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38. V. Guth, J. Brambora : Poznámky k dílu J. A. Komenského : O vycházení a zapadání přednějších hvězd oblohy osmé (Vybrané spisy J. A. Komenského, Svaz V. 69-69 , St. Ped. nakl. 1968).
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42. P. Lála : Programma dlja vyčislenija efemerid ISZ, Vabljudenija iskusstvennyh sputnikov Zemli No. 7 (1967), s.175, Sofia.
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51. M. Šimek, B. A. McIntosh : Meteor Mass Distribution from Underdense-Trail Echoes, Physics and Dynamics of Meteors, Dordrecht 1968, p. 362
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51 (1968), 51
71. F. Link : Refractions astronomiques en Pic-du-Midi, Space Res.  
VIII. (1968) 1069
72. F. Link : Variations climatiques et solaires dans le passé  
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73. L. Webřová, R. Weber : Station de l'Henre a'Prague, Sér. 4,  
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