reference Books of the Exact Sciences, wanted to give, in his work, "information on the lives and achievements of mathematicians, astronomers, physicists, chemists, mineralogists, and geologists of all nations and of all times", by publishing the most important details of the lives of these scientists with their complete scientific works, in concise bibliographies. This idea of the founder of these publications has never been carried out with such catholic intent in any other German or foreign work of reference.

Volumes 1 to 7 which have been published since 1858 are now to be followed by volume 8 which is intended to be a supplementary volume supplying additional information and partially completing the bio-bibliographies started in earlier volumes. Although our editorial staff have collected an extensive amount of material about the scientists concerned we would very much like to have more detailed information from their relatives, students and ~~successors or from archives in their former places of work.~~ We would therefore appreciate it very much if you could help us ~~by carefully correcting and supplementing our draft manuscript,~~ thus contributing to the successful completion of a publication which is designed as a tribute to these eminent scientists and their achievements.

Poggendorff-Redaktion
der Sächsischen Akademie der Wissenschaften
zu Leipzig


(Dipl.-Chem. M. Köstler)

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Prof. Dr. H. Lettau
1551 Ben Sawyer Blvd.
Mt. Pleasant, SC 29464
USA

Herrn
Prof. Dr. H. Lettau
1551 Ben Sawyer Blvd. 6A
Mount Pleasant 29464

Leipzig, 2000-07-12

Leipzig, den 30. August 2000

Dear Professor Lettau,

Sehr geehrter Herr Professor Lettau,

in volume VIII of our scientific handbook we intend to complete your biobibliography started in volume VIIa.
For preparing the manuscript we need a list of your publications (from 1956 onward), biographical details such as honorary degrees, medals etc., and citations or copies of biographical articles published f.i. on the occasion of a birthday.

haben Sie besten Dank für Ihren freundlichen Brief vom 21. August und für die sorgfältigen "poggendorffgerechten" Ergänzungen zu Ihrer Biobibliographie. Damit haben Sie unserem kleinen Redaktionsteam (5 Damen), das unter enormen Zeitdruck steht, sehr geholfen.

If you worked as editor or coeditor of journals, serials or monographies please give us the title(s) and the year(s).

Für den Band VIII sind in relativ kurzer Zeit für etwa 7000 Gelehrte die Biobibliographien zu erarbeiten. Zur Zeit sind wir noch mit der vorbereitenden Materialsammlung beschäftigt und werden zu gegebener Zeit bei der Endredaktion gern Ihr freundliches Angebot annehmen, falls es nötig sein sollte, unsere Fragen zu beantworten.

Furthermore we want the following biographical data:

1949-58 Lecturer of Meteorology, Institute of Technology, Cambridge, MA; 1957 or 58?-19___? ord. Prof., University of Wisconsin, Madison, WI.

For your information we inclosed the copy of the volume VIIa.

Mit besten Wünschen, auch an Ihre Gattin

We would appreciate it very much if you could support a comprehensive appraisal of your scientific biography and work in our handbook by supplying us with the material mentioned above.

Thure Margot Köster

Yours sincerely

M. Köster
Dipl.-Chem. Margot Köster
(Ltr. d. Poggendorff-Red.)

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LETTAU

November 04 ,1909

Professor [Meteorol.& Geophys.]

1:Bernhard; 2:Ulrich; 3:Ludwig

Heinz Helmut Max

Königsberg East Prussia [now:Kaliningrad]

Katharina Dörffel [Dr.phil.,U. Leipzig 1935]

no daughters

Highschool Diploma: Ob.Real School "Auf der Burg", Königsberg, 1928 -- Student [Geophys., Meteorol., Physics, Math.] 1928 to '31 at: U. Königsberg, U. Frankfurt/Main, & U. Leipzig -- Dr.phil. [Meteorol. & Geophys.] U. Leipzig, 1931 --Dr. phil. habil. [Meteorol. & Geophys.]U. Leipzig, 1936

Res.-Assist. Geodetic Instit., Potsdam, 1931 to '33 -- University Assist. U. Leipzig, 1933 to '38

-- Dozent [Geophys.] U. Königsberg, 1938 to '43 -- ao Professor U. Graz, Austria, 1943 to '45 --

Manager of Res. Div., German Weather Service in the US Zone, Bad Kissingen, 1946 to '47 -- Manager of Res., US AF

Geophys. Res. Direct; Lect.[Meteorol.] Mass. Inst. Technol., both ,Cambridge, MS 1947 to '58 -- Prof. of Meteorol. &

Civil Engineer., U. Wisconsin at Madison, 1958 to '80 -- Increase A. Lapham Professor emeritus, 1980 - present

Honours and Awards: A.Lapham Prof. [U.Wisconsin], 1971-- C.-G. Rossby Res. Medal [Am. Meteor. Soc.], 1974--

Humboldt Forsch.Preis [A.v.Humboldt Stift.,Bonn, Germ.], 1974 - Alfred Wegener Medal [Gem.Meteor. Soc.], 1974

Publications/Articles: About 190 papers as listed in Poggendorf Ann. [U.Leipzig] Vol.VII before 1956, and Vol. VIII up

to 1992. Grouped by three *backgrounds* : 1. *Research ascents by manned balloon* to study turbulence and eddy

diffusion in the lower troposphere, yielding 1 book, "Atmosph. Turbulenz", 1938, and 1 anthology, 'Exploring the

Atmosphere's First Mile', [1933-'57] -- 2 *Invention of the Horizontal-Double Pendulum* : yielding recordings of the effect

of tidal forces, snowpack, and atmosph. pressure on the Earth's Crust; [1936-'52] -- 3. *Field studies of the Climate near*

the Ground : resulting in 'Climatology', also experiments on lake-ice surface-modification effects, research of

Antarctica's Atmospheric Boundary Layer, and 1 anthology: 'Exploring the World's driest Climate; [1931 - '92].

Memberships : Germ Academy. Aviation Res., 1944 -- Wisconsin Academy Science & Letters, 1962 -- Bayrische

Akademie der Wissenschaften, 1970

Full Address : 1551 Ben Sawyer Blvd.6A, Mt. Pleasant, SC 29464-5510, USA --

Phone : (843) 849 8852

Edit.Offices, Internat. Biograph. Centre.

