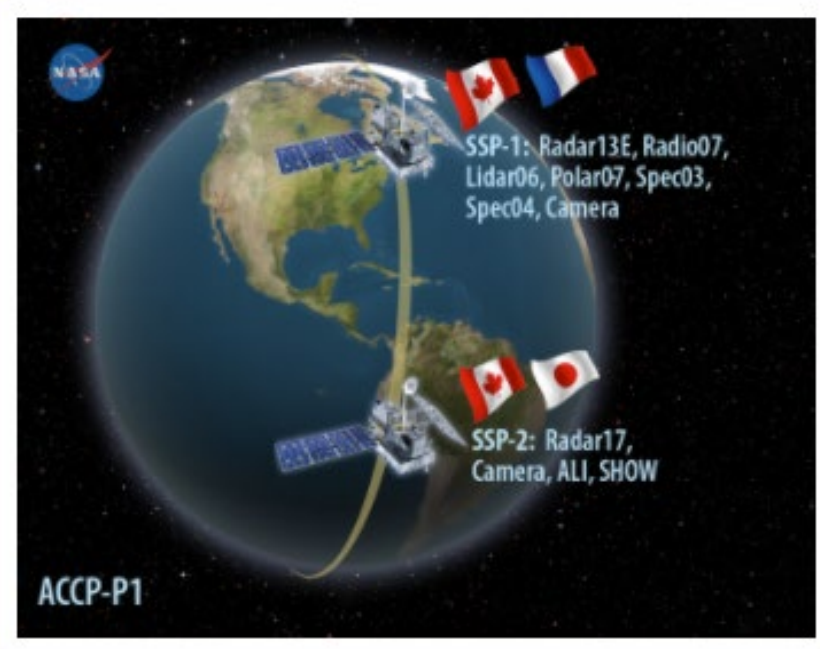


# Other Candidates: ACCP-P1

Diurnal
  Delta t
  Diurnal and Delta t



**Architecture: ACCP-P1**

*All-In International*

Spacecraft: SSP-1 | SSP-2

Instrument	Size	Description
<b>SSP-1</b>		
Radar13E	Medium satellite radar	W band Doppler, Ka band Doppler, 15km swath
Radio07	Small satellite radiometer	118, 183, 240, 310, 380, 660, 880 GHz
Lidar06	Medium satellite lidar	355nm, 532nm HSRL, 1064nm backscatter
Polar07	Small-medium satellite polarimeter	550km swath, 0.5km resolution
Spec03	Small satellite spectrometer	Long wave infrared
Spec04	Small satellite spectrometer	Short wave infrared
Camera	Small satellite camera	Stereo camera visible imaging
<b>SSP-2</b>		
Radar17	Large satellite radar	Ku band Doppler, 255km swath mode
Camera	Small satellite camera	Stereo camera visible imaging
ALI	Small satellite	Aerosol limb sounder
SHOW	Small satellite	Water vapor sensor

**Launch:** Only one launch: 2031

**Descope Options:** (1) Descope ALI/SHOW (2) Descope Camera dt (3) Lidar 05 in lieu of Lidar 06

# Other Candidates: ACCP-P2

Diurnal
  Delta t
  Diurnal and Delta t

**Architecture: ACCP-P2**

*Smaller Swath Radar Option*

Spacecraft: SSP-1 | SSP-2

Instrument	Size	Description
<b>SSP-1</b>		
Radar13E+1	Medium satellite radar	W band Doppler, Ka band Doppler, Ku Doppler, swath 15km
Radio07	Small satellite radiometer	118, 183, 240, 310, 380, 660, 880 GHz
Lidar06	Medium satellite lidar	355nm, 532nm HSRL, 1064nm backscatter
Polar07	Small-medium satellite polarimeter	550km swath, 0.5km resolution
Spec03	Small satellite spectrometer	Long wave infrared
Spec04	Small satellite spectrometer	Short wave infrared
Camera	Small satellite camera	Stereo camera visible imaging
<b>SSP-2</b>		
Camera	Small satellite camera	Stereo camera visible imaging
ALI	Small satellite	Aerosol limb sounder
SHOW	Small satellite	Water vapor sensor

