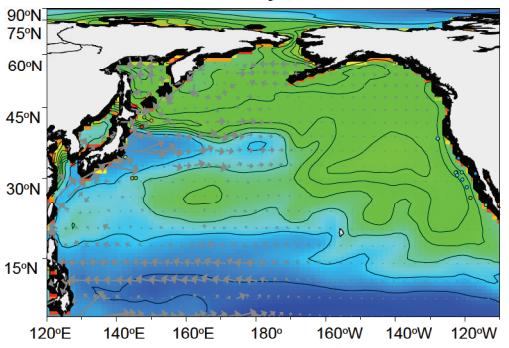
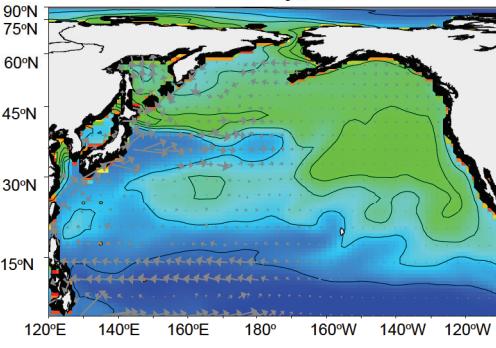
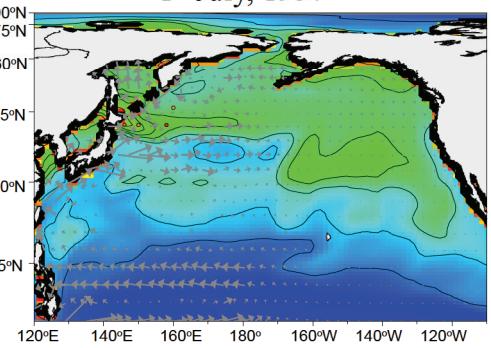


1st January, 1958

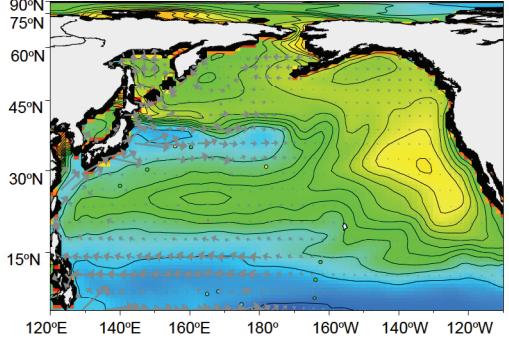
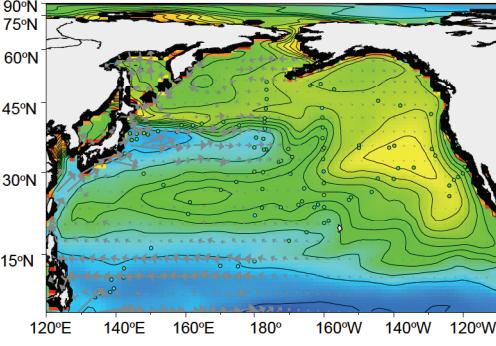
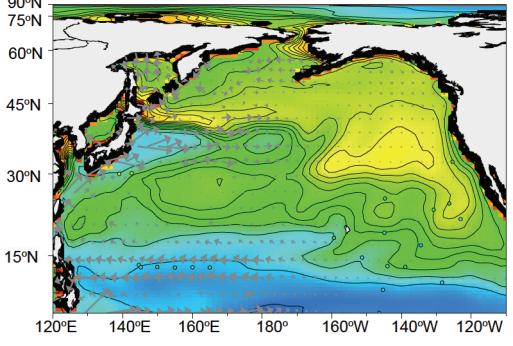
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1st January, 1960

1st January, 1961

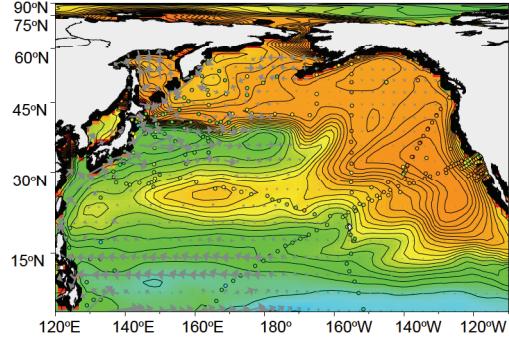
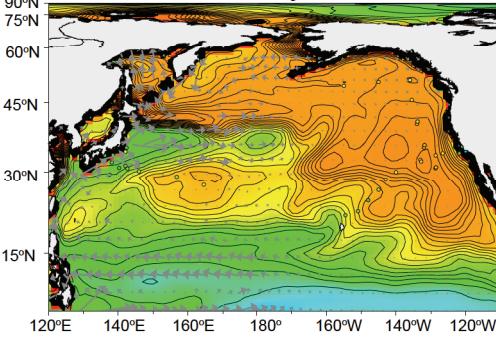
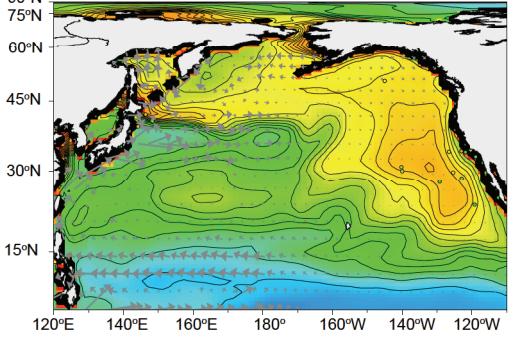
1st January, 1962



1st January, 1963

1st January, 1964

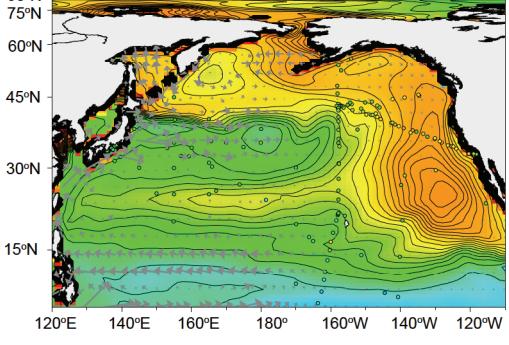
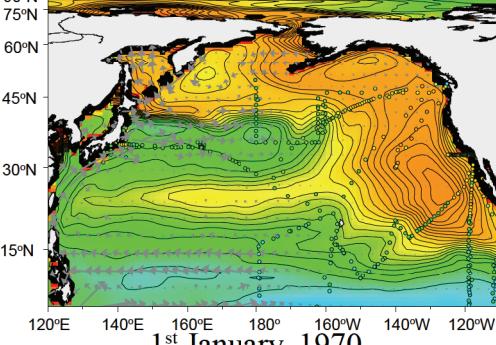
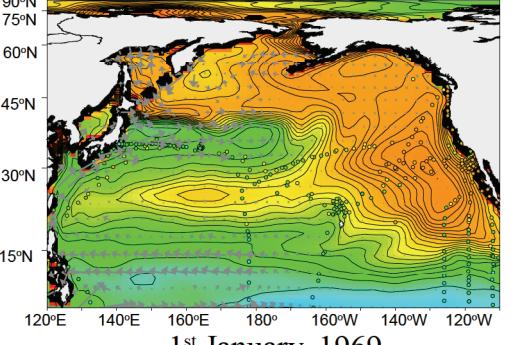
1st January, 1965



