

IBEX Sat Sum

S/C Time

2017:350:20:36:39



SC STATE

SCIENCE

ACS LOW RATE

NORMAL

QUATERNION

FC

HMLLOGS

18 Day Timer 6640

ACS 3 **EPS** 9002 **FC** 3/4

Up Times: 11522392 8349469 18761985

SSR Write pointer: 47786

SSR Read pointer: 34263

Remaining Blks: 0

BO-Bfr %Full 100.00

GREEN: UPPER BIT
YELLOW: LOWER BIT

ACT **ECT** **FCT**

RF

DL Rate: 2K

Timed Cmds Loaded 124

Cmd Cntr 18536

NOOP 10 cmds

STX ON STX OFF

STX Volts: 6.2048

STX Ground: -0.0416

STX Temp: 22.9994

STX On

COH

MZ ant

RECEIVE

Carrier Lock: YES

Bit Lock: YES

Sig Strength: +120.888 dBm

Loop Stress: -2001.97 hz

SRX Temp: 27.3964

Power

BusI -1.65

BusV 15.50

Battery

C1 3.85

C2 3.85

C3 3.83

C4 3.88

8.6 DegC

Chrg Curr: 3.00

Long Eclipse FALSE

Load Shed NORMAL

Load Shed 1 = 3.60V

Load Shed 2 = 3.45V

PHX Reset = 3.00V

ACS

Spin Rate: 4.19499

Nominal Is 4 rpm

Gyro NOT_INHIBITED

Start:

Star Curr: 0.24

FDC Flags 0

0 = all OK

PAYLOAD

PAYLOAD SAFE

CEU **IBEX-HI** **IBEX-LO**

Curr 0.57 **Safed** **Safed**

5V

Last OP Code CEU_MACRO_EXEC

OP Mode HVSCI

Instrument State RUN_FROM_EEPROM

MACRO MACRO_31

BURN

Thr_Ena: OFF

Thrusters FALSE 5N OFF

CatBedHtrs 0 22N OFF

Tank Press MX 107.046 psi

Tank Press PX 107.125 psi

LATCH VALVES

MX LV_OPEN 1

PX LV_OPEN 2

HPS Plug: MATED

IBEX SPIN VECTORS

GPS Time 1197490000

ACS Bdy0 0.5899061

ACS Bdy1

ACS Bdy2 0.45241

ACS Bdy3 0.421503

IBEX ACCS

S/C Time

2017:350:20:36:39

ACS Time
197491807

act_TMCH Subsystem Modes Up Times

Spacecraft State ACS LOW RATE ACS 11522892

SCIENCE NORMAL EPS 8349469

act_TMISOH QUATERINION FC 8761985

Switches Gyro Inhibit

Start: ON NOT INHIBITED

22N Thr OFF Battery SOC

Pct: f: PCT V NORMAL

Spin Rate (Accel) 4.19499 rpm Spin Rate (ST) 4.18992 rpm Fly By Sta FALSE Fly By Gyro FALSE

Sun Angle 1.1505 deg DirCmbdbyAngle 0.705921 deg Point Inertial 1 Point at Sun FALSE

Filter Y Rate (LR) rad/s Filter Y Rate (HR) rad/s Start Current 0.236198 PCMB Current 2.181

MX PX SN 22N

Latch Valves LV_OPEN LV_OPEN Thruster Enabled? FALSE 0

Tank Press 107.046 107.125 Cathed Heater OFF OFF

Tank Temp 19.19 20.3 Time/Cyc Remaining 0

Thr.	On-Time	Valve Temp	Cathed Temp	Temperatures
1	8020	35.74	57.79	Star Tr. 26.4085
2	8144	44.13	65.87	Zone 1 26.96
3	9232	43.14	62.72	Zone 2 32.39
4	9408	43.89	68.62	Zone 3 26.23
+Z	0	53.02	79.8096	Zone 4 18.57
-Z	0	15.24	1.0196	

FDC Resp. 0

ST Att Inv NoLatch FALSE

Nut Ctr Error FALSE

Sun Point Err FALSE

Maneuver Timeout FALSE

Spin Rate Conting FALSE

Spin Rate Red FALSE

Spin Rate Yellow FALSE

Jets Invalidd FALSE

Component Invalidd FALSE

Estimator Invalidd FALSE

Start Pwr Cycle FALSE

Sia Invalidd FALSE

CSS Invalidd FALSE

Gyro Invalidd FALSE

Accel 2 Invalidd FALSE

Accel 1 Invalidd FALSE

ACE HMLLOGS 3

FDC Trigger Totals

Accy HW Read	0
Accz HW Read	0
Accz Zero	0
Gyro HW Read	0
CSS HW Read	0
CSS Magnitude	0
Sun Point Err	0
Sia Invalidd	19025
Sia No Solution	0
Sia No Solution 2	18632
Sia Stale	0
Sia Stale 2	0
Est Update	0
Est Residual	0
Est Math	0
Jet Command	0
Sin Rate Yellow	0
Sin Rate Red	0
Spin Rate Conting	0
Nutation Error	0
Comp Invalidd	0
Mnvr Timeout	0

ADC Timeout 0

Sia Valid	TRUE
Sia Time	Locked
Bright Object	FALSE
Confidence	4
# of Stars	32
Sequence	Fine Tuning
Last Update	1197490000
Ancillary Cnt	3453790
Spin Pulse Cnt	718665
Spin Time	10.7335
CEU Spin Cnt	14.32
Residual[2]	0.000354966
Sia HK Pkt Time	
CCD Temp	
CPU Temp	
SIMPS Temp	
DPU Ext. Temp	26.4085
CCD Voltage	
DAC Gain	
DAC Offset	