**Launch:** Only one launch: 2031

**Descope Options:** (1) Descope ALI/SHOW (2) Descope Camera dt (3) Lidar 05 in lieu of Lidar 06

# Other Candidates: AQ-1

Diurnal
  Delta t
  Diurnal and Delta t



**Architecture: AQ-1**

*No Ku Band Doppler + 3 WL HSRL + Camera dt + ALI*

Spacecraft: SSP-1 | SSP-2

Instrument	Size	Description
SSP-1		
Radar13E	Medium satellite radar	W band Doppler, Ka band Doppler, 15km swath
Radio07	Small satellite radiometer	118, 183, 240, 310, 380, 660, 880 GHz
Lidar06	Medium satellite lidar	355nm, 532nm HSRL, 1064nm backscatter
Polar07	Small-medium satellite polarimeter	550km swath, 0.5km resolution
Spec03	Small satellite spectrometer	Long wave infrared
Spec04	Small satellite spectrometer	Short wave infrared
Camera	Small satellite camera	Stereo camera visible imaging
SSP-2		
Camera	Small satellite camera	Stereo camera visible imaging
ALI	Small satellite	Aerosol limb sounder

**Descope Options:** (1) Remove ALI (2) Remove Camera dt: [now 1 SC] (3) Swap SSP-1 Lidar05

# Other Candidates: AQ-2

Diurnal
  Delta t
  Diurnal and Delta t



Architecture: AQ-2

Early Science Option

Spacecraft: SSP-1 | SSG-1 | SSG-2

Instrument	Size	Description
<b>SSP-1</b>		
Radar13E	Medium satellite radar	W band Doppler, Ka band Doppler, 15km swath
Radio07	Small satellite radiometer	118, 183, 240, 310, 380, 660, 880 GHz
Lidar06	Medium satellite lidar	355nm, 532nm HSRL, 1064nm backscatter
Polar07	Small-medium satellite polarimeter	550km swath, 0.5km resolution
Spec03	Small satellite spectrometer	Long wave infrared
Spec04	Small satellite spectrometer	Short wave infrared
<b>SSG-1</b>		
Radar12	Small satellite	W band and Ka band Doppler
<b>SSG-2</b>		
Lidar09er	Small satellite lidar	532nm, 1064nm backscatter
Radio07	Small satellite radiometer	118, 183, 240, 310, 380, 660, 880 GHz
Polar04b	Small satellite polarimeter	1130km swath, 1km resolution

**Descope Options:** (1) Swap Lidar05 SSP-1

**Opportunities:** (1) Add Camera dt (2) Add ALI

# Other Candidates: CF-3

Diurnal
  Delta t
  Diurnal and Delta t

**Architecture: CF-3**

*Early Science Option*

Spacecraft: SSP-1 | SSG-1 | SSG-2

Instrument	Size	Description
<b>SSP-1</b>		
Radar13E	Medium satellite radar	W band Doppler, Ka band Doppler, 15km swath
Radio07	Small satellite radiometer	118, 183, 240, 310, 380, 660, 880 GHz
Lidar05	Medium satellite lidar	532nm HSRL, 1064nm backscatter
Polar07	Small-medium satellite polarimeter	550km swath, 0.5km resolution
Spec03	Small satellite spectrometer	Long wave infrared
Spec04	Small satellite spectrometer	Short wave infrared
<b>SSG-1</b>		
Radar12	Small satellite	W band and Ka band Doppler
<b>SSG-2</b>		
Lidar09er	Small satellite lidar	532nm, 1064nm backscatter
Radio09b'-d	Medium satellite radiometer	89, 183, 325 GHz
Polar04b	Small satellite polarimeter	1130km swath, 1km resolution

**Descope Options:** (1) Swap SSG-2 Radio07

**Opportunities:** (1) Swap SSG-1 Radar18 (2) Swap SSP-1 Lidar06 (3) Add Camera dt to SSG-1/2 (4) Add Spec04 to SSG-2 (5) Add ALI/SHOW to SSG-2