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Ely, Cabridgeshire , CB7 4GG, England

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Dipl.-Chem. Margot Köstler

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c/o Sächsische Akademie der Wissenschaften zu Leipzig

Poggendorf Redaktion; Beethovenstrasse 6 - D - 04107 Leipzig



Sehr geehrte Frau Köstler, mit Ihrer Sendung vom 12. Juli, d.J. haben Sie mir als alten Emigranten eine unerwartete Freude bereitet. Man hat mich also in Leipzig nicht vergessen. Ich hoffe dass die beiliegenden neun Seiten alles enthalten was für Band VIII benötigt wird. Falls nicht, lassen Sie mich wissen was ich zusätzlich tun kann.

In Ihrem Schreiben wünschen Sie um eine Klärung von zwei Daten. Nun, die MIT Bestallung war ohne Salär. Ich hielt mit Einwilligung meiner USAF-Dienststelle jedes Jahr eine Vorlesung um mit den USA Hochschul-Traditionen vertraut zu werden. Die Bestallung als 'lecturer' war jeweils für ein Jahr und wurde zuletzt 1957 erneuert. An der *University of Wisconsin* lehrte ich als *Visiting Professor* im Frühjahrs Semester 1957. Meine Bestallung als Professor [joint appointment at the Departments of Meteorology and Civil Engineering] began Februar 1958.

Um zu verstehen warum ich auf Seite 1 den ehrenwerten 'Landeshauptmann Steiermark' erwähne, verweise ich auf die Verleihung der A.W- Medaille [1974]. Zusätzlich möchte ich bemerken dass meine protestantischen Vorfahren auf der Mutterseite 1739 vom Erzbischof von Salzburg aus Österreich ausgewiesen wurden; meine Vorfahren auf der Vaterseite wurden 1685 als Hugenotten aus Frankreich vertrieben. Mein baltisches Heimatland wurde 1945-47 durch Stalins Kommissare von allen Bewohnern "gesäubert". Der Landeshauptmann Steiermark hat also einige Vorläufer.

Well, life in the New World is still enjoyably peaceful.

Cordially Yours

Leitau, Heinz Helmut Max. Geophysik, Meteorol. — 1928—30 stud. U Königsberg/Pr., Frankfurt/M., Leipzig; '31 Dr. phil. (L. Weickmann, '33 dess. Ass.), '36 habil. U Leipzig; '38 Doz. Geophysik U Königsberg/Pr.; '43 ao. Prof. U Graz; '46 Abt.-Leiter Wetterdienst Bad Kissingen; '47 Research Meteorologist US Airforce Cambridge/Mass.; seit '49 Lecturer of Meteorology Inst. of Technology, Cambridge/Mass., USA. [Eig. Mitt.]
*1909, Nov. 4, Königsberg/Pr.

Note: Der "Landeshauptmann Steiermark" verfügte im Sep. '45 die Widerrufung meiner Berufung als Nachfolger von Alfred Wegener (und K. Wegener)

1949- 58 Lecturer of Meteorology, Mass. Inst. of Technology;

1958 -80 Prof. Meteorol. & Civil Engineering, University of Wisconsin, Madison WI

1980 - *Emeritus Professor*

Ehrungen

1942 Korresp. Mitglied Deutsche Akad. der Luftfahrtforschung [aufgelöst 1945]

1970 Korresp. Mitglied Bayerische Akad der Wissenschaften;

1971 Increase A. Lapham Professor, University of Wisconsin, Madison

1974 The Carl-Gustaf Rossby Research Medal, The American Meteorological Society

1974 Humboldt Preis, Alexander von Humboldt Stiftung, Bonn

1974 Die Alfred-Wegener Medaille, Verband Deutscher Meteorolog. Gesellschaften

Zeitweilige Berufungen [as Visiting Professor or advising Senior Scientist]

1957 Spring Semester, University of Wisconsin, Madison

1962/63 Winter Semester, Universität Hamburg

1971 Jul/Aug Universität Hamburg

1974/75 Winter Semester, Universität, Bonn, Stipend. d. A.v. Humboldt Stiftung

1975, Ja/Ma WMO [World Meteorol. Organization] Assignment, Cairo, Egypt

1975, Jul/Au, Stanford Internat. Research Institute, Menlo Park, California

1979, Jul/Au IMPE, San Jose dos Campos, Brazil

1980, Mar. Simon Bolivar Universidad, Caracas, Venezuela

1981, Ja/Fe University of Mexico City, Mexico

1982, Jul/Au Utah State College, Logan Utah

Erl. Horizontal-Doppel-Pandel.
HZ. Gerlands Beitr. Geophysik 56 ('38) - 60 ('44).

S. • Klima-Wetter-Mensch (H. Woltareck) (Lpz. '38) 6-126: Grundlagen d. Klima- u. Wetterkde (m. R. Penndorf, L. Weickmann). — • Nat. u. Med. Dtschl. 1939-46, 19 (Wiesb. '48) 115-73: Dyn. d. Atmosph. — • Compendium of Meteorol. (Boston '51) 312-20: Diffus. in the upper atmosph. — • Zahlenwerte u. Funkt. (Landolt-Börnstein) 3 (Bin.-G.-H. '52) 898-95: Gezeiten d. Erdkörpers; 666-74: Austausch. — • Air Force Surveys in Geophysics 1954, Nr. 68: Review of time and space wind fluctuat. applicable to conventional ballistic determinat. (m. W. Baginsky, N. Sissenwine, B. Davidson).

- Atmospheric Diffusion and Air Pollution [F.N. Frenkiel & P.A. Sheppard] [Academ. Press, New York, 1959] 241-256: Wind profile, surface stress and geostrophic drag coefficients in the atmospheric surface layer
- Encyclopedia of Science and Technology [McGraw-Hill Book Company, New York, 1960, 1968]: 1 page on: Micrometeorology
- Handbuch der Aerologie [W. Hesse] [Academische Verlagsgesellschaft, Leipzig, 1961] 622-646: Turbulenz und Fugunruhe
- Collection and Processing of Field data [E.F. Bradley and O.T. Denmead] [Wiley & Sons, 1967], 1 - 40: Problems of micrometeorological measurements and degree of control in out-of-doors experiments.
- Symposium on Mountain Meteorology [E. Reiter] [Colorado State University, Ft. Collins, CO; Res Paper 122] 3 - 74: Small to large-scale features of boundary-layer structure over mountain slopes.
- Research in the Antarctic [L. Quom] [Amer. Association for the Advancement of Scienc; AAAS Publication No.93, 1971], 443 - 474: Antarctic atmosphere as a test tube for meteorological theories
- Phenology and Seasonality Modeling [H. Lieth] [Ecological studies Vol 8, J. Springer, New York, Heidelberg, 1974] 343 - 352: Modeling the annual cycle of soil moistur; evapotranspiration climatonomy of drainless areas [Mit K. Lettau]
- Climate of the Arctic [G. Weller and S. Bowling] [University of Alaska Press, Fairbanks, Alaska, 1975] 209-221: Regional climatonomy of tundra and boreal forest in Canada; m. K. Lettau