AHW STILLM ATT

AHW STILLM HK

Static Z-Rate RPM 4.18998

StarPctValid 77

SpinPulsePro active INACTIVE

SpinPulsePro enable ENABLED

KF_Input_selfSource

STA_PCT_VALID

IBEX Sat Sum

S/C Time

1980:009:05:34:57



PAYLOAD

PAYLOAD SAFE

SC STATE CONTINGENCY

ACS HIGH RATE
NORMAL
MISSION
FC

SSR Write pointer: 47786
SSR Read pointer: 34263
Remaining Blks: 0

BO-Bfr %Full 100.00
GREEN: UPPER BIT
YELLOW: LOWER BIT

CEU IBEX-HI IBEX-LO

HMLOGS 18 Day Timer 6640

ACS 1 EPS 50 FC 1

Up Times: 279770 279771 279769

CEU ON
CURR 9.97 5V
Safed Safed

RF

Timed Cmds Loaded

DL Rate: 2K

124

Cmd Cntr 4

STX ON STX OFF
STX Volts: 6.2048
STX Ground: -0.0416
STX Temp: 22.9994

RECEIVE

Carrier Lock: YES
Bit Lock: YES

Sig Strength: -120.888 dBm
Loop Stress: -2001.97 hz
SRX Temp: 27.3964

NOOP 10 cmds

STX On
COH ON
MZ ant ON

Power

Bus1 -0.26
BusV 15.71

Battery
C1 3.89
C2 3.90
C3 3.86
C4 3.95
DegC 3.9
Chng Curr -0.50

Long Eclipse FALSE
Load Shed NORMAL
Load Shed 1 = 3.60V
Load Shed 2 = 3.45V
PHX Reset = 3.00V

ACS

Spin Rate: 4.19323
Nominal is 4 rpm

Gyro NOT_INHIBITED
StarT: ON
Star Curr: 0.24
FDC Flags 1536
0 = all OK

BURN

LATCH VALVES

Thr_Ena: OFF
Thrusters CatBedHtrs
FALSE 5N OFF
0 22N OFF

HPS Plug: MATED
IBEX SPIN VECTORS
GPS Time 1197490000
ACS Bdy0 0.5898061
ACS Bdy1
ACS Bdy2 0.305241
ACS Bdy3 0.421503

IBEX ACS

S/C Time

1980:009:05:34:57

ACS Time

197791807

act_TMCH Subsystem Modes

Spacecraft State: **CONTINGENCY**

ACS: **HIGH RATE** (279770)

Normal: **NORMAL** (279771)

FC: **MISSION** (279759)

Switches: Start Tr. **ON**, Gyro Inhibit **NOT INHIBITED**, Battery SOC **NORMAL**, PCT V. **1**

Spin Rate (Accel) 4.18923 rpm

Spin Rate (ST) 4.18992 rpm

Fly By Sta **FALSE**

Fly By Gyro **FALSE**

Sun Angle 1.3179 deg

DirCndBodyAngle 0.705821 deg

Point Inertial **0**

Point at Sun **TRUE**

Filter Y Rate (LR) rad/s

Filter Y Rate (HR) rad/s

Start Current 0.236196

PCMB Current 0.098

MX: LV OPEN, PX: LV OPEN

Thruster Enabled? **FALSE**

Catbed Heater **OFF**

Time/Cycle Remaining **0**

SN: 22N

Thr.	On-Time	Valve Temp	Catbed Temp	Temperatures
1	0	31.05	51.89	Star Tr. 26.4085
2	0	38.45	60.75	Zone 1 21.29
3	0	31.54	55.82	Zone 2 26.72
4	0	41.42	66.65	Zone 3 22.28
+Z	0	47.84	79.8096	Zone 4 19.19
-Z	0	14.5	1.0196	

ACE HMILOGS	FDC Trigger Totals	ADC Timeout
1	0	0
Accy HW Read	0	Sta Valid TRUE
Accz HW Read	0	Sta Time Locked
Accz Zero	0	Bright Object FALSE
Gyro HW Read	0	Confidence 4
CSS HW Read	0	# of Stars 32
CSS Magnitude	0	Sequence Fine Tuning
Sun Point Err	0	Last Update 1197490000
Sta Invalid	19025	Ancillary Cnt 3453790
Sta No Solution	0	Spin Pulse Cnt 718666
Sta No Solution 2	18632	Spin Time 10.7335
Sta State	0	CEU Spin Cnt 14.32
Sta State 2	0	Residual[2] 0.000354968
Est Update	0	Sta HK Pkt Time
Est Residual	0	CCD Temp
Est Math	0	CPU Temp
Jet Command	0	SMPS Temp
Spin Rate Yellow	0	DPU Ext. Temp 26.4085
Spin Rate Red	0	CCD Voltage
Spin Rate Conting	0	DAC Gain
Nutation Error	0	DAC Offset
Comp Invalid	0	
Comp Invalid	0	
Accel 1 Invalid	FALSE	
Accel 2 Invalid	FALSE	
Gyro Invalid	FALSE	
CSS Invalid	FALSE	
Sta Invalid	FALSE	
Start Pwr Cycle	FALSE	
Estimator Invalid	FALSE	
Component Invalid	FALSE	
Jets Invalid	FALSE	
Spin Rate Yellow	TRUE	
Spin Rate Red	TRUE	
Maneuver Timeout	FALSE	
Spin Rate Conting	FALSE	
Maneuver Timeout	FALSE	
Sun Point Err	FALSE	
Nut Cnt Error	FALSE	
ST Att Inv NoLatch	FALSE	
FDC Resp.	1536	

AHW STTLM ATT

AHW STTLM HK

Stale Z Rate RPM 4.18958

StarPctValid 77

SpinPulsePro_active INACTIVE

SpinPulsePro_enable ENABLED

KF Input setSource STA_PCT_VALID