1st January, 1966

1st January, 1967

1st January, 1968



1st January, 1969

1st January, 1970

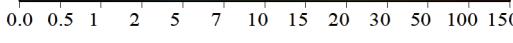
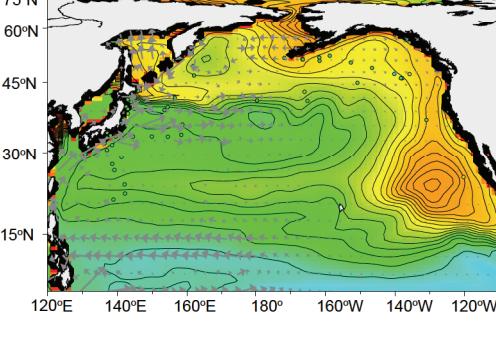
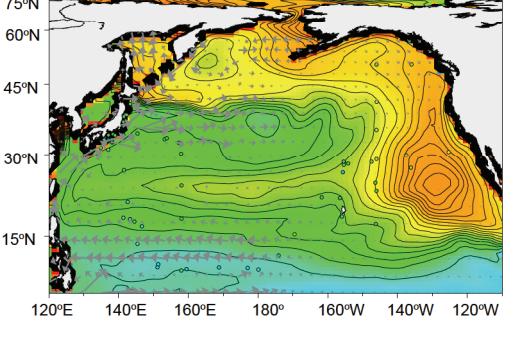
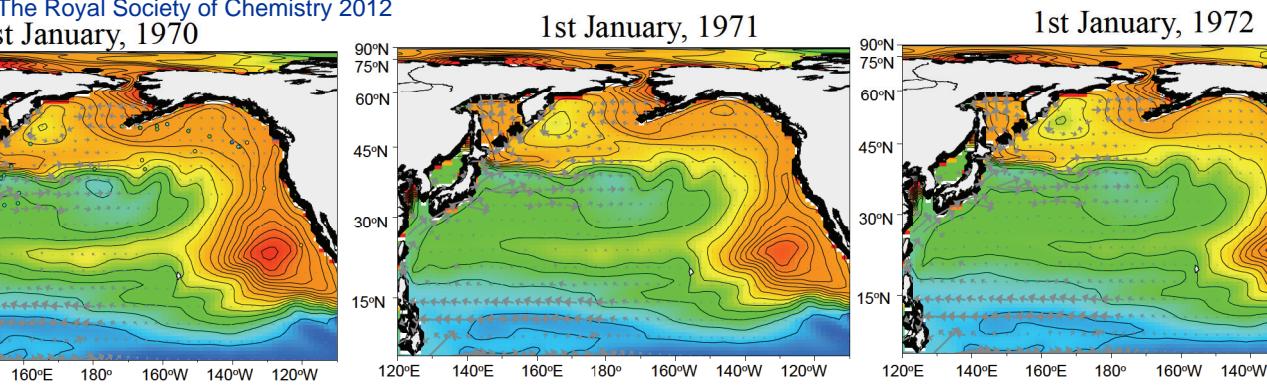


Fig. D1a Horizontal distribution of CRICs concentrations in surface seawater from 1957 to 1970. Circles indicate the measurement data. Gray arrow is climatologically ocean surface current. Unit is in Bq m^{-3} .

1st January, 1970

1st January, 1971

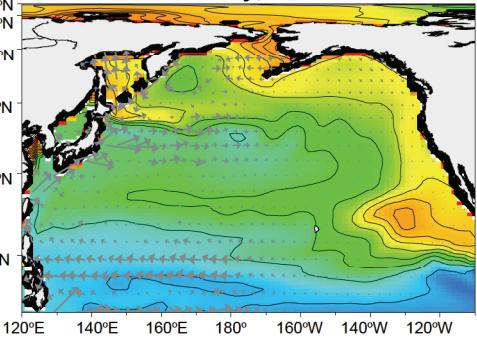
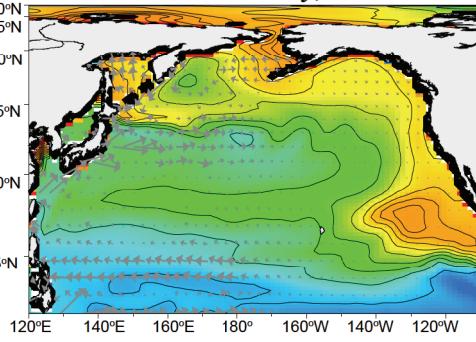
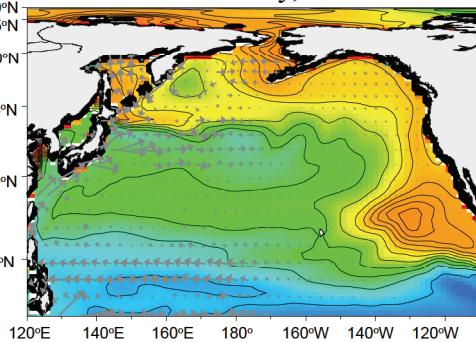
1st January, 1972



1st January, 1973

1st January, 1974

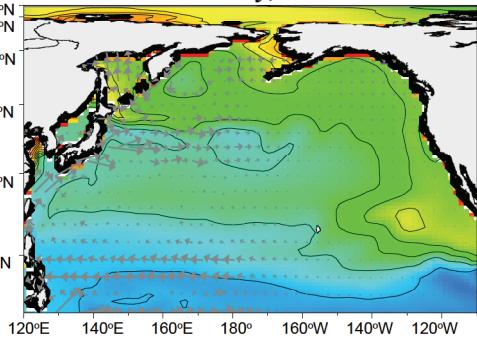
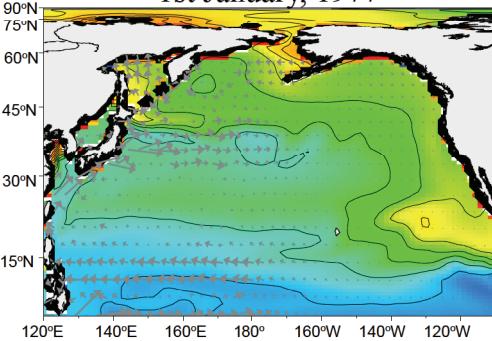
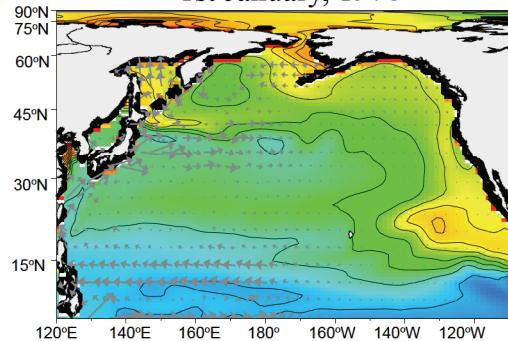
1st January, 1975



1st January, 1976

1st January, 1977

1st January, 1978



1st January, 1979

1st January, 1980

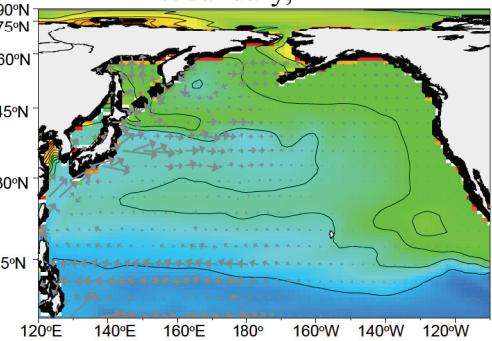
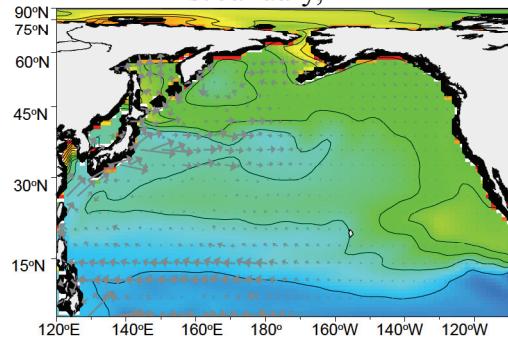


Fig. D1b Horizontal distribution of CRICs in surface seawater from 1970 to 1980.

Details are same as for Fig. D1a. It is note that the colour scale is different from Fig. D1a.

