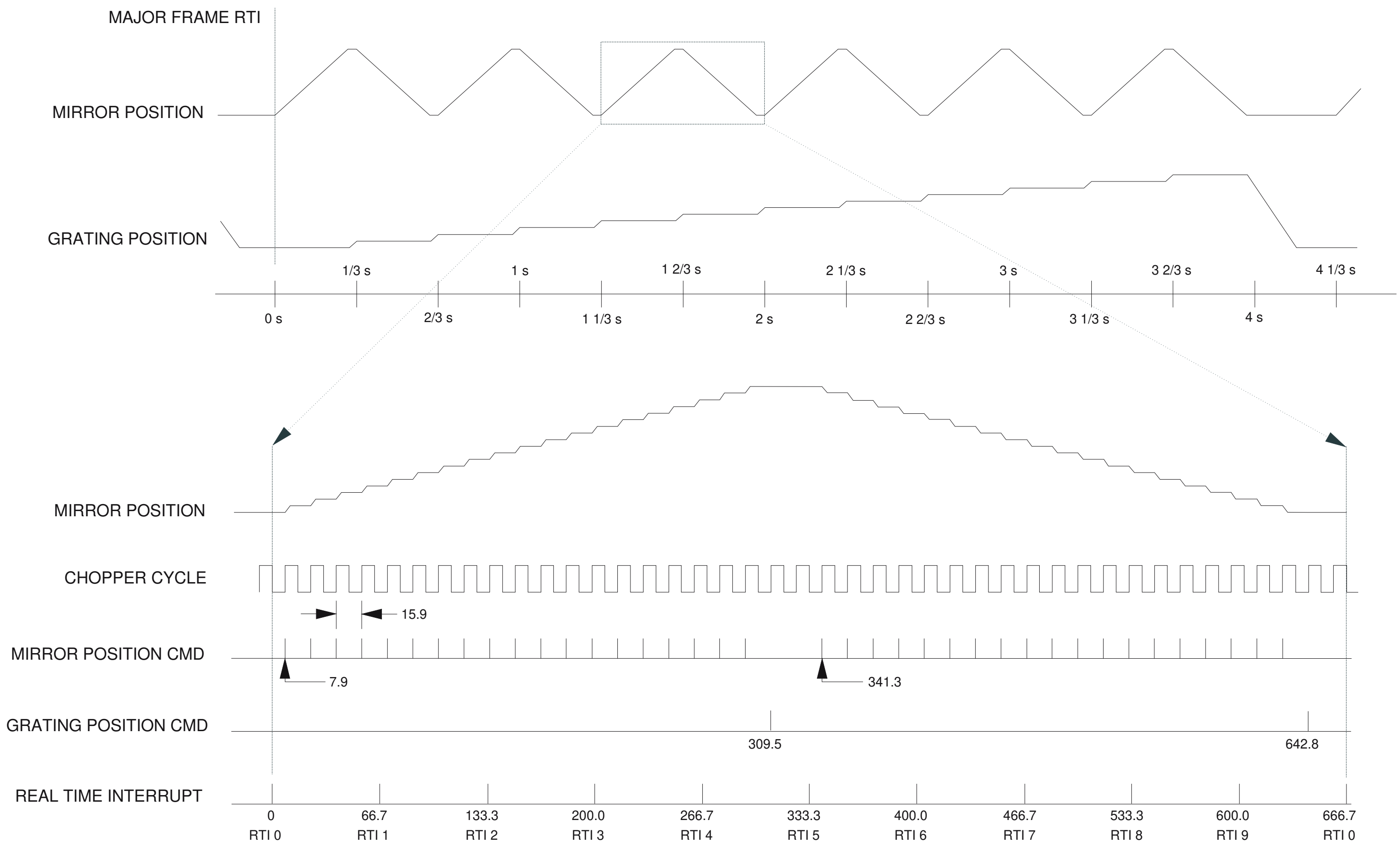

Fig. 10. Instrument Timing.

This timing diagram is representative of most NIMS modes, and particularly describes the the FULL MAP mode, which has 12 grating positions and a grating-flyback period, all occuring during a period of 4 1/3 sec (or 6 1/2 minor frames). During the grating flyback, the mirror

rests, so that the next spectral cycle has the same mirror motion for the same wavelengths. The mirror scan consists of 20 positions, each corresponding to a single chopper cycle of 1/63 sec duration. During the dark cycle of a chopper cycle, the mirror steps from one position to the next. At the end of a mirror scan, the mirror is stationary for one cycle, during which the grating steps to a new position.