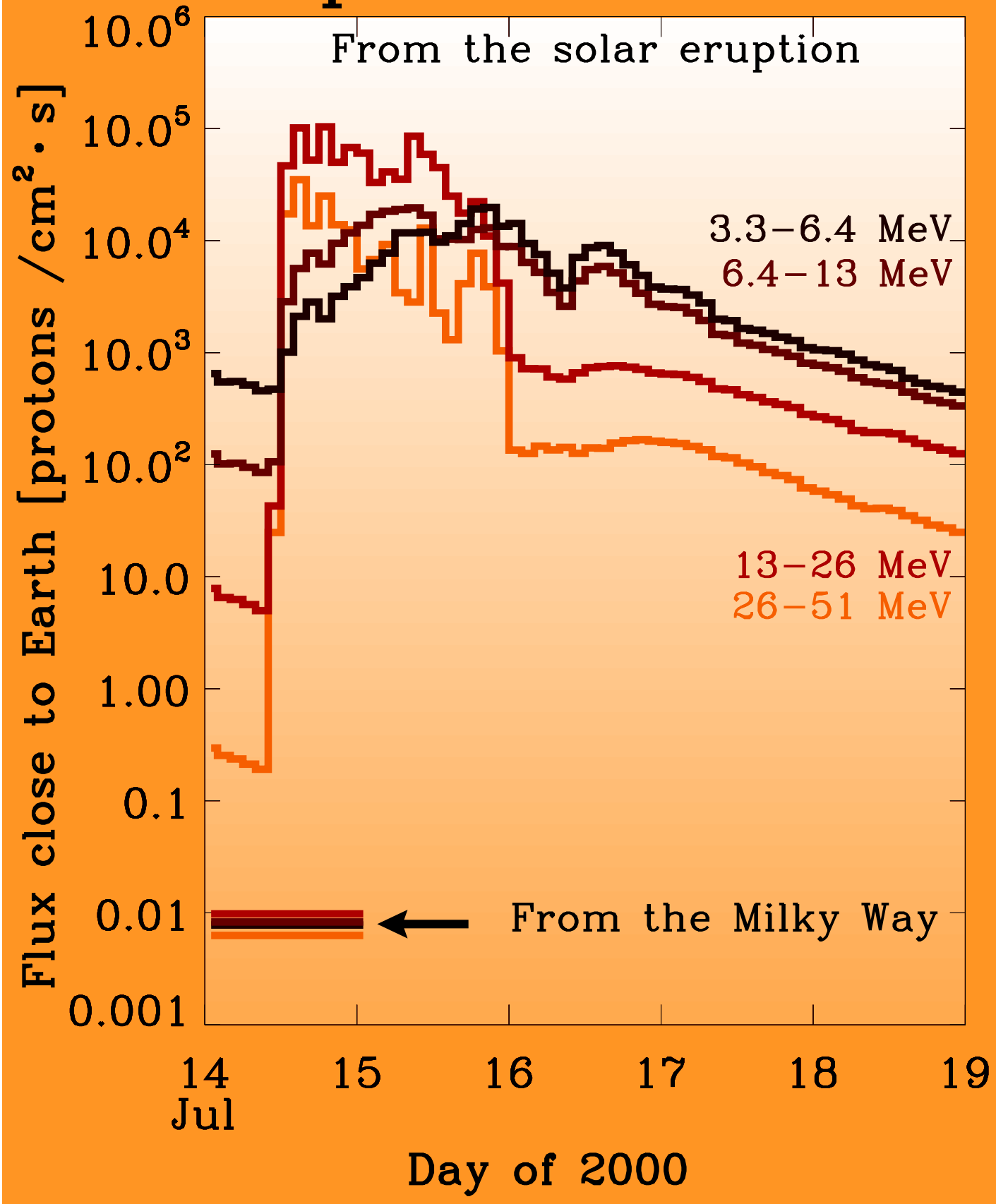High velocity proton flux