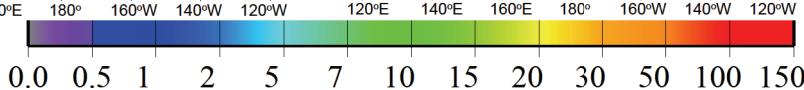
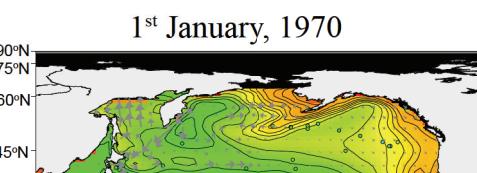
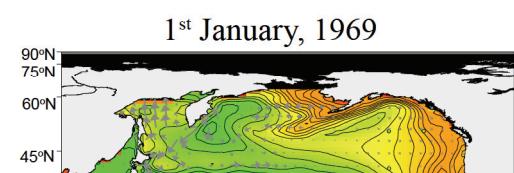
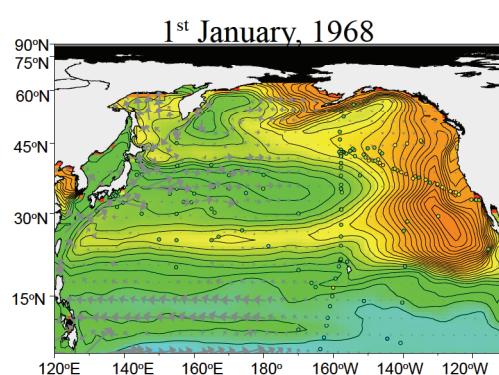
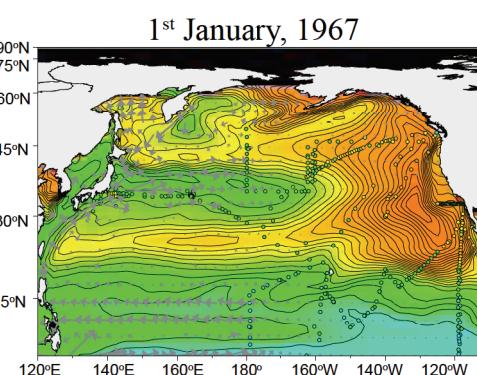
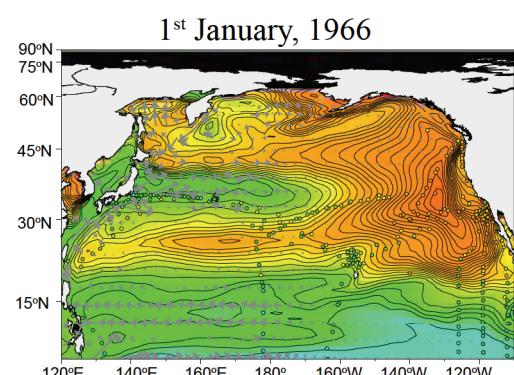
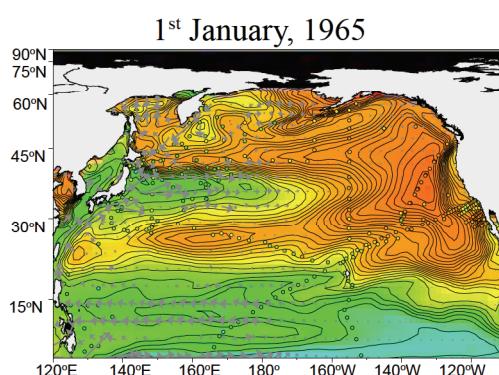
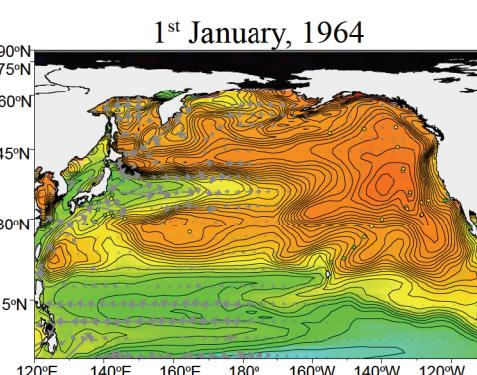
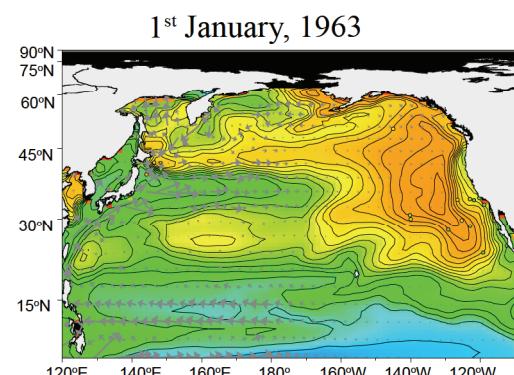
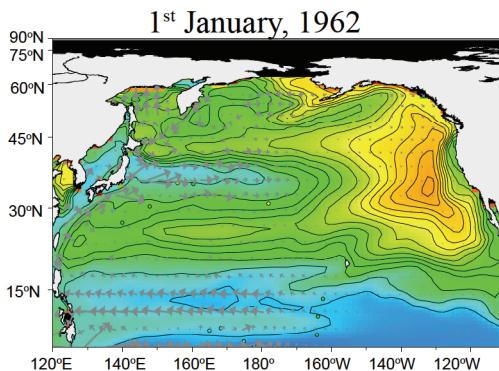
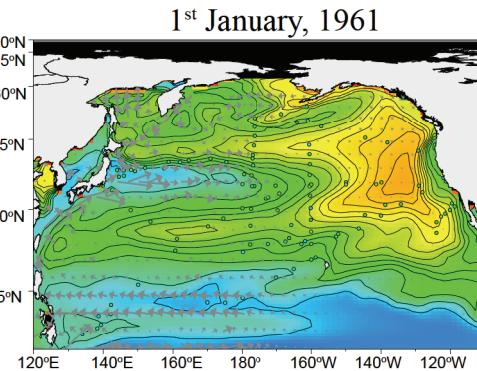
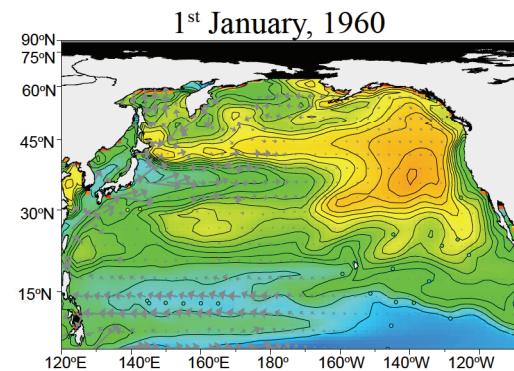
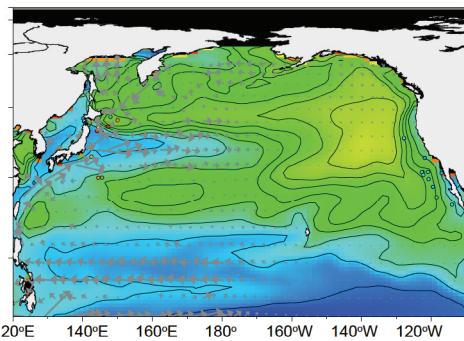
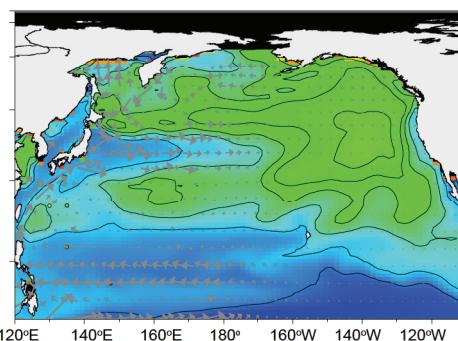
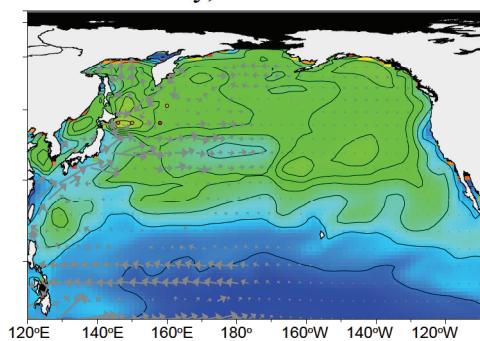
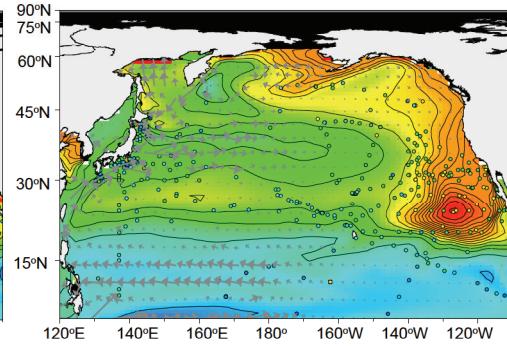
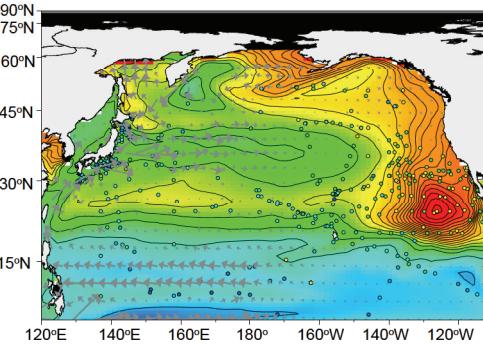
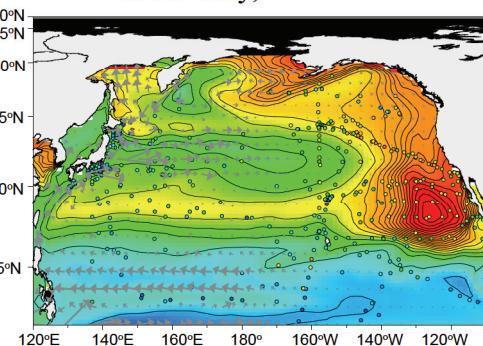


