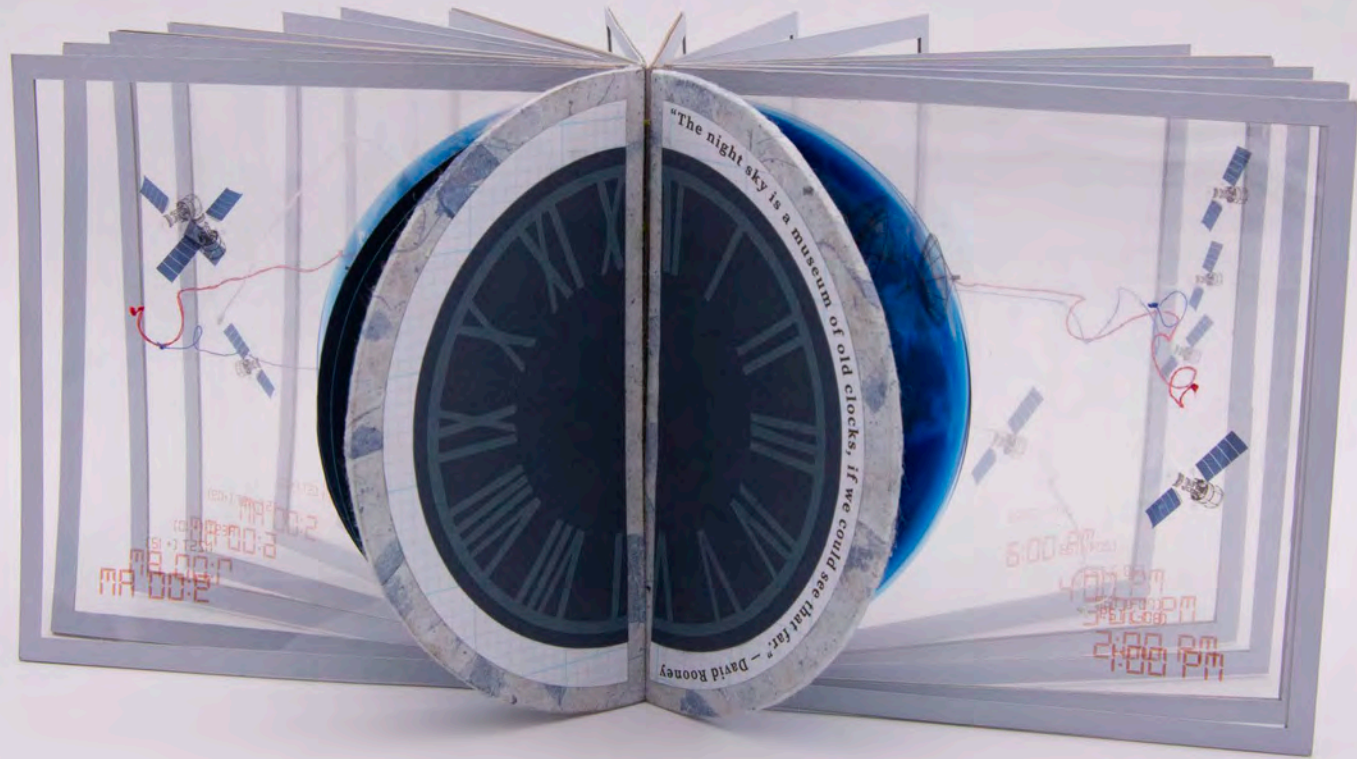


RST (+04)

1:00 AM



"The night sky is a museum of old clocks, if we could see that far." - David Rooney

In addition to longitude, latitude, and altitude, the Global Positioning System (GPS) provides a critical fourth dimension – time. Each GPS satellite contains multiple atomic clocks that contribute time data to the GPS signals. Atomic clocks in GPS satellites keep time to within three nanoseconds—three-billionths of a second. GPS receivers decode these signals, effectively synchronizing each receiver to the atomic clocks. This enables users to determine the time to within 100 billionths of a second, without the cost of owning and operating atomic clocks.