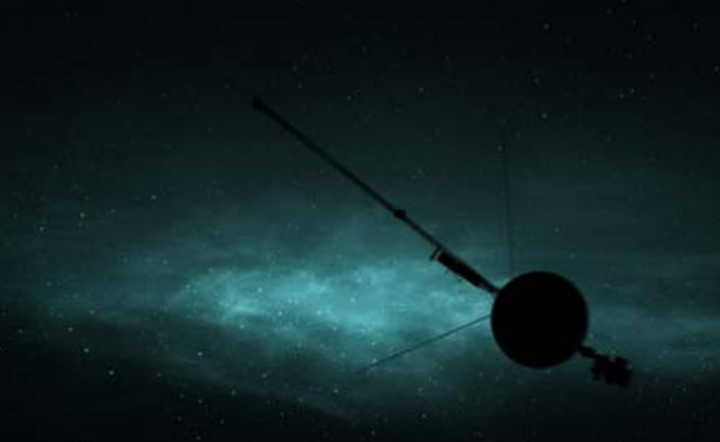




Jet Propulsion Laboratory
California Institute of Technology



Voyager Interstellar Mission Status

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Outer Heliosphere Workshop, 23 July 2021

Mission Status

22 July 2023

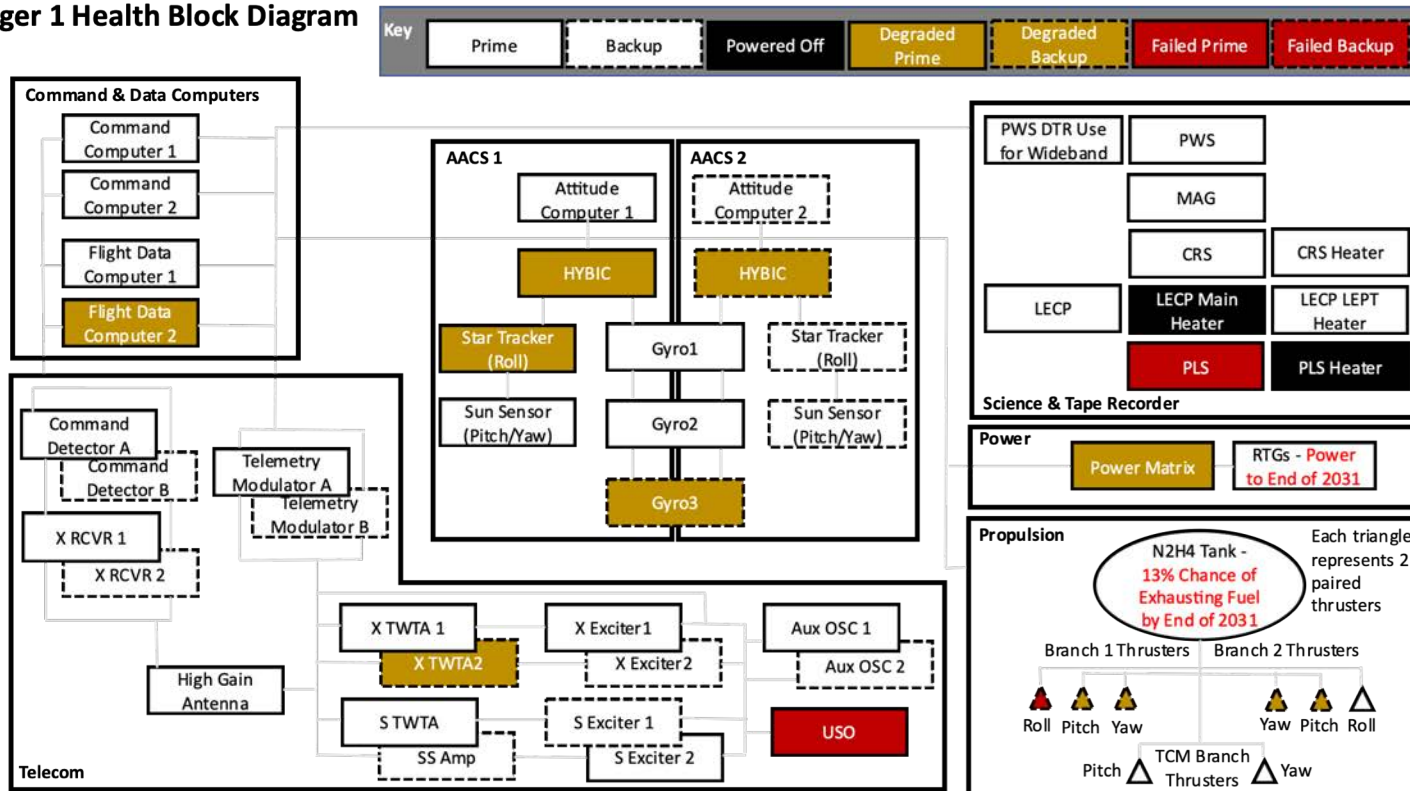
	Voyager 1	Voyager 2
Launch Date	Mon, 05 Sept 1977 12:56:00 UTC	Sat, 20 Aug 1977 14:29:00 UTC
Mission Elapsed Time	43: 10: 17: 10: 30: 38 YRS MOS DAYS HRS MINS SECS	43: 11: 02: 08: 57: 38 YRS MOS DAYS HRS MINS SECS
Distance from Earth	14,211,744,378 mi	11,789,258,726 mi
	152.88715350 AU	126.82652886 AU
Distance from Sun	14,267,952,709 mi	11,863,317,373 mi
	153.49183168 AU	127.62323723 AU
Velocity with respect to the Sun (estimated)	38,026.77 mph	34,390.98 mph
One-Way Light Time	21:11:31 (hh:mm:ss)	17:34:47 (hh:mm:ss)
Cosmic Ray Data		