Fig. D2a Horizontal distribution of MRICs in surface seawater from 1957 to 1970.
Circles indicate the measurement data. Grey arrow is the climatologically driven
ocean surface current. Units are Bq m⁻³.

1st January, 1970

1st January, 1971

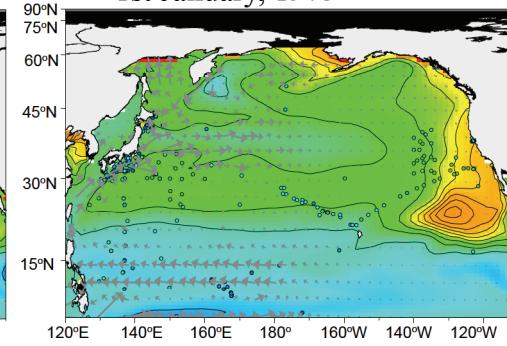
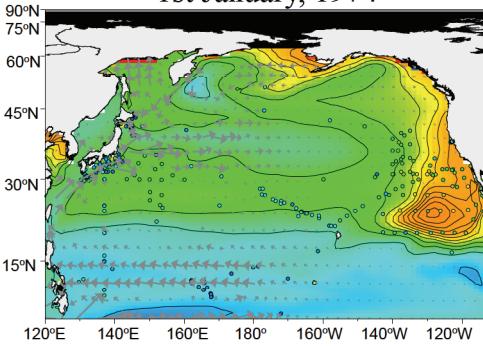
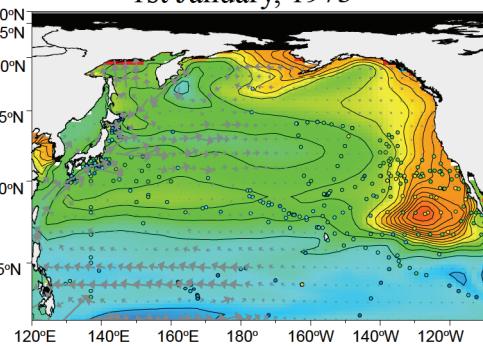
1st January, 1972



1st January, 1973

1st January, 1974

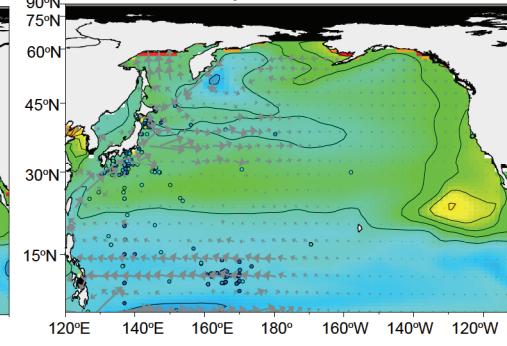
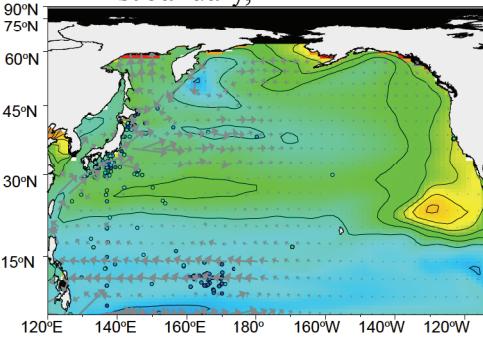
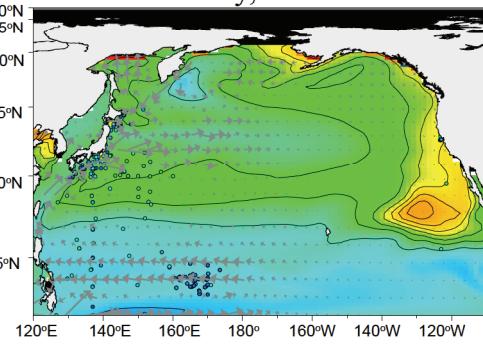
1st January, 1975



1st January, 1976

1st January, 1977

1st January, 1978



1st January, 1979

1st January, 1980

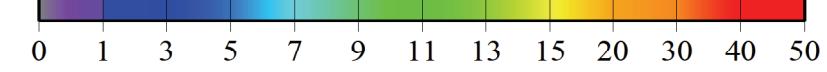
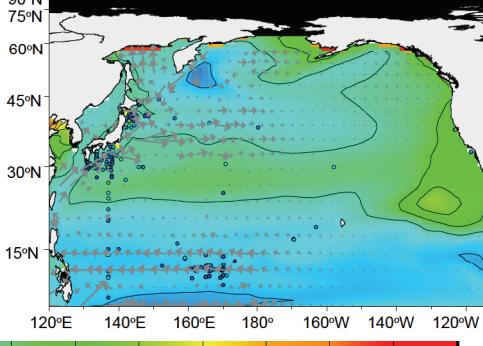
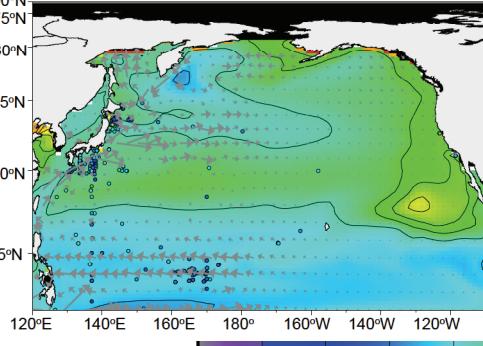


Fig. D2b Horizontal distribution of MRICs in surface seawater from 1970 to 1980.

Details are same as in Fig. D2a. Note that the colour scale is different from Fig. D2a.