• World Survey of Climate [H. Landsberg] [Elsevier Pub. Vol 12, 1976, Climates of Central and South America] 188-192: Dynamic and energetic factors which cause and limit aridity along South America's Pacific coast

• Exploring the World's driest Climate [H. Lettau and K. Lettau] [University of Wisconsin, Institute for Environmental studies, IES Report 101, 1978] 12 -28: The field expedition to the Pampa de La Joya; 57 - 62: Shading experiments on the desert floor; 110 - 146: Experimental and micrometeorological field studies of dune migration [mit K. Lettau]; 163 - 181: Characteristic winds and boundary-layer meteorology of the arid zones in Peru and Chile [mit José Rutlant-Costa; 182-284: Explaining the world's driest climate

• International Symposium in Memory of F. Sauberer [I. Dirmhirn][Universität f. Bodenkultur, Wien, 1984] 21-28: The Sauberer-Mahringer soilheat diffusion experiment: A re-analysis using force-response modeling equations.

W. • Atmosphärische Turbulenz (Lpz. '39) |
11 + 283 S.

• Exploring the Atmosphere's First Mile - Project Great Plains- Vol. I & II [Pergamon Press , New York, London, Paris, 1957] 578 pp--m. B. Davidson

Ann. Hydrogr. Seiches d. Frischen Meeres: 60 ('32) 229-40. — Stehende Wellen als Ursache un-

wähle Probl. b. stehenden Wellen in Seen: 62 ('34) 19-20. — Atmosphär. Zirkulat. auf d. nördl. Halbkugel im Lichte d. Turbulenzvorstellungen: 252-56. — Turbulente Schwankungen v. Wind u. Temp. in d. bodennahen Luftschicht: 469-73. — Zu Refsdals Erklärg. d. halbtäg. Luftdruckwelle: 63 ('35) 350f. — Wasserdampfübergang v. einer nassen Platte auf strömende Luft (18) 64 ('36) 342-52, 504-10. — O. G. Suttons Theor. d. Verdunstg. in turbulenter Luft im Vergl. zu neueren Beob.: 65 ('37) 155-60. — Vers. einer Bilanz im Kondensationshaushalt d. Troposphäre im Durchschnitt f. d. ganze Erdoberfläche: 67 ('39) 551-59. — Wärmeaustausch-Paradoxon v. W. Schmidt: 69 ('41) 400-03.

1a) mit K. Dörrfel

Note: K. D., seit 1937 :

K. Lettau, erscheint später sehr oft als Mitarbeiter

Annalen der Meteorologie [N.F.]

9, 1973, 9 -14: Anthropogene Beeinflussung von Klima und Witterung

Annals of Geomorphology

13, 182 - 195: Bulk transport of sand by the barchans of the Pampa de La Joya in southern Peru [Mit K. Lettau]

Antarctic Journal

12, 1977, 134 - 136: Thermal response to albedo reduction on Antarctic snow-modeling results

12, 1977, 155-158: Dynamics of the surface-wind regime over the interior of Antarctica [Mit W. Schwerdtfeger]

Antarctic Research Series [American Geophys. Union]

9, '66, 1 - 12: A case study of katabatic flow on the south polar plateau;

9, '66, 13 - 57: South Pole micrometeorology program [m. P. Dalrymple and S. Wollaston].

25, '77, 77- 91: Air temperature and two-dimensional wind profiles in the lowest 32 m as function of bulk stability at Plateau Station [Mit A. Riordan and M. Kuhn].

25, '77, 93 - 111: Stability related wind spiraling in the lowest 32 m above Plateau Station [Mit M. Kuhn and A. Riordan]

Arch. Meteorol., Geophysik, Bioklimatol. (A).
Study of the mass, momentum and energy budget
of the atmosphere: 7 ('54) 133-57.

14, '64, 218 - 212: A meteorological study of dry-fallout of radioactive debris [Mit K. Lettau]

Bayrisches Landwirtschaftliches Jahrbuch 1990, Sonderheft 1

131-137: Über die 'anomale' Abnahme des Verhältnisses von Abfluss zu Niederschlag mit zunehmender Entwaldung in Panama

Beitr. Physik freien Atmosph. Luftmassen u.
Energieaustausch zw. niederen u. hohen Breiten
d. Nordhalbkugel während d. Polarjahres
1982/88: 23 ('85) 45-84.

29, 1956, 197 - 122: Theoretical notes on the dynamics of the equatorial atmosphere

30, 1957, 78 96: Windprofil, innere Reibung, und Energieumsatz in den unteren 500m über dem Meer

35, '62, 195-212: Theoretical wind spirals in the boundary-layer of a barotropic atmosphere

37, '64, 105 - 118: Über die Bestimmung der Höhenverteilung von Schubspannung und Austausch in der atmosphärischen Reibungsschicht [Mit *H. Hoerber*]

Ber. Dtsch. Wetterdienst US-Zone. Synthet. Klimatol.: Nr. 38 ('52) 127-36.

Ber. Sächs. Akad. Wiss. Ber. üb. d. Dozenten-Afrikareise 1938: 91 ('39) 119-34.

Boundary-Layer Meteorology.

1 '70, 64-69 : Variangular wind spirals [Mit *W. Dabberdt*]-

6, '74, 13-33 : Semi-diurnal wind variation in the friction layer above the tropical ocean

12, '77, 213-229: Climatonomical modeling of temperature response to dust contamination of Antarctic snow surfaces;

17, '79, 443-464: Wind and temperature profile prediction for diabatic surface layers including strong inversion cases ;

23, '79, 265 - 282: A diagnostic study of Wangara wind profiles in quasi-steady and near neutral cases [Mit *Shi.F.Zhang*]

25, '83, 429-423: Thoughts on priority in Boundary-Layer research ;

28, '84, 193-198: Comments on an observational study of heat fluxes; -

50, '90, 1 - 9 : The O'Neill Experiment of 1953;

Bull. Amer. meteorol. Soc. On Kibel's method of forecasting in relat. to Exner's theory: 29 ('48) 201f. — Turbulence in the stratosphere: 36 ('55) 178f.

