

Correspondence

Dr R.H. Clarke's publications

The Editor

Australian Meteorological Magazine

Dear Sir,

Some of the research contributions of Reg Clarke were described in last December's issue of the *Australian Meteorological Magazine*. Reg found great satisfaction in attempting to answer questions which arose in daily practice and for which there appeared to be no adequate explanation. I thought that some readers might be interested in learning more about Reg's career; below I have prepared a list of Reg's publications. The breadth of his interests, the variety of techniques he used to explore them, and his sense of enquiry is evident. We will miss him.

Dale Hess

Clarke, R.H. 1948. Fast moving cirrus cloud at Canberra. *Weather Development and Research Bulletin*, 10, Bur. Met., Australia, 19-20.

Clarke, R.H. 1949. Ascending currents at Canberra. *Weather Development and Research Bulletin*, 13, Bur. Met., Australia, 20-21.

Clarke, R.H. 1952. The effect of the tropopause on the thickness patterns. *Aust. Met. Mag.*, 1, 16-21.

Clarke, R.H. 1953. Comments on 'Barossa Valley frost-forecasting' by E.J. Mizon. *Aust. Met. Mag.*, 3, 38-40.

Clarke, R.H. 1954. An objective method of forecasting fog at Rockhampton. *Met. Study*, 2, Bur. Met., Australia.

Clarke, R.H. 1954. Forecasting tracks of cyclones and 24-hour pressure change systems. *Aust. Met. Mag.*, 7, 44-55.

Clarke, R.H. 1954. Frontal analysis over the Southern Ocean. *Aust. Met. Mag.*, 5, 33-54.

Clarke, R.H. 1954. The use of upper charts in forecasting. *Aust. Met. Mag.*, 7, 26-43.

Clarke, R.H. 1955. Some observations and comments on the seabreeze. *Aust. Met. Mag.*, 11, 47-68.

Clarke, R.H. 1955. Southern Ocean Analysis, 1-3 January 1954. *Aust. Met. Mag.*, 11, 85-8.

Clarke, R.H. 1956. A study of cyclogenesis in relation to the contour of the 300 mb surface. *Aust. Met. Mag.*, 12, 1-21.

Clarke, R.H. 1958. Midsummer diurnal winds in the southeast of South Australia, Fire Weather Conference, July 1958. Melbourne, Paper 14, Bur. Met., Australia.

Clarke, R.H. 1958. Some observations on spring rainfall at Melbourne. *Aust. Met. Mag.*, 20, 39-60.

Clarke, R.H. 1958. Evaluation of upper air prognosis by Rossby method. *Aust. Met. Mag.*, 21, 80-3.

Radok, U. and Clarke, R.H. 1958. Some features of the subtropical jet stream. *Beitr. Phys. frei Atmos.*, 31, 1-12.

Clarke, R.H. 1959. An attempt to deduce the effect of Antarctica on the temperature of middle latitudes by a controlled model experiment. *Antarctic Meteorology*, Pergamon Press, Oxford, 221-32.

Clarke, R.H. 1960. The rain-producing potential of cold and seabreeze fronts. Paper No. 11.1, Seminar on Rain, Sydney, Bur. Met., Australia.

Clarke, R.H. 1961. The mesostructure of dry cold fronts over featureless terrain. *J. Met.*, 18, 715-35.

Clarke, R.H. 1962. Pressure oscillations and fallout draughts. *Q. Jl R. met. Soc.*, 88, 459-69.

Clarke, R.H. 1962. Severe local wind storms in Australia. *Tech. Paper*, 13, CSIRO Div. Met. Phys., 56, pp.

Clarke, R.H. 1963. The effect of wind on the propagation rate of acoustic gravity waves. *Tellus*, 15, 287-96.

Clarke, R.H. 1965. Horizontal mesoscale vortices in the atmosphere. *Aust. Met. Mag.*, 50, 1-25.

Troup, A.J. and Clarke, R.H. 1965. A closer examination of Hobart rainfall fluctuations. *Aust. Met. Mag.*, 50, 35-43.

Clarke, R.H. 1966. Turbulence and the detailed structure of a subtropical jet stream. *J. Atmos. Sci.*, 23, 516-630.

Clarke, R.H. 1970. Microbarograph observation of acoustic gravity waves. *Nature*, 225, 535.