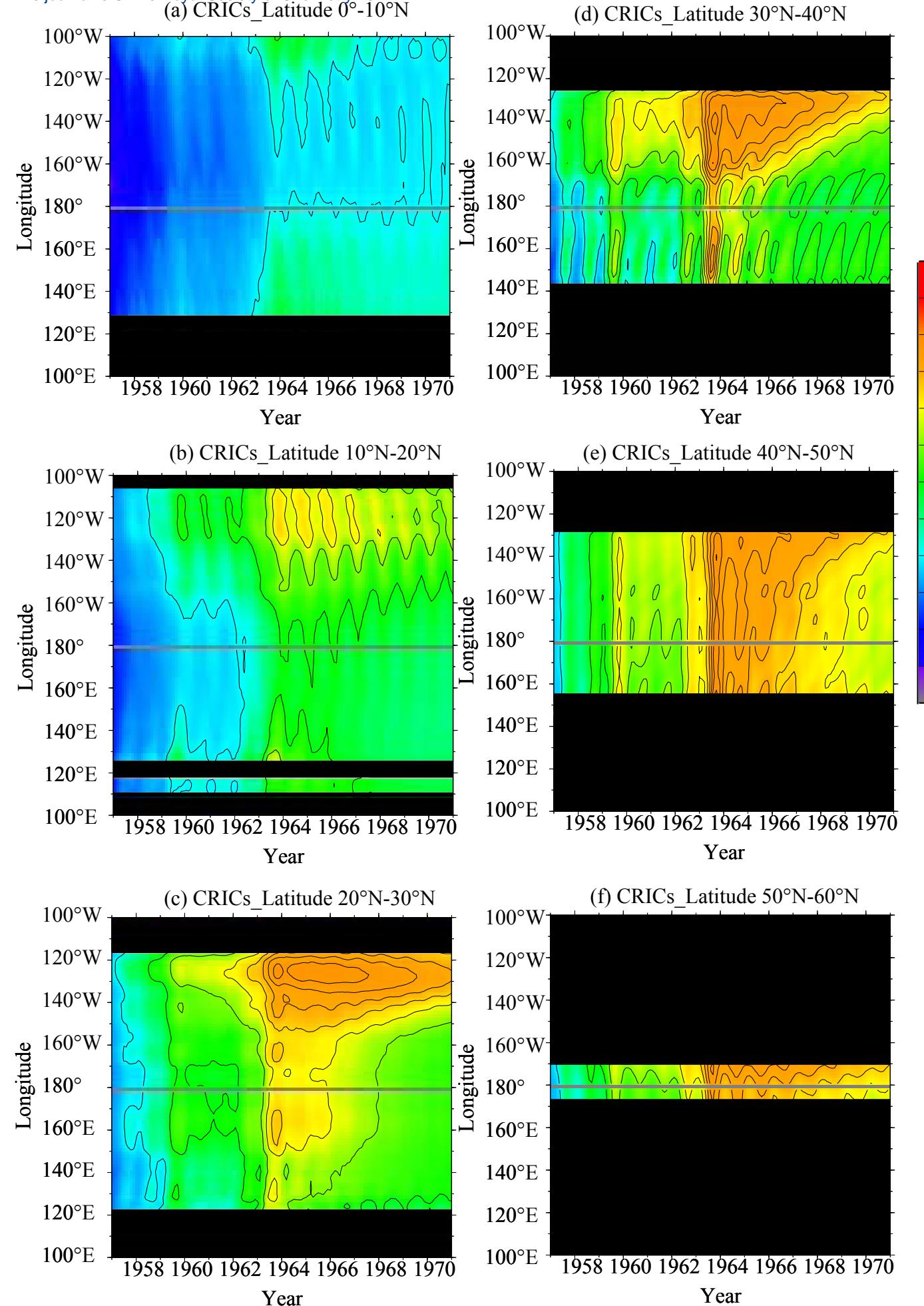


Fig. D3a Time -longitude cross sections of CRICs in the North Pacific Ocean. The units of the colour scale are Bq m^{-3} .

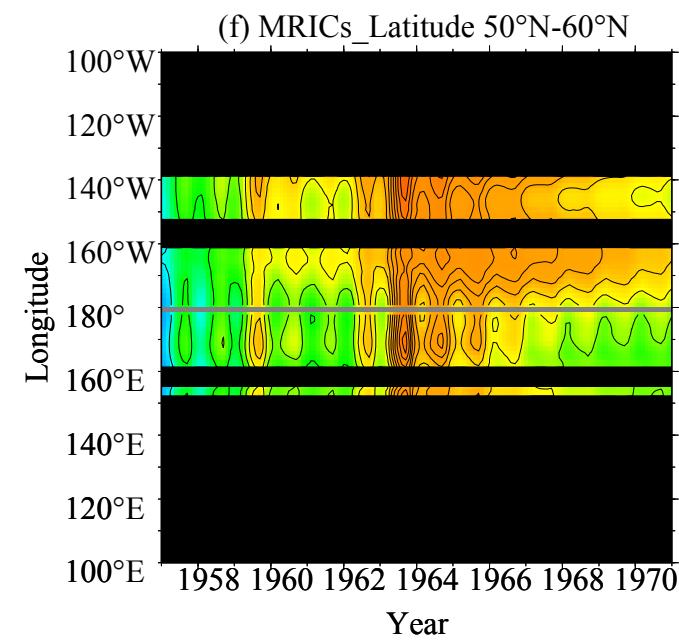
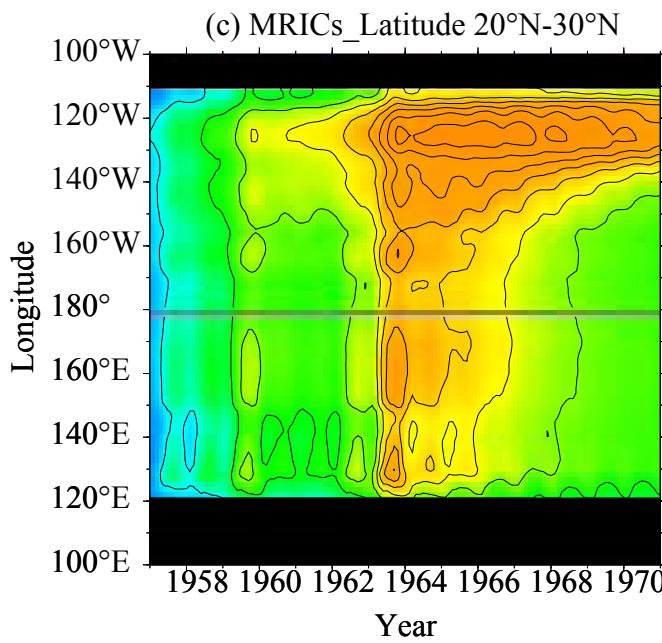
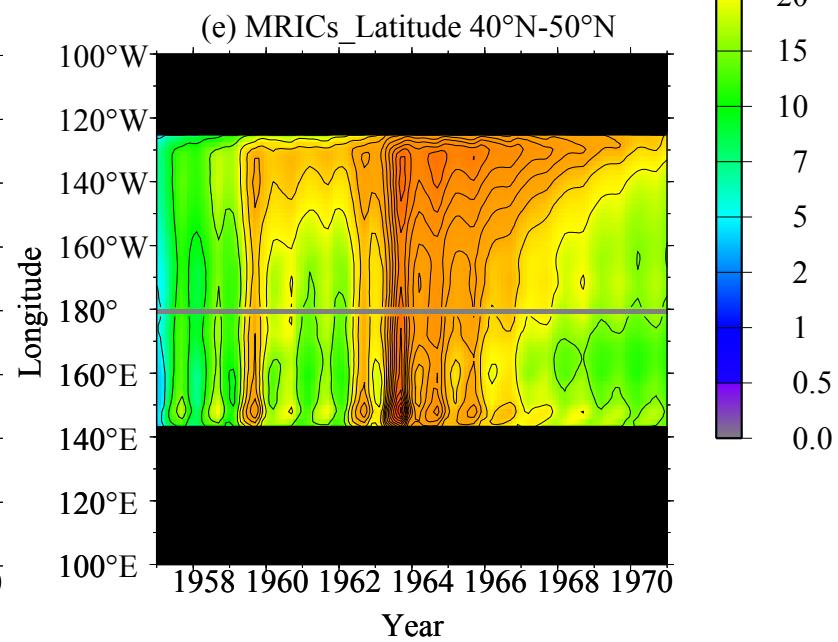
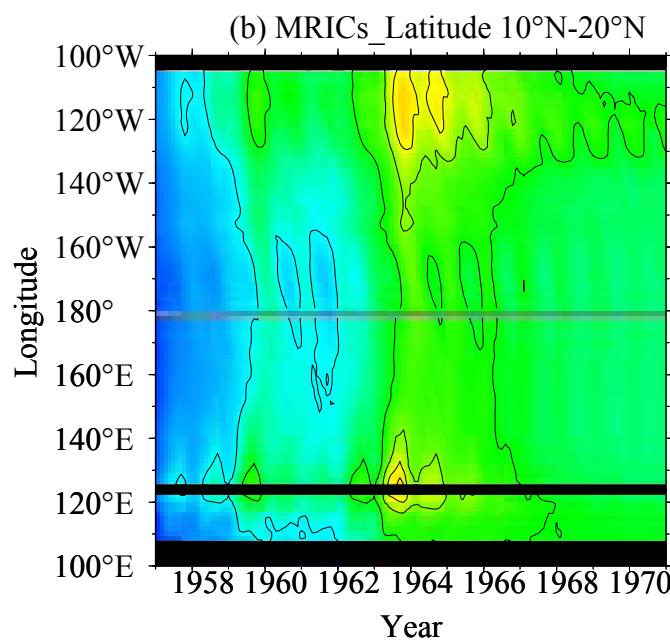
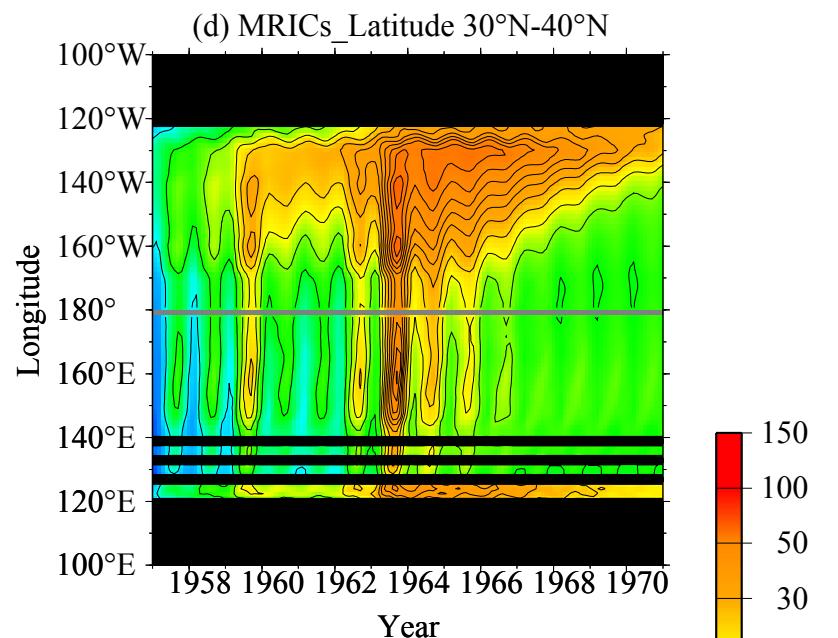
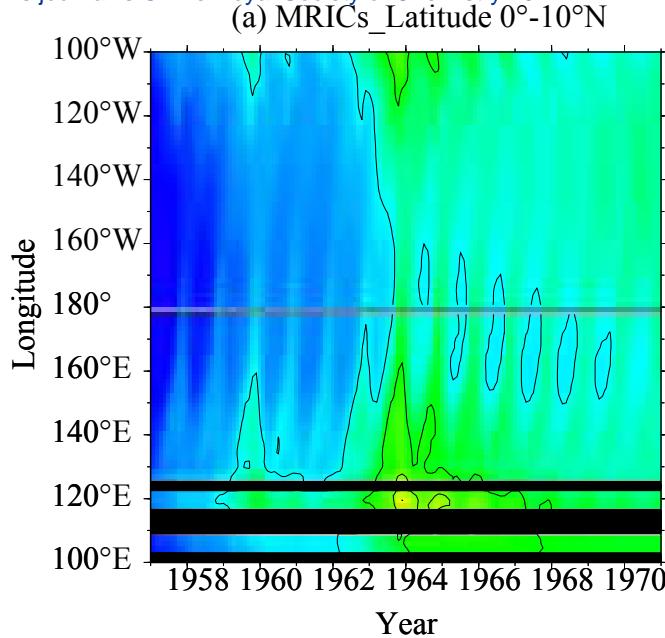