66, '85, 873: Werner Schwerdtfeger, 1909 - 1985

Forsch. u. Fortschr. Meteorol. bedingte Erdkrustendeformat.: 16 ('40) 223f.

Geophys. pura e appl. Heat budget of the moon and surface temp. variat. during a lunar eclipse: 19 ('51) 2-20.

Geophysic. Res. Papers. Isotropic and non-isotropic turbulence in the atmospheric surface layer: 1 ('49) 1-86. — Present posit. of selected turbulence probl. in the atmospheric boundary layer: 19 ('52) 49-96. — On eddy diffus. in shear zones: 437-46.

Gerlands Beitr. Geophysik. Wirksamk. einer Großstadt als Quelle d. Luftverschmutzg.: 31 ('31) 387-97. — Periode freier Schwingungen v. unvollständig abgeschlossenen Wasserbecken: 37 ('32) 41-48. — Berechng. d. meridionalen Austauschkoeffizienten: 39 ('33) 426-30. — Großaustausch üb. Europa u. d. Nordatlantik im Winter 1931: 40 ('33) 390-96. — Lotschwankungen unt. d. Einfl. v. Gezeitenkräften u. atmosphär. Kräften: 51 ('37) 250-69. — Lotschwankungen am Gebirgsrand z. Z. d. Schneeschmelze: 54 ('39) 179-93. — Kern- u. Staubgehalt d. Bodenluft u. d. atmosphär. Schwächg. d. Sonnenstrahlg. üb. Afrika u. d. angrenzenden Meeren: 55 ('39) 103-37. — Gustav Adolf Suckstorff †: 57 ('41) 31. — Zeit- u. Höhenabhängigk. d. Austauschkoeffizienten im Tagesgang innerhalb d. Bodenschicht: 171-92. — Anwendg. neuerer Ergebn. d. Austauschlehre auf zwei luft-elekt. Fragen: 365-88. — Nächtl. Nebenmaximum b. tägl. Gang d. vertikalen Austausch-koeffizienten im Zusammenhang m. meteorol. Erscheinungen: 59 ('42) 150-61.

7 1, '62, 257-271: A theoretical model of thermal diffusion in non-homogeneous conductors, with applications to conditions in the lunar crust

Journal of Atmospheric Sciences

- 2 1, '64, 453 - 456: A new vorticity-transfer hypothesis of turbulence theory
- 2 3, '66, 151-158: Longitudinal versus lateral eddy length-scale. [Second Note on a vorticity-transfer hypothesis of turbulence theory]
- 2 5, '68, 718 - 728: Interrelated changes in wind profile structure and Richardson Number in airflow from land to inland lakes [Mit J. Zabranski]

Journal of Applied Meteorology

- 8, '69, 828 - 832: Note on aerodynamic roughness-parameter estimation on the basis of roughness-element description
- 3 0, '91, 767 - 792: Evapoclimatology III: The reconciliation of monthly runoff and evaporation in the climatic balance of evaporable water [Mit E. Hopkins]

Journal of Geophysical Research

- 6 6, '61, 3693-3698: A theoretical model of temperature variations on the surface of an orbiting satellite
- 7 1, '66, 5469-5470: Dust on the Moon's surface?
- 7 3, '70, 28-49 - 2850: Discussion of the paper by C.R. Hosler, 'Vertical diffusivity from Radon profiles.

J. Meteorol. Discuss. of theor. of the atmospheric surface layers: 9 ('52) 225f. — Notes on the transformat. of mech. energy from and to eddying mot.: 11 ('54) 196-201.

13, '56, 507 - 508: Note on the structure of the atmospheric surface layer

17, '60, 378 - 379: Dissipation of energy by turbulence

Meteorol. Rdsch. Theor. d. partiellen Gasentmischg. in d. Atmosphäre: 1 ('47) 5-10, 65-74. —

Ageostroph. Windkomponente u. ihre Ermittlg. aus d. Druckfeld: 85-87. — Maximale Gegensätze d. Luftdruckes als Funkt. d. Erdrotat.: 99f. — Spezif. Singularitäten: 152-55. — Wetterwirksame Vertikalbewegungen u. ihre Ermittlg. aus d. Druckfeld: 257-60, 519-23. — Maximalwerte d. Windgeschwindigk. als Funkt. d. Erdrotat.: 451-53. — Ermittlg. d. Temperaturleitfähigk. d. Untergrundes mittels harmon. Analyse v. Bodentemp.-Variat.: 6 ('53) 99f.

Meteorol. Z. Vertikalaustausch in unmittelb. Berechng ¹⁾: 50 ('33) 47-51. — Unters. üb. atmosphär. Turbulenz u. Vertikalaustausch v. Freiballon aus ²⁾: 250-56; 51 ('34) 249-57; 53 ('36) 44-53. — Luft-Körperalterg. als Austauschprobl. auf Grund v. Staub- u. Kerngehaltsmessungen ³⁾: 54 ('37) 16-23. — Weiterführg. d. Freiballonunters. üb. effekt. Vertikalaustausch u. Luftmassenalterg.: 406-12. — Unmittelb. Einwirkg. atmosphär. Kräfte auf d. Erdkruste: 453-57. — Kältewahrscheinlichk. u. Winterstrenge in Ostpreußen ⁴⁾: 60 ('43) 385-50.

Milchwirtsch. Forsch. Milcherträge u. Wetter: 12 ('31) 201-08.

Mit: ¹⁾ Benjamin Davidson; ²⁾ Käthe Dörffel; ³⁾ Käthe Lettau; ⁴⁾ Martin Röttschke; ⁵⁾ Werner Schwerdtfeger.

See page 3.

Monthly Weather Review

97, '69, 691 - 699: Evapotranspiration climatology

101, '73, 636 - 649: Evapotranspiration climatology II: Refinement of parameterization exemplified by application to the Mabacan River watershed [Mit W. Baradas]

107, '79, 227 - 238: Amazonia's hydrologic cycle and the role of atmospheric recycling in assessing deforestation effects [Mit K. Lettau, und C.B. Mollion]

Physics of Fluids

Supplement, 1967, S79 - S83: New hypothesis for the relationship between eddy and mean states

Schr. Dtsch. Akad. Luftfahrtforsch. Thermodyn. Beeinflussg. arkt. Luftmassen üb. warmen Meeresflächen als Probl. d. meteorol. Strömungs- u. Turbulenzlehre: 8 ('44) 85-115.