IMP MET

<https://voyager.jpl.nasa.gov/>

Voyager 1 Subsystem Status

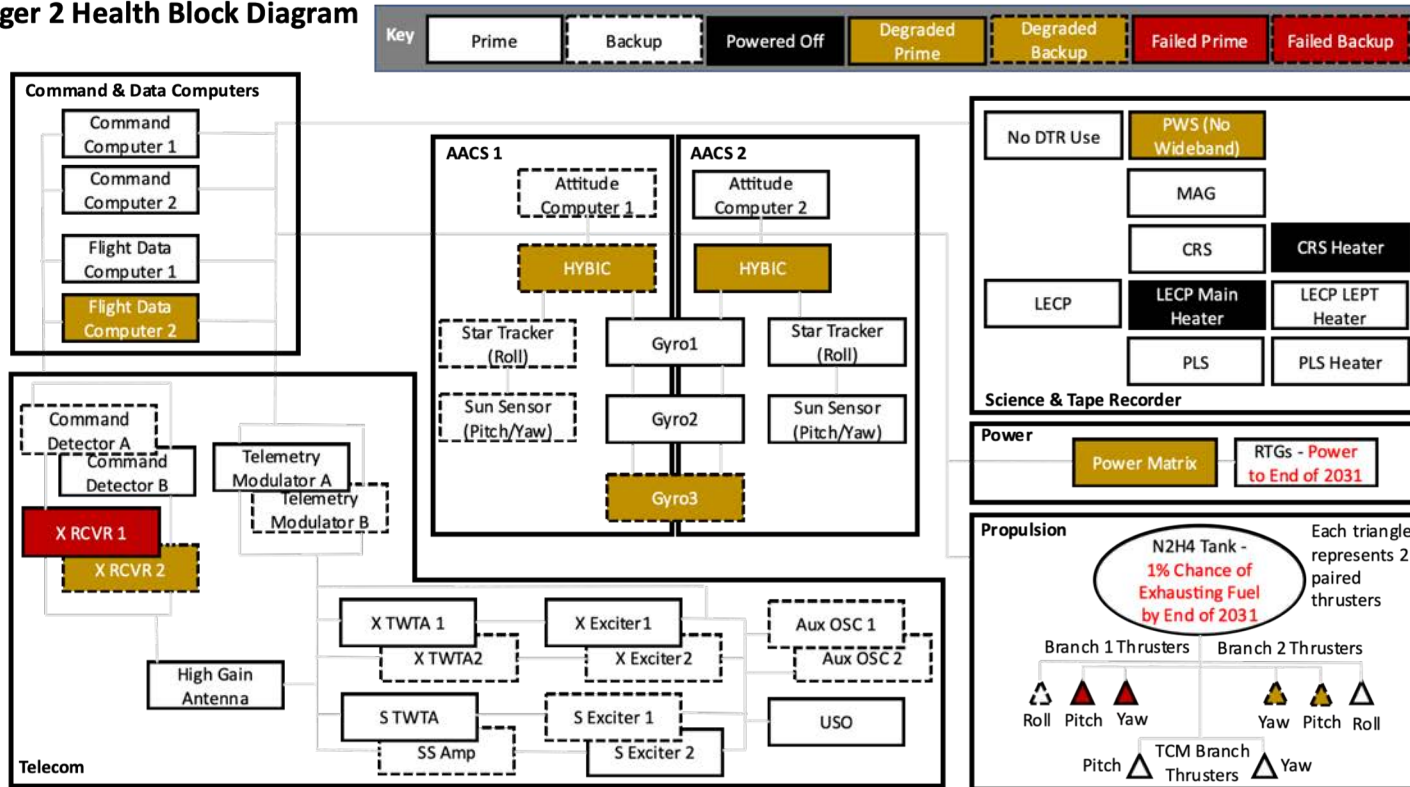
Voyager 1 Health Block Diagram



Waggoner -1/21

Voyager 2 Subsystem Status

Voyager 2 Health Block Diagram

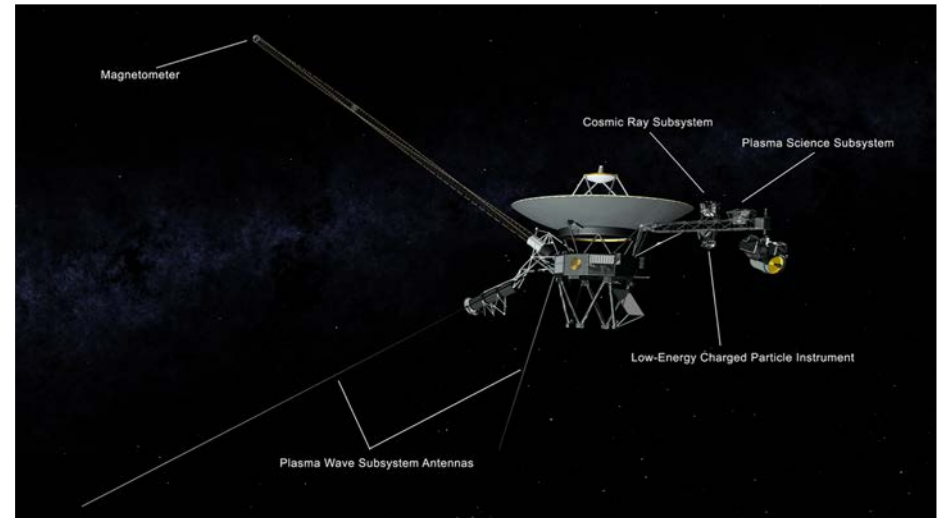


Waggoner -1/21

Instrument Power Offs

(accuracy is no better than +/- 6 months)

- Science Team will decide instrument power off order. Reviewing status at each SSG meeting (~every 6 months). Estimated dates as follows.
- Voyager 1:
 - LECP Power Off – mid 2023
 - CRS Power Off – mid 2024
 - PWS WFR and DTR off – early 2026
 - PWS or MAG – End of Mission
- Voyager 2:
 - PLS Heater Off – October 2021
 - CRS Off – mid 2022
 - LECP Off – early 2024