Fig. D3b Time-longitude cross sections of MRICs in the North Pacific

Ocean. The units of the colour scale are Bq m^{-3} .

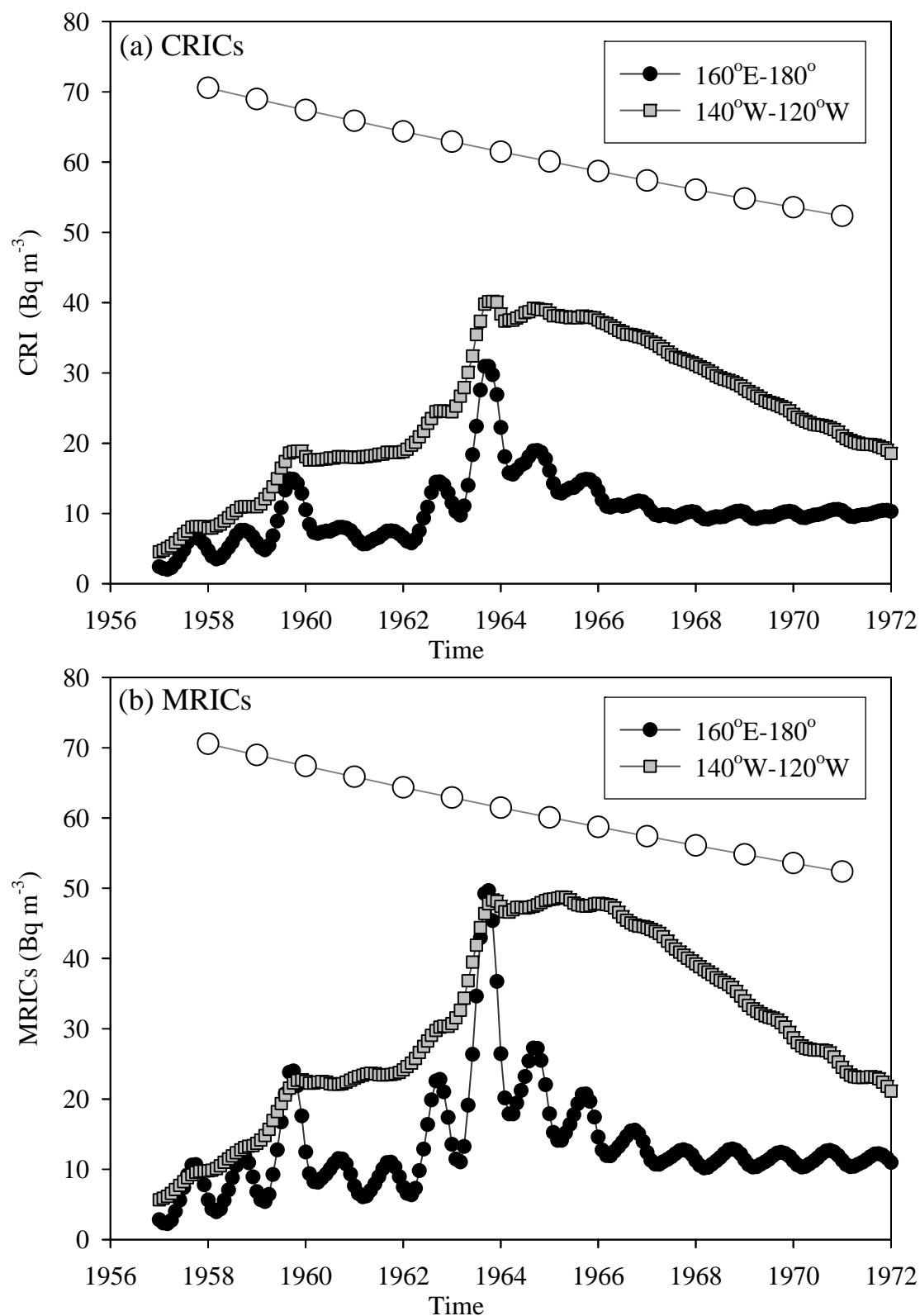


Fig. D4 Temporal variations of simulated ^{137}Cs concentration at $30^\circ\text{N}-40^\circ\text{N}$ along $160^\circ\text{E}-180^\circ$ and $140^\circ\text{W}-120^\circ\text{W}$. The white circles with the line indicate the radioactive decay of ^{137}Cs . (a) CRICs, (b) MRICs.