Schr. physik.-ökon. Ges. Königsberg. Freie Schwingungen (Seiches) d. Kur. Haffes: 67 ('92) 63-73. — Land- u. Seewinde am Kur. Haff: 71 ('40) 422-28.

Tellus. Re-examinat. of the „Leipzig-Wind-Proble“: 2 ('50) 125-29.

2 1, '69, 208 - 222: Shortwave Radiation Climatology [mit K. Lettau]

Theoretical and Applied Climatology - [Wetter und Leben]

4 4, '92, 17 - 27: Evaporable water and evaporation with and without irrigation of Cache Valley, Utah

4 8, '94, 215 - 226: Vegetation zones and evaporable water in tropical rainy climates

Trans. Amer. geophysic. Union. Theory of surface-temp. and heat-transfer oscillat. near a level ground surface: 32 ('51) 189-200. — Improved models of thermal diffus. in the soil: 36 ('54) 121-32.

Transactions, Wisconsin Academy of Sciences, Arts, & Letters

5 8, '70, 101 - 127: Topographic influence on tornado tracks and frequencies in Wisconsin and Arkansas

Umschau. Ebbe u. Flut d. Erdkruste: 42 ('38) 143-46. — Was sagen d. Temp. d. Mondes üb. seine Oberfl. aus?: 52 ('53) 417-19.

5 5, '56, 724 - 727 Die bisher grösste Felduntersuchung zum Problem der Mikrometeorologie

Veröff. geophysik. Inst. Univ. Leipzig. Theoret. Ableitg. u. physik. Nachweis einer 86täg. Luftdruckwelle: (2) 5 ('31) 107-67 [Dias.]. — Einf. Zeitmarkierg. f. opt. registrierende Seismogr.: 10 ('38) 74f. — Natürl. therm. Bedingungen im Erdmagnet. Variationshaus d. Collm-Observat.: 76-82. — Erdmagnet. Anomalie b. Reudnitz u. ihre geophysik.-geol. Deutg.: 83-89. — Neues Registriergerät f. d. Davoser Frigorimeter: 131-41. — Kleinmeteorol. Erscheinungen am Rande eines Kaltluftsees: 142-51. — Wahre Horizonthöhe f. d. Plattform d. Observat.-Turmes: 152-56. — Der Collm als Wetterzeichen u. Wetterkünder nach d. Bauernregeln d. Oschutzer Pflege: 157-62. — Horizontaldoppelpendel: Anh. 2, 83-142 [Hab.-schr.]. — Synopt.-aerol. Analyse einer 4täg. Wetterwelle: 15 ('49) 107-37.

Water Resources Research

1 3, '77, 699 - 700: Development and field testing of a basin-hydrology simulator.
[Comment on an article by R. Knapp et al.]

Weather [Publ. Roy. Meteorol. Soc., London]

4 1, '86, 130 - 131: Introduction to W. Schwerdtfeger, the last two years of ZWG
[Zentrale Wetterdienst Gruppe]

Weatherwise. The great plains turbulence field program²: 6 ('53) 166-69.

Z. angew. Meteorol. Ergebn. d. Schätzungen d. Blaufärbg. d. Himmels m. einer Ostwaldschen Blauskala in Königsberg: 46 ('29) 336-44. — Meteorol. Einfl. d. Großstadt: 48 ('31) 269-73. — Bioklimat. Besonderh. d. ostpreuß. Küste im Sommer²: 57 ('40) 205-14.

Z. Geophysik. Invar-Minimum-Pendel als Magnetstäbe: 9 ('33) 180-88. — Horizontaldoppelpendel: 13 ('37) 25-33.

Z. Instrumentenkunde. Einfl. d. Erdmagnet. Feldes auf Schweremessungen m. Invar-Pendeln: 54 ('34) 101-07. — Selbsttät. Aufzeichng. d. klimat. Abkühlungsgröße mittels d. Davoser Frigorimeters: 57 ('37) 333-36.

Z. Naturforsch. Zur Frage d. Sauerstoff- u. Wasserbilanz d. Atmosphäre: 7a ('52) 270-73.

H.L., a ~~creature~~ ^{man} of the 20th century, born under the regime of a Kaiser, a witness of worldwar I, two revolutions and worldwar II. The aftermath of which forced to re-root the family to a new home country, but ever devoted to academic research and teaching in fields of geophysical sciences all over the globe.

Life story highlights [by decades]:

- 1901-10: Born near the amber coast of the Baltic Sea, where the neighbouring country was under regime of a tsar.
- 1911-20: The tsar's armies invaded, were repulsed, but worldwar I ended with revolutions first across the border and little later at home.
- 1921-30: Completion of primary and secondary education; first years as University student ; first research in physical meteorology.
- 1931-40: Completion of requirements for academic career; [Ph.D. and Ph.D.habil. at Leipzig]; active research dealing with problems of earth's gravity, magnetic field disturbances, limnology, and meso-scale as well as global scale circulation of the atmosphere, at Potsdam Geodetic Institution and the Observatory of Leipzig-University.
- 1941-50: Drafted as specialist "for duration of the war" by the german Airforce; taken Prisoner of War after D-Day while on travel-duty [for inspection of a radio-sonde station near Rennes, France]; returned to West Germany; had been able to continue academic research and publish results.
- 1951-60: Appointed head of research at reestablished german Weather Service; Accepted position to manage micro-meteorological research at the Directory of Geophysical Research, U.S. Airforce; highlight: the O'Neill Field Experiment; Accepted Professorship at University of Wisconsin
- 1961-70: Wholeheartedly enjoying academic life with graduate students, sponsored by an US-Army Contract on "Micro-met Experimentation", mostly on Lake Mendota ice-cover ; result: 25 PhD.s were born.
- 1971-80: Medals and Prizes [Rossby, Wegener, von Humboldt] , and status as Increase A. Lapham Professor emeritus.
- 1981-90: Wholeheartedly enjoying continuation of academic life after "official retirement"
- 1991-99 --> 21st century: Move to the South-Carolina shore of the Atlantic Ocean, still enjoying life and slowed down research activities.