 - PLS Off – mid 2025
 - PWS or MAG – End of Mission

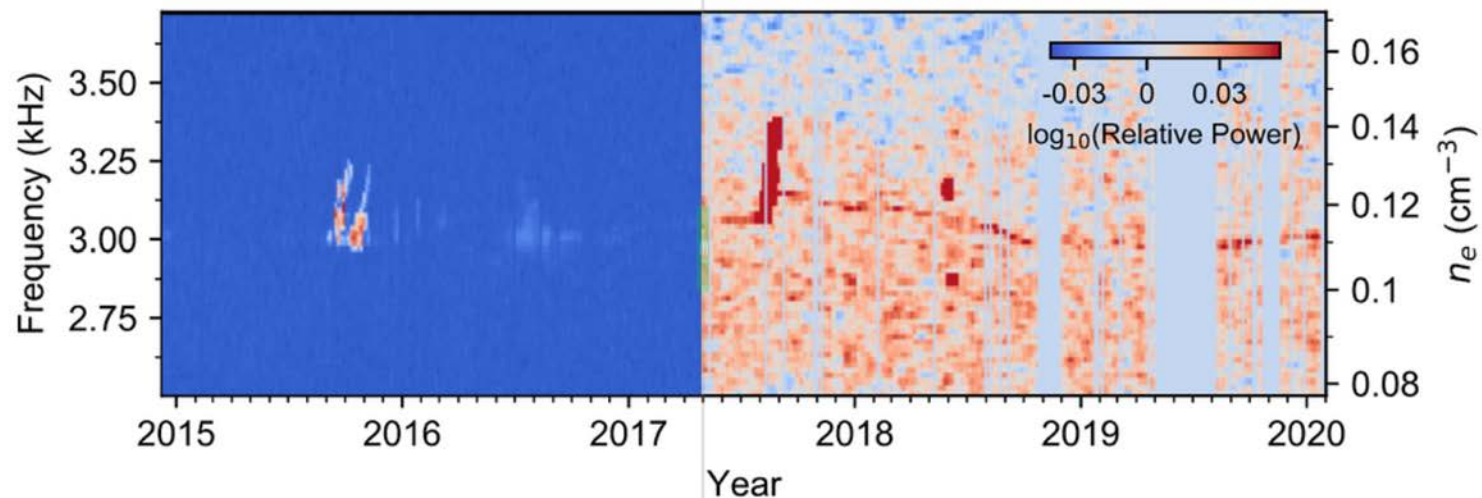


Recent Science Highlight

A Nature Astronomy Article entitled “**Persistent plasma waves in interstellar space detected by Voyager 1**” was published May 10. The paper presents the detection of a class of very weak, narrowband plasma wave emission in the Voyager 1 data that persists from 2017 onwards. See

<https://www.nature.com/articles/s41550-021-01363-7> and

<https://www.nasa.gov/feature/goddard/2021/as-nasa-s-voyager-1-surveys-interstellar-space-its-density-measurements-are-making-waves>



S. Dodd, Outer Heliosphere Workshop, 23 July 2021



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