

STARS-II CW Format

1 s t  l i n e ( C O M )	Letters	<b>S</b>	<b>T</b>	<b>A</b>	<b>R</b>	<b>S</b>	<b>2</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>
	Order of character	1	2	3	4	5	6	7	8	9	10	11	12
	Form	ASCII	ASCII	ASCII	ASCII	ASCII	ASCII	ASCII	ASCII	ASCII	ASCII	ASCII	ASCII
	Bit												
Content	Satellite name						Call sign						

2 n d  l i n e ( C & D H )	Letters	<b>M</b>	<b>2</b>		<b>A<sub>5</sub></b>	<b>A<sub>4</sub></b>		<b>A<sub>3</sub></b>	<b>A<sub>2</sub></b>		<b>A<sub>1</sub></b>	<b>A<sub>0</sub></b>		<b>B<sub>1</sub></b>	<b>B<sub>0</sub></b>
	Order of character	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	Form	ASCII	ASCII		Hexadecimal	Hexadecimal		Hexadecimal	Hexadecimal		Hexadecimal	Hexadecimal		Hexadecimal	Hexadecimal
	Bit				3 2 1 0	3 2 1 0		3 2 1 0	3 2 1 0		3 2 1 0	3 2 1 0		3 2 1 0	3 2 1 0
Content	ID Mother:M Daughter:D	Line No.	space	Time①		space	Time②		space	Time③		space	Satellite status		
	Variable letters														

3 r d  l i n e ( C O M )	Letters	<b>M</b>	<b>3</b>		<b>C<sub>1</sub></b>	<b>C<sub>0</sub></b>		<b>D<sub>1</sub></b>	<b>D<sub>0</sub></b>		<b>E<sub>1</sub></b>	<b>E<sub>0</sub></b>		<b>F<sub>1</sub></b>	<b>F<sub>0</sub></b>
	Order of character	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	Form	ASCII	ASCII		Hexadecimal	Hexadecimal		Hexadecimal	Hexadecimal		Hexadecimal	Hexadecimal		Hexadecimal	Hexadecimal
	Bit				3 2 1 0	3 2 1 0		3 2 1 0	3 2 1 0		3 2 1 0	3 2 1 0		3 2 1 0	3 2 1 0
Content	ID Mother:M Daughter:D	Line No.	space	RSSI		space	Solar cell voltage		space	Total voltage		space	Total system current		

4 t h  l i n e ( C & D H )	Letters	<b>M</b>	<b>4</b>		<b>G<sub>1</sub></b>	<b>G<sub>0</sub></b>		<b>H<sub>1</sub></b>	<b>H<sub>0</sub></b>		<b>0</b>	<b>0</b>		<b>I<sub>1</sub></b>	<b>I<sub>0</sub></b>
	Order of character	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	Form	ASCII	ASCII		Hexadecimal	Hexadecimal		Hexadecimal	Hexadecimal		Hexadecimal	Hexadecimal		Hexadecimal	Hexadecimal
	Bit				3 2 1 0	3 2 1 0		3 2 1 0	3 2 1 0		3 2 1 0	3 2 1 0		3 2 1 0	3 2 1 0
Content	ID Mother:M Daughter:D	Line No.	space	Mode		space	Reset times of COM		space	N/A		space	Receiving times of C&DH		
	Variable letters														

5 t h  l i n e ( C O M )	Letters	<b>M</b>	<b>5</b>		<b>J<sub>1</sub></b>	<b>J<sub>0</sub></b>		<b>K<sub>1</sub></b>	<b>K<sub>0</sub></b>		<b>L<sub>1</sub></b>	<b>L<sub>0</sub></b>		<b>M<sub>1</sub></b>	<b>M<sub>0</sub></b>
	Order of character	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	Form	ASCII	ASCII		Hexadecimal	Hexadecimal		Hexadecimal	Hexadecimal		Hexadecimal	Hexadecimal		Hexadecimal	Hexadecimal
	Bit				3 2 1 0	3 2 1 0		3 2 1 0	3 2 1 0		3 2 1 0	3 2 1 0		3 2 1 0	3 2 1 0
Content	ID Mother:M Daughter:D	Line No.	space	COM(Receiver) Voltage		space	C&DH Voltage		space	Camera Voltage		space	Li-ion battery Voltage		

6 t h  l i n e ( C & D H )	Letters	<b>M</b>	<b>6</b>		<b>N<sub>1</sub></b>	<b>N<sub>0</sub></b>		<b>O<sub>1</sub></b>	<b>O<sub>0</sub></b>		<b>P<sub>1</sub></b>	<b>P<sub>0</sub></b>		<b>Q<sub>1</sub></b>	<b>Q<sub>0</sub></b>
	Order of character	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	Form	ASCII	ASCII		Hexadecimal	Hexadecimal		Hexadecimal	Hexadecimal		Hexadecimal	Hexadecimal		Hexadecimal	Hexadecimal
	Bit				3 2 1 0	3 2 1 0		3 2 1 0	3 2 1 0		3 2 1 0	3 2 1 0		3 2 1 0	3 2 1 0
Content	ID Mother:M Daughter:D	Line No.	space	Solar cell Current		space	Solar cell Voltage		space	Total system Current		space	Total Voltage		
	Variable letters														