VIIa □ **LETTAU**, H e i n z □ Helmut Max. Geophysik. Meteorol. — 1947–58 Scientist, Geophysical Research Division, Air Force Cambridge Research Center; '49–58 Lecturer, Massachusetts Inst. of Technol., Cambridge, MA; '57 Visiting Prof., '58–80 Prof. Meteorology and Civil Engineering, '71 A. Lapham Prof., '80 Prof. Emer., Univ. of Wisconsin, Madison, WI; '80 — 2 Consultant (Expert) for Micrometeorol. to *erstes u. letztes Jahr* Natick Laboratories (NLABS), Natick, MA; Visiting Prof. or advising Senior Scientist: '62/63, '71 Univ. Hamburg, '74–75 Stipend. d. A. v. Humboldt Stiftung, Univ. Bonn, '75 World Meteorol. Organizat. (WMO) Assignment, Cairo, Egypt., '75 Stanford Internat. Res. Inst., Menlo Park, CA, '78 IMPE, San Jose dos Campos, Brazil; '80 Simon Bolivar Univ., Caracas, Venezuela, '81 Univ. of Mexico City, Mexico, '82 Utah State College, Logan Utah, UT. — '74 Carl-Gustaf Rossby Research Medal (Amer. Meteorol. Soc.); '74 Humboldt-Forschungspreis (Alexander von Humboldt Stiftung, Bonn); '74 Alfred-Wegener-Medaille (Verband Deutscher Meteorologischer Gesellschaften). [Eig. Mitt. von 2002] *LO*
 □*□1909, Nov. 4, Königsberg, Preußen.

•**Ehrung** (1972) Surface-Lettau-Number, dimensionsloser Grenzschichtparameter. — *Lettau Award* (Univ. of Wisconsin, Atmospheric and Oceanic Sciences Department). — *The Lettau and Wahl Fund* (University of Wisconsin, Madison, WI).

•**Wiss. Leistung** Schöpfung des Begriffes "Klimatonomie" (Theoretische Erfassung des Wärmehaushaltes der Erdoberfläche als Grundlage der Mikro- und Makro-Klimatologie).

•**Bildn.** Umschau (Wiss. u. Techn.) 56 ('56) 724 u. 753.

•**Zur Kurzbiogr.** ~~Trans. Wisconsin Acad. Sci., Arts and Letters 58 ('70) 373.~~ ①

•**Zum 75. Geb.tag** Mitt., Dtsch. Meteorol. Ges. 1984, Nr. 3, 66.

•**Zur Biogr. u. zum wiss. Werk** In: *M. Kornrumpf*, Mir langt's an "Großer Zeit" 1934–1945 (Schwalmstadt [Selbstverlag des Autors] '95) (Kleiner unter Großen; Lebenserinnerungen als zeitgeschichtliche Dokumentation, 6) ab S. 233. — *F. Wippermann*, Laudatio zur Verleihung der A.-Wegener-Medaille: *Annalen Meteorol. (N. F.)* 9 ('74) 7–8 (m. Bildn.). — *Jahrb. Bayer. Akad. Wiss.* 1970, S. 88. — In: *Kriegstagebuch Chef Wetterdienst im 2. Weltkrieg* (Bundes-Militärarchiv Freiburg i. Br.). — — — — *wäre Angaben* ② *Seiten?*

•**H.** Studies of the three-dimensional structure of the planetary boundary layer (Madison, WI '61) Department of Meteorology, University of Wisconsin, Techn. Report 3, Contract DA-36-039-SC-80292); darin eig. Beitr. S. 115–42: Sect. 8: A generalized mathematical model of the mean-velocity distribution in fully turbulent duct flow; ~ ('62) (Final report, Contract DA-36-089-SC-80282); darin eig. Beiträge S. 159–72: Equiangular wind and current spirals; S. 195–226: Notes on theoretical model of profile structure in the diabatic surface layer. — Studies of the effects of variations in boundary conditions on the atmospheric boundary layer (Madison, WI '63) (Annual report, Department of Meteorology, University of Wisconsin, 1963).

•**MH.** Exploring the atmosphere's first mile. Proc. of the Great Plains turbulence field program, 1 August to 8 September 1953, O'Neill, NE, 1: Instrumentation and data evaluation (New York–London–Paris '57); darin eig. Beiträge S. 328–36: Computation of Richardson numbers classification of wind profiles, and determination of roughness parameters; S. 337–72: Summary of non-dimensional characteristics of boundary layer theory; 2: Site description and data tabulation ('57). — Exploring the world's driest climate (Madison, WI '78) (Institute for Environmental Studies, IES report, 101); darin eig. Beiträge: 12–28: The field expedition to the Pampa de La Joya; 57–62: Shading experiments on the desert floor; 110–46: Experimental and micrometeorological field studies of dune migration⁹⁾; 163–81: Characteristic winds and boundary-layer meteorology of the arid zones in Peru and Chile¹²⁾; 182–84: Explaining the world's driest climate.

•**S. C. F. Campen u. a.**, Handbook of geophysics for Air Force designers (Cambridge, MA '57): Chapter 5: Empirical models of the wind structure in the atmosphere⁵⁾; [Neutr. u. d. T.: Handbook of geophysics (New York '60)]. — Atmospheric diffusion and air pollution. Proc. of a symposium, Oxford 1958 (F. N. Frenkiel, P. A. Sheppard) (New York–London '59) (Advances in geophysics, 6) 241–56: Wind profile, surface stress, and geostrophic drag coefficients in the atmospheric surface layer. — McGraw-Hill encyclopedia of science and technology. An international reference work, 8 (New York–London '60): Micrometeorology (1 Seite). — Handbuch der Aerologie (W. Hesse) (Leipzig '61) 622–46: Turbulenz und Flugunruhe. Turbulenz der Atmosphäre. — Mécanique de la turbulence. Colloque, Marseille 1961 (Paris '62) (Colloques internationaux du Centre national de la recherche scientifique, 108) 17–26: The mathematical nature of the problem of relating

Beilage: Anmerkungen, Korrekturen und Ergänzungen:

Korrektur: U. Wisconsin Week, May 18, 1975, page 1: PROFILE: HEINZ LETTAU
[Interview by B. Mattmiller]

①

Anmerkung ① K ist unrichtig bezüglich meines August 1944 'professional meeting'
mit Group Capt. Stagg. Siehe :

Anmerkung ② K. verschweigt mein October 1944 'professional meeting' mit Prof.
Helmut Landsberg, in Washington, D.C. Siehe:

Ergänzung: Interview by Prof. S. Nicholson, Mar and April 2002, as part of the
TAPE RECORDED INTERVIEW PROJECT, Amer. Met Soc., organized by
University Corporation for Atmospheric Research, Boulder, Colorado

②

Anmerkung ③ K. verschweigt meine Bestallung als 'Compound Spokesman' und
'Director of Education at the PoW Camp Ruston Louisiana'.

