

**Iridium Data Message Description:** Data message sent after completion of flux calculations. Message has a total 43 of comma separated ASCII fields . A description of all fields follows.

1	2	3
Start time of data record in seconds 1392112800.000. Average time of collected data can be found by adding 600 seconds to the start time.	Flux Processing Version	Status (6 character hex value WRAOCF) W-Wind Status R – Rates Status A – Acceleration Status O – Heading, Pitch, Roll status C – Conditions F – Flux calculation status
Double	Float	Int

4	5	6	7	8	9	10	11
Avg Wind U	Avg Wind V	Avg Wind W W	Avg Air Temp	Spec Hum Q	Acc X A <sub>x</sub>	Acc Y A <sub>y</sub>	Acc Z A <sub>z</sub>
m/s	m/s	m/s	°C	g/Kg	m/s <sup>2</sup>	m/s <sup>2</sup>	m/s <sup>2</sup>
float	float	float	float	float	float	float	float

12	13	14	15	16	17	18	19	20
Rate X $\dot{\phi}$	Rate Y $\dot{\theta}$	Rate Z $\dot{\psi}$	Heading $\psi$	Pitch $\theta$	Roll $\phi$	U Corrected U <sub>cor</sub>	V Corrected V <sub>cor</sub>	W Corrected W <sub>cor</sub>
rad/s	rad/s	rad/s	rad	rad	rad	m/s	m/s	m/s
float	float	float	float	float	float	float	float	float

21	22	23	24	25	26
Std U Corrected $\sigma_{u\text{cor}}$	Std V Corrected $\sigma_{v\text{cor}}$	Std W Corrected $\sigma_{w\text{cor}}$	Wind Speed S	Momentum Flux Corrected uw	Momentum Flux Corrected vw
m/s	m/s	m/s	m/s	m <sup>2</sup> /s <sup>2</sup>	m <sup>2</sup> /s <sup>2</sup>
float	float	float	float	float	Float

27	28	29	30	31	32	33
Buoyance Flux wT <sub>s</sub>	Latent Heat Flux wp <sub>v</sub>	Significant Wave Height $\sigma_H$	DiagVal1	DiagVal2	CO2Raw	H2ORaw
m/s °C	g/m <sup>2</sup> s	m				
float	float	float	float	float	float	float

34	35	36	37	38	39
Avg CO2D	Avg H2OD	Avg H2OG	Avg Pres	Avg Cooler	Avg CO2SS
float	float	float	float	float	float

40	41	42	43	44	45
Avg H2OAW	Avg H2OAW	Avg CO2AW	Avg CO2AWO	Washer Flag	Battery Voltage
Unsigned int	Unsigned int	Unsigned int	Unsigned int	Unsigned int	float