



# CIRCUMPOLAR MAP

EXHIBITING THE

INTER-OCEANIC CIRCULATION, as suggested in his report on the KURO-SIWO in 1855-6,

(See U.S. Japan Expedition Vol. II, Pag. 369 & 370)

and to illustrate Addresses upon the

THERMOMETRIC GATEWAYS to the POLE in 1868, and the "THERMAL PATHS to the POLE" in 1872

BY

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## EXPLANATIONS:

The Red Coloring indicates Warm Water.  
 " Blue " " Ice & cold Water.  
 " Arrows show the direction of Currents.