Siehe anliegende Kopie der "Order" des Lager Kōmmandanten.

Ich kann die erwünschten Angaben nicht machen da diese Quelle mir
unzugänglich ist.

Ergänzung: J.M. Lewis, 1997, The Lettau-Schwerdtfeger Balloon Experiment:
Measurement of Turbulence via Austausch Theory.

Bulletin, Amer. Meteor. Soc., 78, 11, 2619-2135

Ergänzung: The Life Cycle of Pleistocene Glaciations [mit L. Keller and C. Stearns]
Manuscript, 51 pages, submitted Aug. 2002 to J. geophys. Res.

③

Returned with
undeniable suggestions

Ergänzung: Was sagen die Temperaturen des Mondes über seine Oberfläche
aus? 52 ('53) 417-418

Lagrangian and Eulerian statistical functions in turbulence; engl.: Mechanics of turbulence (New York '64). — Studies in antarctic meteorology (M. J. Rubin) (Washington, DC '66) (Antarctic research series, 9; National Academy of Sciences. National Research Council: Publ., Nr. 1482) 1–12: A case study of katabatic flow on the South Polar plateau; 13–57: South Pole micrometeorology program; data analysis³⁾¹⁴⁾. — Boundary layers and turbulence. Proc. of an International symposium on boundary layers and turbulence including geophysical applications, Kyoto 1966 (K. F. Bowden, F.N. Frenkiel, I. Tani) (New York '67) (Physics Fluids, 10 ('67), Suppl.) S79–S83: New hypothesis for the relationship between eddy and mean states. — The collection and processing of field data. A Commonwealth Scientific and Industrial Research Organization (CSIRO) symposium, Canberra, Australia, 1966 (E. F. Bradley, O. T. Denmead) (New York '67) 1–40: Problems of micrometeorological measurements. (On degree of control in out-of-doors experiments). — Proc. of the Symposium on mountain meteorology, Fort Collins, CO 1967 (E. R. Reiter, J. L. Rasmussen) (Fort Collins, CO '67) (Atmospheric science paper, 122): 3–74: Small to large-scale features of boundary-layer structure over mountain slopes. — Proc. of the Symposium on multiple-source urban diffusion models, Chapel Hill, NC 1970 (A. C. Stern) (Washington, D. C. '70) (U.S. Air Pollution Control Office publication, AP-86) Section 2: Physical and meteorological basis for mathematical models of urban diffusion processes (26 S.). — Research in the Antarctic. A symposium presented at the Dallas meeting 1968 of the American Association for the Advancement of Science (AAAS), Antarctic Research Symposium at the 135th annual meeting of the AAAS (L. O. Quam, H. D. Porter) (Washington, DC '71) (AAAS Publ., 93) 443–74: Antarctic atmosphere as a test tube for meteorological theories. — Phenology and seasonality modeling. Chiefly papers presented at a symposium held during the 25th annual American Institute of Biological Sciences (AIBS) meeting, Minneapolis, MN 1972 (H. Lieth) (Berlin–Heidelberg–New York–London '74) (Ecological studies, 8; Eastern deciduous forest biome contribution, International Biological Programme, 85) 343–52: Modeling the annual cycle of soil moisture. Evapotranspiration climatology of drainless areas⁹⁾. — Climate of the Arctic: 24th Alaska Science Conference, Fairbanks, AK 1973 (G. Weller, S. A. Bowling) (Fairbanks, AK ['75]) 209–21: Regional climatology of tundra and boreal forest in Canada⁹⁾. — World survey of climatology (H. E. Landsberg), 12: Climates of Central and South America (W. Schwerdtfeger) (Amsterdam–Oxford '76) 188–92: Dynamic and energetic factors which cause and limit aridity along South America's Pacific coast. — Meteorological studies at Plateau Station, Antarctica (J. A. Businger) (Washington, DC '77) (Antarctic research series, 25) 77–91: Paper 6: Air temperature and two-dimensional wind profiles in the lowest 32 meters as a function of bulk stability at Plateau Station¹¹⁾⁸⁾; 93–111: Paper 7: Stability-related wind spiraling in the lowest 32 meters above Plateau Station⁸⁾¹¹⁾. — Internationales Dr. Franz Sauberer Gedächtnissymposium. International symposium in memory of Dr. Franz Sauberer, Wien 1984 (I. Dirmhirn, Red.: C. Bernhofer) (Wien '84) 21–28: The Sauberer-Mahringer soilheat diffusion experiment; a re-analysis using force-response modeling equations.

•W. Synthetic climatology (Washington, DC '57) 37 Bl. (U. S. Department of Commerce, Office of Technical Services. A Government research report). — South Pole micrometeorology program, 2: Data analysis (m. P. C. Dalrymple, S. H. Wollaston) (Natick, MA u. a. '63) 14+388 S. (Quartermaster Research and Engineering Center, Natick, MA, Technical reports, Earth Sciences Division, ES-7) (Reports, Institute of Polar Studies, Columbus, OH, 20). — Glossary of terms frequently used in cloud physics (m. K. Lettau) (New York '66) 40 S. (American Institute of Physics, Publ. R-193). — Little America V. Micrometeorology program. Data and analysis (m. S. H. Wollaston, P. C. Dalrymple) (Natick, MA '67) 16+253 S. (Technical reports, Earth Sciences Division, U.S. Army Natick Laboratories, 67-46-ES) (Contribution, Institute of Polar Studies, Ohio State University, 97). — Application of magnetohydrodynamics to measurement of liquid velocity and turbulence (m. J. R. Villemonte, J.A. Hoopes) (Madison, WI '71) 80 S. (Technical completion report, Office of Wisconsin Water Resources Center, OWRR B-012-WIS) (OWRR A-033-WIS).

•Annalen Meteorol. Anthropogene Beeinflussung von Klima und Witterungsparametern: (N. F.) 9 ('74) 9–13.

•Antarctic J. United States Thermal response to albedo reduction on Antarctic snow-modeling results: 12 ('77) 134–36. — Dynamics of the surface-wind regime over the interior of Antarctica¹³⁾: 155–58.

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•Bayerisches landwirtschaftl. Jahrb. Über die "anomale" Abnahme des Verhältnisses von Abfluß zu Niederschlag mit zunehmender Entwaldung in Zentral-Panama: 67 ('90) Sonderh. 1, 131–37 [m. engl. Zusammenfassg.].