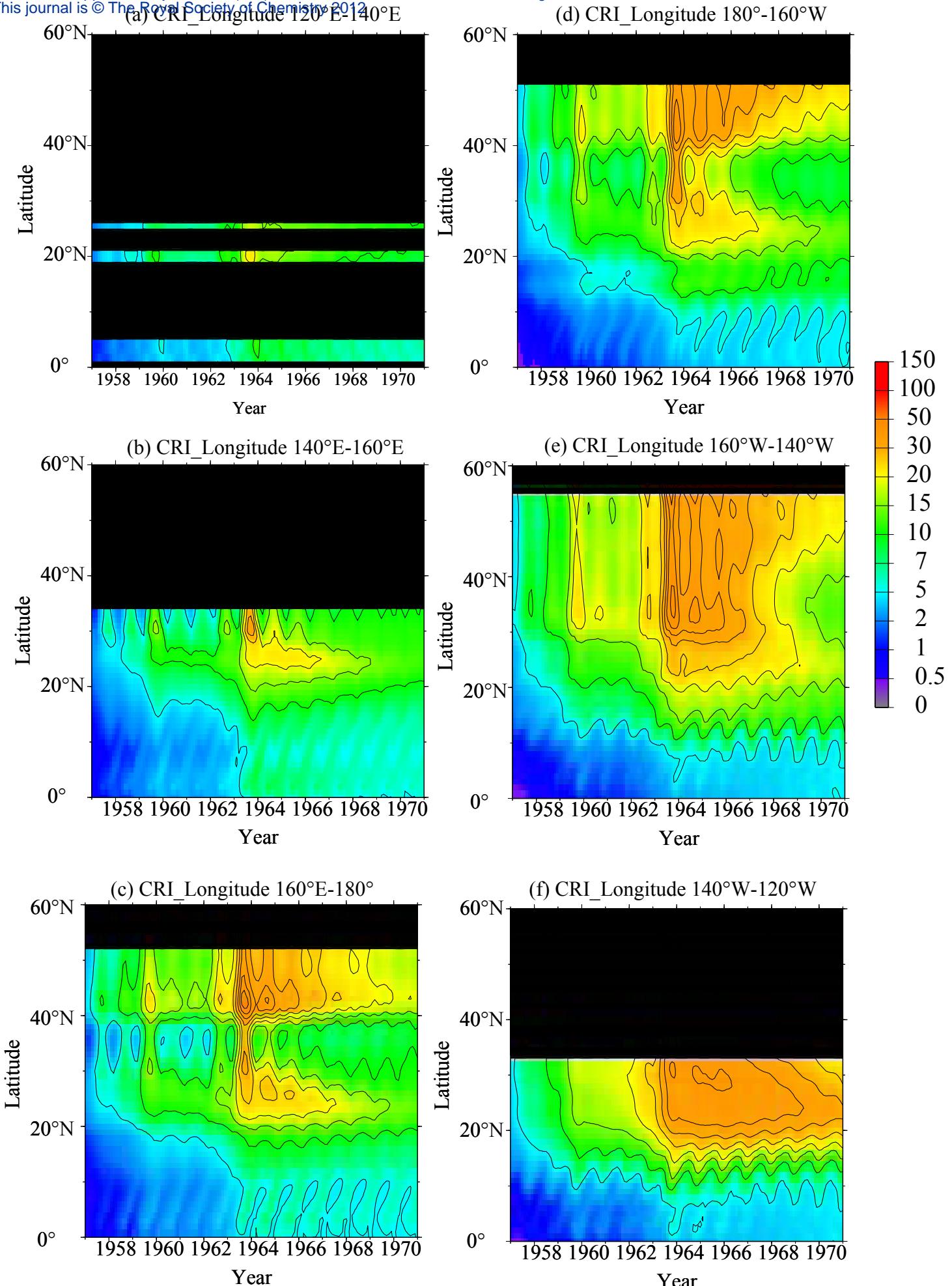


Fig. D5a Time-latitude cross sections of CRICs in the North Pacific Ocean. The units of the colour scale are Bq m⁻³.

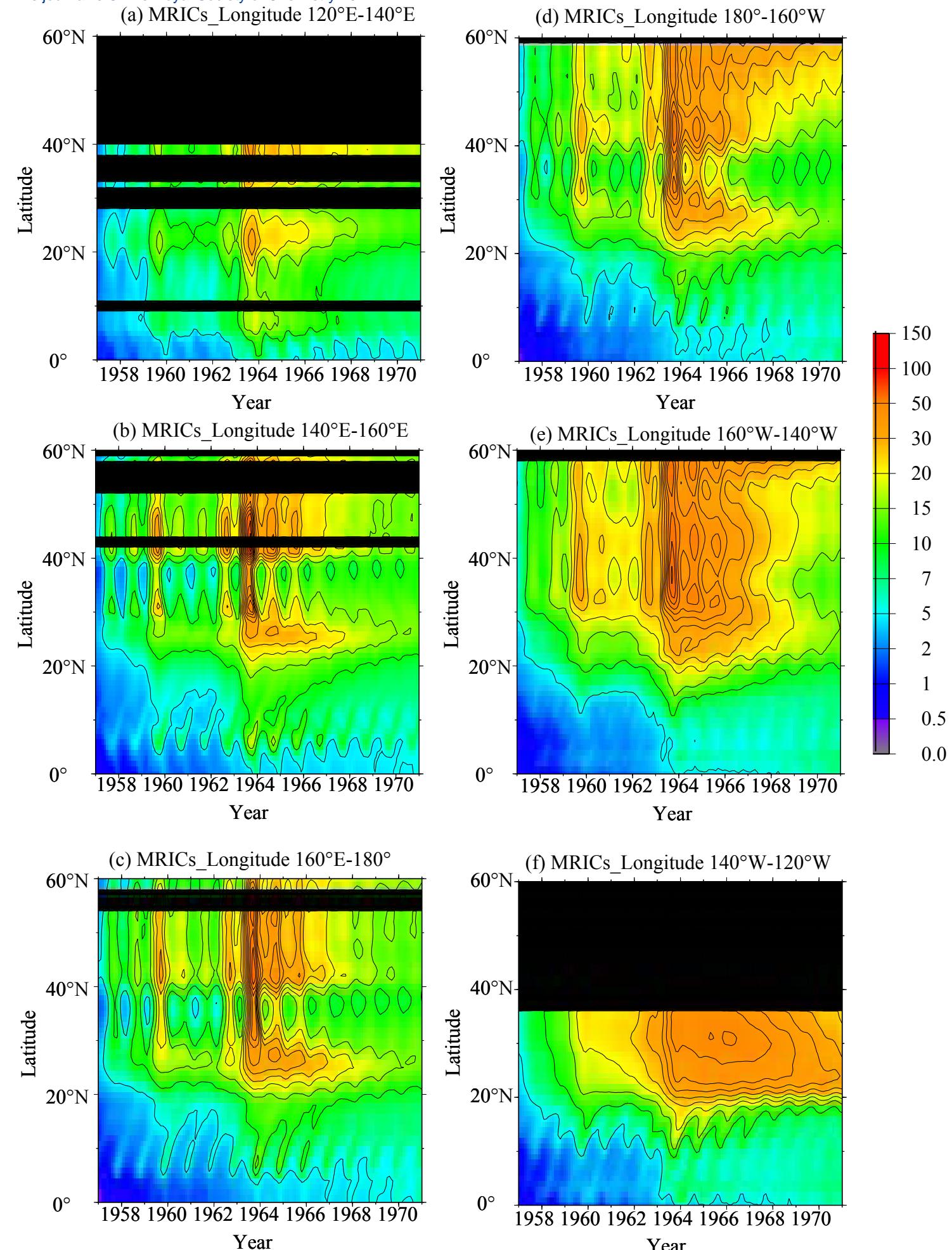


Fig. D5b Time-latitude cross sections of MRICs in the North Pacific Ocean. The units of the colour scale are Bq m^{-3} .