Clarke, R.H. 1970. Observational studies in the atmospheric boundary layer. *Q. Jl R. met. Soc.*, 96, 91-114.

Clarke, R.H. 1970. Recommended methods for the treatment of the boundary layer in numerical models of the atmosphere. *Aust. Met. Mag.*, 18, 52-73.

Clarke, R.H. 1970. Suggestions for the treatment of turbulence (vertical mixing) in mathematical model atmospheres. Unpublished manuscript.

Clarke, R.H. and Priestley, C.H.B. 1970. The asymmetry of Australian desert sand ridges. *Search*, 1, 77.

Clarke, R.H. 1971. Depth of the boundary layer. *Atmos. Environ.*, 5, 67-9.

Clarke, R.H. 1971. Representation of fluxes in terms of parameters external to the boundary layer. Unpublished manuscript.

Clarke, R.H., Dyer, A.J., Brook, R.R., Reid, D.G. and Troup, A.J. 1971. The Wangara experiment: boundary layer data. *Tech. Paper*, 19, CSIRO Div. Met. Phys., 362 pp.

Delsol, F., Miyakoda, K. and Clarke, R.H. 1971. Parameterized processes the surface boundary layer of an atmospheric circulation model. *Q. Jl R. met. Soc.*, 97, 181-208.

Miyokoda, K., Moyer, R.W., Stambler, H., Clarke, R.H. and Strickler, R.F. 1971. A prediction experiment with a global model of the Kurihara grid. *J. Met. Soc. Japan*, 49, 521-36.

Clarke, R.H. 1972. A note on nocturnal radiation reversal. *Mon. Weath. Rev.*, 100, 354-6.

Clarke, R.H. 1972. Numerical modelling of a case of nocturnal radiation reversal. *Mon. Weath. Rev.*, 100, 357-9.

Clarke, R.H. 1972. The morning glory: an atmospheric hydraulic jump. *Jnl appl. Met.*, 11, 304-11.

Clarke, R.H. 1972. The vertical propagation of angular momentum in the west wind belts. *Q. Jl R. met. Soc.*, 98, 617-26.

Clarke, R.H. and Strickler, R.F. 1972. A southern hemisphere prediction experiment with a nine level primitive equation model. *Mon. Weath. Rev.*, 100, 625-36.

Smith, F.B., Rayment, R., Carson, D.J. and Clarke, R.H. 1972. Discussion of 'Observational studies in the atmospheric boundary layer'. *Q. Jl R. met. Soc.*, 98, 231-5.

Clarke, R.H. 1973. A numerical model of the seabreeze (energy and mass flux across a long straight coastline due to the seabreeze mechanism). *First Australian Conference on Heat and Mass Transfer, Monash University*, 23-25 May 1973, Section 1, 42-8.

Clarke, R.H. 1973. Note on the variability of empirical determinations of the function A and B of Rossby number similarity theory. *Beitr. Phys. frei Atmos.*, 46, 64-6.

Clarke, R.H. and Hess, G.D. 1973. On the appropriate scaling for velocity and temperature in the planetary boundary layer. *J. Atmos. Sci.*, 30, 1346-53.