3

•**Beitr. Physik Atmosph.** Theoretical notes on the dynamics of the equatorial atmosphere: 29 ('56) 107–22 [m. deutscher u. franz. Zusammenfassg.]. — Windprofil, innere Reibung und Energieumsatz in den unteren 500 m über dem Meer: 30 ('57) 78–96 [m. engl. u. franz. Zusammenfassg.]. — Theoretical wind spirals in the boundary layer of a barotropic atmosphere: 35 ('62) 195–212 [m. deutscher u. franz. Zusammenfassg.]. — Über die Bestimmung der Höhenverteilung von Schubspannung und Austauschkoefizient in der atmosphärischen Reibungsschicht⁶): 37 ('64) 105–18 [m. engl. u. franz. Zusammenfassg.].

•**Boundary Layer Meteorol.** Variangular wind spirals²): 1 ('70) 64–79. — Semi-diurnal wind variation in the friction layer above the tropical ocean: 6 ('74) 13–33. — Climatological modeling of temperature response to dust contamination of Antarctic snow surfaces: 12 ('77) 213–29. — Wind and temperature profile prediction for diabatic surface layers including strong inversion cases: 17 ('79) 443–64. — A diagnostic study of Wangara wind profiles in quasi-steady and near-neutral cases¹⁶): 23 ('82) 265–82. — Thoughts on priorities in boundary-layer research: 25 ('83) 429–32. — Comments on "An observational study of heat fluxes and their relationships with net radiation", by D. Camuffo and A. Bernardi: 28 ('84) 193–98. — The O'Neill experiment of 1953: 50 ('90) 1–9.

•**Bull. Amer. Meteorol. Soc.** Werner Schwerdtfeger, 1909–1985: 66 ('85) 873.

•**Gerlands Beitr. Geophysik** A theoretical model of thermal diffusion in non-homogeneous conductors. (With applications to conditions in the Moon's crust): 71 ('62) 257–71 [m. deutscher Zusammenfassg.].

•**J. appl. Meteorol.** Note on aerodynamic roughness-parameter estimation on the basis of roughness-element description: 8 ('69) 828–32. — Evapotranspiration, 3: The reconciliation of monthly runoff and evaporation in the climatic balance of evaporable water on land areas⁷): 30 ('91) 776–92.

•**J. geophysic. Res.** A theoretical model of temperature variations at the surface of an orbiting satellite: 66 ('61) 3693–98. — Dust on the Moon's surface?: 71 ('66) 5469–70. — Discussion of the paper by C. R. Hosler, "Vertical diffusivity from radon profiles": 75 ('70) 2849–50. (3)

•**J. Meteorology** Reply (to A. K. Blackadar, Notes on the transformation of mechanical energy from and to eddy motion): 12 ('55) 413–14. — Note on the structure of the atmospheric surface layer: 13 ('56) 507–08. — Comments on "Distribution of surface friction in hurricanes" (by L. F. Hubert): 17 ('60) 378–79. — Dissipation of energy by turbulence: 18 ('61) 125–26 ~~17 ('60) 378–79~~. *was ist richtig?*

J. atmospher. Sci. A new vorticity-transfer hypothesis of turbulence theory[. 1]: 21 ('64) 453–56; On a vorticity-transfer hypothesis of turbulence theory, 2: Longitudinal versus lateral eddy length-scale: 23 ('66) 151–58. — Reply (to J. L. Lumley, R. W. Stewart, On a conjecture of Lettau): 22 ('65) 594–96. — Interrelated changes of wind profile structure and Richardson number in air flow from land to inland lakes¹⁵): 25 ('68) 718–28.

•**Monthly Weather Rev.** Thermally and frictionally produced wind shear in the planetary boundary layer at Little America, Antarctica: 95 ('67) 627–34. — Evapotranspiration climatology, 1: A new approach to numerical prediction of monthly evapotranspiration, runoff, and soil moisture storage: 97 ('69) 691–99; ~ 2: Refinement of parameterization, exemplified by application to the Mabacan River watershed¹): 101 ('73) 636–49. — Amazonia's hydrologic cycle and the role of atmospheric recycling in assessing deforestation effects⁹): 107 ('79) 227–38.

•**Tellus [Stockholm]** Shortwave radiation climatology⁹): 21 ('69) 208–22 [m. russ. Zusammenfassg.].

•**Trans. Wisconsin Acad. Sci., Arts and Letters** Topographic influence on tornado tracks and frequencies in Wisconsin and Arkansas⁴): 58 ('70) 101–27.

•**Umschau (Wiss. u. Techn.)** Die bisher größte Felduntersuchung zum Problem der Mikrometeorologie, 1: Aufgabenstellung und Planung: 56 ('56) 724–27; ~ 2: Ergebnisse: 753–55. (4)

•**Water Resources Res.** Development and field testing of a basin hydrology simulator (Comment on an article by R. M. Knapp et al.): 13 ('77) 699–700. — [Voranzeige in: SV 22, S. 137: "Lettau (1989)"] Watershed deforestation and runoff in a tropical climate: 25 ('89) or 26 ('90).

•**Weather** Introduction to *W. Schwerdtfeger*, The last two years of ZWG [Zentrale Wetterdienst-Gruppe]: **41** ('86) 130–31.

•**Wetter u. Leben** Evaporable water and evaporation with and without irrigation of Cache Valley floorlands: **44** ('92) 17–28. — Vegetation zones and evaporable water in tropical rainy climates: **48** ('94) 215–26.

•**Z. Geomorphol.** Bulk transport of sand by the barchans of the Pampa de La Joya in Southern Peru⁹): **13** ('69) 182–95 [m. franz. u. deutscher Zusammenfassg.].

Mit: ¹) Baradas, M. W.; ²) Dabberdt, W. F.; ³) Dalrymple, P. C.; ⁴) Gallimore jr., R. G.; ⁵) Haugen, D. A.; ⁶) Hoerber, H.; ⁷) Hopkins, E. J.; ⁸) Kuhn, M.; ⁹) Lettau, K.; ¹⁰) Molion, L. C. B.; ¹¹) Riordan, A.; ¹²) Rutland-Costa, J.; ¹³) Schwerdtfeger, W.; ¹⁴) Wollaston, S. H.; ¹⁵) Zabransky, J.; ¹⁶) Zhang, S. F.