

The Earth's Dynamic Cryosphere and the Earth System

Supplemental Cryosphere Notes*

1 The Earth System

By Richard S. Williams, Jr.¹

2 Global Hydrologic Cycle

By Thomas G. Huntington,¹² and
Richard S. Williams, Jr.¹

3 Glaciers

By Richard S. Williams, Jr.,¹ Jane G. Ferrigno,²
Bruce H. Raup,¹⁴ and Jeffrey S. Kargel¹⁵

4 Global Snow Cover

By Dorothy K. Hall,³ and David A. Robinson⁴

5 Floating Ice (Sea Ice; Lake Ice and River Ice)

Sea Ice

By Claire L. Parkinson,³ and Donald J. Cavalieri³

Lake Ice and River Ice

By Martin O. Jeffries,⁵ Kim Morris,⁵ and
Claude R. Duguay⁶

6 Permafrost and Periglacial Environments

By J. Alan Heginbottom,⁸ Jerry Brown,⁷
Ole Humlum,⁹ and Harald Svensson¹⁰

7 Glacier Mass Changes and Their Effect on the Earth System (Sea Level)

By Mark B. Dyurgerov¹¹ (Deceased, 2009) and
Mark F. Meier¹¹ (Deceased, 2012)

8 Ice Cores, High-Mountain Glaciers, and Climate

By Lonnie G. Thompson¹³

*The 8 Supplemental Cryosphere Notes accompany Plate 1—Earth's Dynamic Cryosphere

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