- Hess, G.D. and Clarke, R.H. 1973. Comments on 'Geostrophic drag, heat and mass transfer coefficients for the adiabatic Ekman layer'. *J. Atmos. Sci.*, 30, 154-5.
- Hess, G.D. and Clarke, R.H. 1973. Time spectra and cross-spectra of kinetic energy in the planetary boundary layer. *Q. Jl R. met. Soc.*, 99, 130-53.
- Clarke, R.H. 1974. Attempts to simulate the diurnal course of meteorological variables in the boundary layer. *Atmos. Oceanic Physics*, 10, 360-74.
- Clarke, R.H. 1974. Handover in scale of boundary layer fluxes. *IAMAP/IAPSO Combined First Special Assemblies*, University of Melbourne, 14-25 January.
- Clarke, R.H. and Hess, G.D. 1974. Boundary layer relationships as revealed by the Wangara experiment. *IAMAP/IAPSO Combined First Special Assemblies*, University of Melbourne, 14-25 January.
- Clarke, R.H. and Hess, G.D. 1974. Geostrophic departure and the functions A and B of Rossby number similarity theory. *Bound. Lay. Met.*, 1, 267-87.
- Clarke, R.H. 1975. Note on baroclinicity and the inverse behaviour of surface stress and wind turning in the boundary layer. *Beitr. Phys. frei Atmos.*, 48, 46-50.
- Clarke, R.H. and Hess, G.D. 1975. On the relation between surface wind and pressure gradient, especially in lower latitudes. *Bound. Lay. Met.*, 9, 325-39.
- Clarke, R.H. 1978. *The future of weather forecasting in Australia*. Australian Numerical Meteorology Research Centre, 44 pp.
- Clarke, R.H. 1979. The 'morning glory' off the Gulf of Carpentaria coast. *Aust. Met. Mag.*, 27, 301-3.
- Clarke, R.H. and Brook, R.R. (eds.) 1979. The Koorin expedition: Atmospheric boundary layer data over tropical savannah land. *Met. Summary*. AGPS, Canberra, 359 pp.
- Clarke, R.H. 1980. Meteorology ancient and modern. *Aust. Met. Mag.*, 20, 231-42.
- Christie, D.R., Muirhead, K.J. and Clarke, R.H. 1981. Solitary waves in the lower atmosphere. *Nature*, 293, 46-9.
- Clarke, R.H., Coulman, C.E. and Ryan, B.F. 1981. Aircraft penetrations. Cold Fronts Research Programme, Phase I, *Tech. Rep.*, 46, B.F. Ryan (ed.), Bur. Met., Australia, 52-6.
- Clarke, R.H., Downey, W.K. and Troup, A.J. 1981. Evaluation of progress towards the scientific objectives. *Tech. Rep.*, 46, B.F. Ryan (ed.), Bur. Met., Australia, 81-5.
- Clarke, R.H., Smith, R.K., and Reid, D.G. 1981. The morning glory of the Gulf of Carpentaria: an atmospheric undular bore. *Mon. Weath. Rev.*, 109, 1726-50.
- Clarke, R.H. 1983. The 'morning glory' of northern Australia. *Weatherwise*, 36, 134-7.
- Clarke, R.H. 1983. Fair weather nocturnal inland wind surges and atmospheric bores. Part I: Nocturnal wind surges. *Aust. Met. Mag.*, 31, 133-45.
- Clarke, R.H. 1983. Fair weather nocturnal inland wind surges and atmospheric bores. Part II: Internal atmospheric bores in northern Australia. *Aust. Met. Mag.*, 31, 147-60. (See Corrigenda, *Aust. Met. Mag.*, 32, p. 53.)
- Clarke, R.H. 1984. Colliding sea-breezes and the creation of internal atmospheric bore waves: two-dimensional numerical studies. *Aust. Met. Mag.*, 32, 207-26.
- Clarke, R.H. 1985. Geostrophic wind over Cape York Peninsula and pressure jumps around the Gulf of Carpentaria. *Aust. Met. Mag.*, 33, 7-10.
- Clarke, R.H. 1986. Several atmospheric bores and a cold front over southern Australia. *Aust. Met. Mag.*, 34, 65-76.
- Clarke, R.H. 1988. A statistical study of Melbourne radar rain echoes. *Aust. Met. Mag.*, 36, 245-57.
- Clarke, R.H. 1989. Sea-breezes and waves: the 'Kalgoorlie sea-breeze' and the 'Gondiwindi breeze'. *Aust. Met. Mag.*, 37, 99-107.
- Clarke, R.H. 1989. On the mortality of morning glories. *Aust. Met. Mag.*, 37, 167-72.
- Clarke, R.H. 1989. The saga of Australian morning glory cloud lines. In, *Windows on Australian Meteorology*. E.K. Webb (ed.), (in press).
- Clarke, R.H. 1989. A climatology of Melbourne radar rain echoes. *Dept. met. Publ.*, 32, University of Melbourne, 37 pp.
- Clarke, R.H. 1990. The lower atmosphere over a dry season savannah site. Part I: the observations. *Aust. Met. Mag.*, 38, 163-71.
- Clarke, R.H. 1990. The lower atmosphere over a dry season savannah site. Part II: modelling and deductions. *Aust. Met. Mag.*, 38, 235-44.
- Clarke, R.H. 1990. Modelling mixed-layer growth in the Koorin Experiment. *Aust. Met. Mag.*, 38, 227-34.