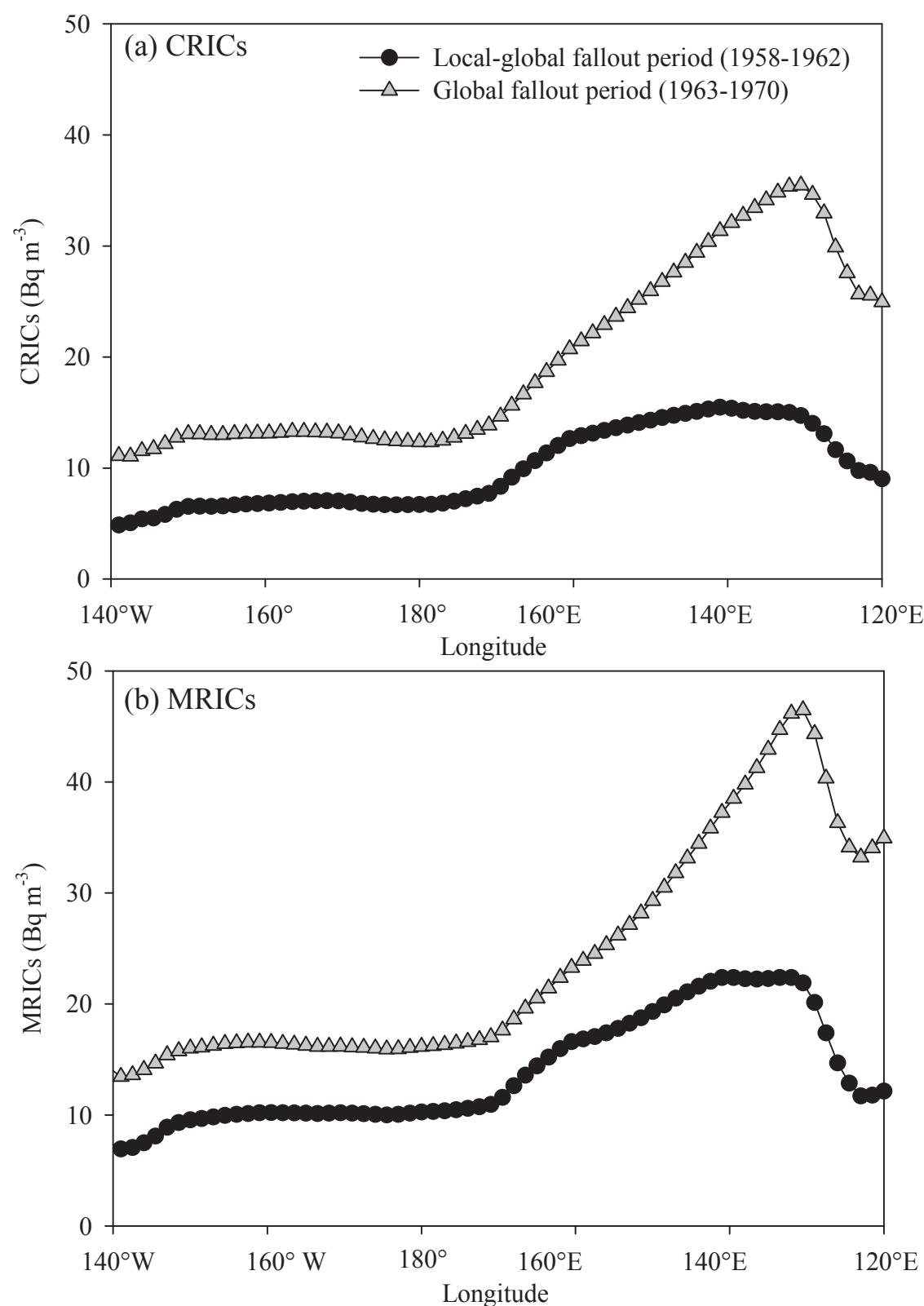


Fig. D6 Longitudinal distributions of simulated ^{137}Cs concentration at 30°N - 40°N due to local-global fallout (1958-1962) and global fallout (1963-1970). (a) CRICs, (b) MRICs.

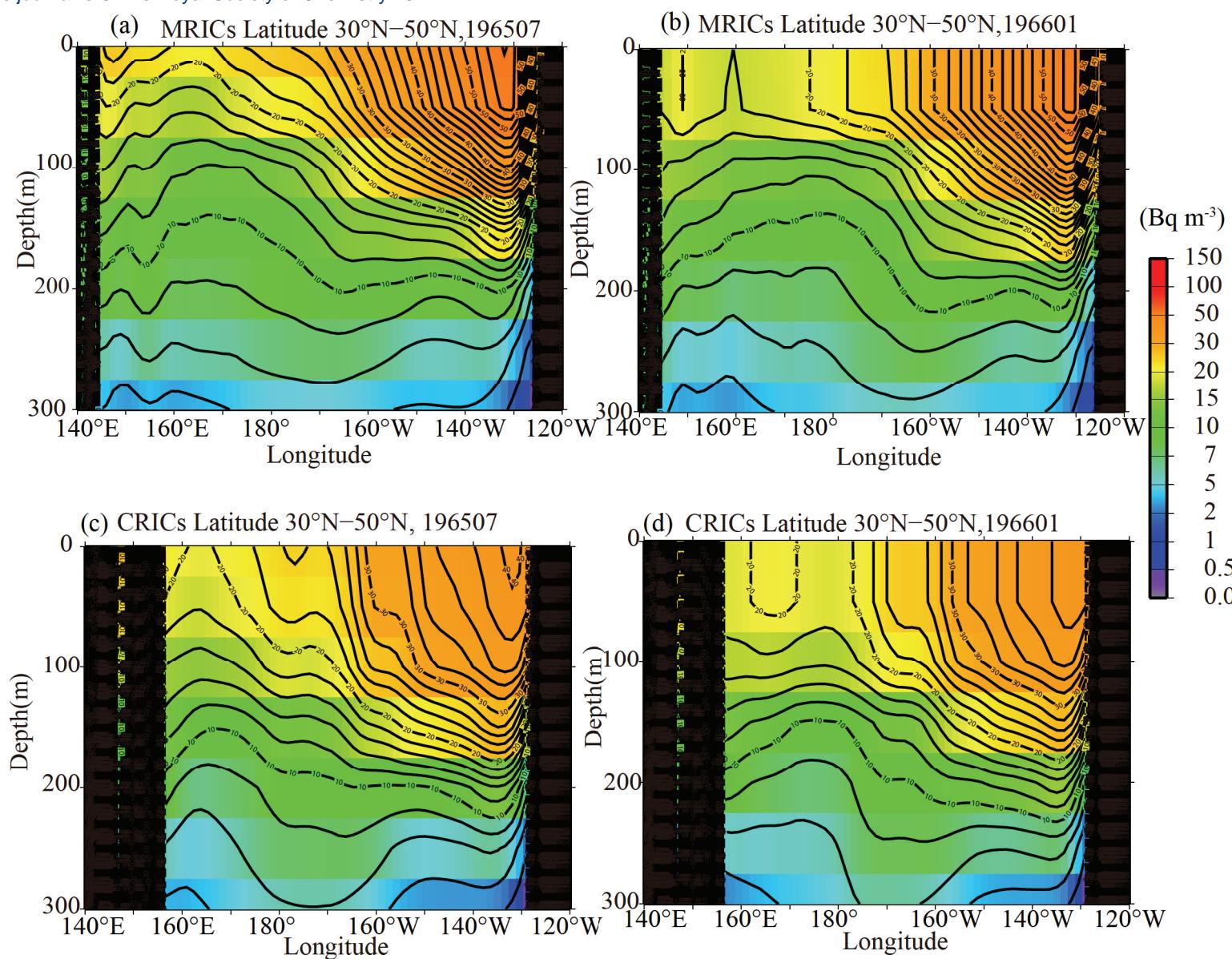


Fig. D7 Comparison of seasonal differences in longitude-depth cross sections of MRICs and CRICs. (a) MRICs, July 1965, (b) MRICs, January 1966, (c) CRICs, July 1965, (d) MRICs, January 1966.