# Other Candidates: CV-1

Diurnal
  Delta t
  Diurnal and Delta t



## Architecture: CV-1

*JAXA Ku Band Doppler w/Swath + 2 WL HSRL + Camera & Radiometer dt*

Spacecraft: SSP-1 | SSP-2

Instrument	Size	Description
<b>SSP-1</b>		
Radar13E	Medium satellite radar	W band Doppler, Ka band Doppler, 15km swath
Radio09b'-d	Medium satellite radiometer	89, 183, 325 GHz
Lidar05	Medium satellite lidar	532nm HSRL, 1064nm backscatter
Polar07	Small-medium satellite polarimeter	550km swath, 0.5km resolution
Spec03	Small satellite spectrometer	Long wave infrared
Spec04	Small satellite spectrometer	Short wave infrared
Camera	Small satellite camera	Stereo camera visible imaging
<b>SSP-2</b>		
Radar17	Large satellite radar	Ku band Doppler, 255km swath mode
Radio09b'-d	Medium satellite radiometer	89, 183, 325 GHz
Camera	Small satellite camera	Stereo camera visible imaging

**Descope Options:** (1) Remove Camera dt (2) Remove Radiometer dt [now contributed Radio09b'-d is US] (3) Swap Radio09b'-d for Radio07

# Other Candidates: CV-2

Diurnal
  Delta t
  Diurnal and Delta t



## Architecture: CV-2

*US Ku Band Doppler w/o Swath + 2 WL HSRL + Camera & Radiometer dt*

Spacecraft: SSP-1 | SSP-2

Instrument	Size	Description
SSP-1		
Radar13E+1	Medium satellite radar	W band Doppler, Ka band Doppler, Ku Doppler, swath 15km
Radio09b'-d	Medium satellite radiometer	89, 183, 325 GHz
Lidar05	Medium satellite lidar	532nm HSRL, 1064nm backscatter
Polar07	Small-medium satellite polarimeter	550km swath, 0.5km resolution
Spec03	Small satellite spectrometer	Long wave infrared
Spec04	Small satellite spectrometer	Short wave infrared
Camera	Small satellite camera	Stereo camera visible imaging
SSP-2		
Radio09b'-d	Medium satellite radiometer	89, 183, 325 GHz
Camera	Small satellite camera	Stereo camera visible imaging

**Descope Options:** (1) Remove Camera dt (2) Remove Radiometer dt [now contributed Radio09b'-d is US but don't need SSP-2] (3) Swap Radio09b'-d for Radio07

# Other Candidates: CV-3

Diurnal
  Delta t
  Diurnal and Delta t

**Architecture: CV-3**

*Early Science Option*

Spacecraft: SSP-1 | SSG-1 | SSG-2 | SSG-3

Instrument	Size	Description
<b>SSP-1</b>		
Radar13E	Medium satellite radar	W band Doppler, Ka band Doppler, 15km swath
Radio07	Small satellite radiometer	118, 183, 240, 310, 380, 660, 880 GHz
Lidar05	Medium satellite lidar	532nm HSRL, 1064nm backscatter
Polar07	Small-medium satellite polarimeter	550km swath, 0.5km resolution
Spec03	Small satellite spectrometer	Long wave infrared
Spec04	Small satellite spectrometer	Short wave infrared
<b>SSG-1</b>		
Radar18	Small satellite radar	W band Doppler, Ku band Doppler
<b>SSG-2</b>		
Radio09b'-d	Medium satellite radiometer	89, 183, 325 GHz
<b>SSG-3</b>		
Lidar09er	Small satellite lidar	532nm, 1064nm backscatter
Radio09b'-d	Medium satellite radiometer	89, 183, 325 GHz
Polar04b	Small satellite polarimeter	1130km swath, 1km resolution

**Descope Options:** (1) Remove Radiometer dt [now contributed Radio09b'-d is US; remove SSG-2] (2) Swap SSG-1 Radar12 (3) Swap SSG-3 Radio07