

Roadmap for Planning Activities & Related Work

Note: Some of the planning activities listed below may not be online, in-meeting activities but rather offline work in between meetings for both SOC and Instrument Teams

Pre-Launch Roadmap

Planning Roadmap NECP + Cruise Phase

Planning Roadmap Nominal Mission Phase

Date	Meeting	Preparation for ...	Planning Activity or SGS Test	Output of ... / Feedback on ...
		<p>Preparation MLP for NMP (focus on first half 2022):</p> <ul style="list-style-type: none"> Review PSP, Bepi coordination & any coordination with other missions /observatories (opportunities from Jan 2022 onwards) SOC prepares context for start NMP planning (orbit plots, important events, ...) <p>and prepares downlink simulations</p> <p>see Mission Level Planning of NMP Segment 1: Initial Analysis for SWT 29</p>		
18-19 May 2021 >7m before Jan 2022	SWT 29 (link)		<p>Nominal Phase MLP (first half 2022): prepare MLP for first year of NMP with focus on Jan-Jun 2022 (LTPs 6+7)</p> <p>Approve list of EMC-noisy campaigns, to be used at start of NMP.</p>	
end May 2021				<p>Output MLP (first half 2022):</p> <ul style="list-style-type: none"> SOC sends pass requests + RSW locations for first half 2022 to MOC MOC formally requests passes from ESTRACK (to be fed into FECS) & sets LTP boundaries for LTPs 6 and 7
June 2021			<p>Full science E2E test, incl.</p> <ul style="list-style-type: none"> STP with iVSTP reservations (ITs to SOC) VSTP IORs (ITs to SOC) IOR CRRs (SOC to ITs) PORs, VDORs, PTRs (SOC to MOC) + associated CRRs (MOC to SOC) 	
		<p>Preparation LTP 5 (+ review manoeuvres LTP6):</p> <ul style="list-style-type: none"> Instrument teams review observation definitions for end Cruise and start NMP in SOOP Kitchen MOC distributes formal event skeleton for LTP5 SOC prepares SOOP Kitchen (obs definitions, events, ...) Update context page LTP05 Oct 2021-Dec 2021 		
12 July 2021	kick off LTP5 planning	SOC and PSs inform the instrument teams about the planning goals of LTP5 + scope for plan optimisation		
13 July 2021	Executive SWT		Nominal Phase MLP (first half 2022): executive SWT approves the top-level science plan for LTPs 6+7	
				<p>Output MLP (first half 2022):</p> <ul style="list-style-type: none"> SOC runs first-round SSMM + downlink simulations feedback to SWT
20 & 22 July 2021 >2m before Oct-Dec 2021	SOWG #18		<p>CP+NMP Planning LTP 5: observations and SOOP planning for Oct-Dec 2021</p> <p>There will be a review of any S/C manoeuvres needed during LTP6 (Jan-Mar 2022) as well, so the requests can be sent to MOC.</p>	

by mid August 2021 ~1m before first IOR deadline				Output LTP5 planning: <ul style="list-style-type: none"> SOC distributes formal products (EFECS, TMC, obs timelines) and context plan in SOOP Kitchen = input for IOR writing for STPs included in LTP-5 ★ Update context page LTP05 Oct 2021-Dec 2021
end Aug 2021				Pre-LTP TN for LTP6: <ul style="list-style-type: none"> SOC requests S/C manoeuvres for LTP6 (Jan-Mar 2022) to Flight Dynamics
end September		Preparation LTP06 (+ review manoeuvres & downlink LTP07): <ul style="list-style-type: none"> Instrument teams review observation definitions for early NMP in SOOP Kitchen MOC distributes formal event skeleton for LTP06 & rough pass schedule LTP7 SOC prepares SOOP Kitchen (obs definitions, events, ...) Update context page LTP06 Q1-2022 		
14 Oct 2021	kick off LTP06 planning	SOC and PSs inform the instrument teams about the planning goals of LTP6 + scope for plan optimisation		
26 & 28 Oct 2021 >2m before Jan-Mar 2022	SOWG 19		NMP Planning LTP06: observations and SOOP planning for Q1-2022 There will be a high-level review of LTP07 (Q2-2022) as well, based on the preliminary pass schedule received from MOC + any S/C manoeuvres needed during LTP07, so the requests can be sent to MOC.	
by mid end Nov 2021 ~1m before first IOR deadline <i>note planning output will be delayed due to rework due to late PTEL</i>				Output LTP06 planning: <ul style="list-style-type: none"> SOC distributes formal products (EFECS, TMC, obs timelines) and context plan in SOOP Kitchen = input for IOR writing for STPs included in LTP06 ★ Update context page LTP06 Q1-2022
end Nov 2021				Pre-LTP TN for LTP07: <ul style="list-style-type: none"> SOC requests S/C manoeuvres for LTP07 (Q2-2022) to Flight Dynamics
16-17 Nov 2021 >7m before Jul 2022	SWT 30		No urgent mission level planning needed. Input to ESTRACK negotiation already provided after summer, based on output of SWT#29 and the RSW locations for whole year 2022. SWT will be focussed on Mission Status at end Cruise Phase and readiness for NMP.	
end December		Preparation LTP07: <ul style="list-style-type: none"> Instrument teams review observation definitions for NMP in SOOP Kitchen MOC distributes formal event skeleton for LTP07 SOC prepares SOOP Kitchen (obs definitions, events, ...) Update context page LTP07 Q2-2022 		
Jan 2022 >2m before Apr-Jun 2022	SOWG (no meeting for LTP07 planning)		NMP Planning LTP07: observations and SOOP planning for Q2-2022 Seen the simplicity of LTP07 (no RSWs), this period will be planned by SOC, with IS/RSWG and individual instrument teams in the loop as needed. There will be a high-level review of LTP08 (Q3-2022) as well + any S/C manoeuvres needed during LTP08, so the requests can be sent to MOC.	
by mid Feb 2022 ~1m before first IOR deadline				Output LTP07 planning: <ul style="list-style-type: none"> SOC distributes formal products (EFECS, TMC, obs timelines) and context plan in SOOP Kitchen = input for IOR writing for STPs included in LTP07 ★

		<p>Preparation MLP for NMP (focus on 2022-H2 = LTP08+09):</p> <ul style="list-style-type: none"> Review PSP, Bepi coordination & any coordination with other missions /observatories (opportunities from Jul 2022 onwards) SOC prepares context for start NMP planning (orbit plots, important events, ...) <p>and prepares downlink simulations</p>		
week of 7 Feb (exact date TBD)	SWT 31		Nominal Phase MLP (2022-H2): Planning of science priorities for Jul-Dec 2022 (LTP08+09)	
end Feb 2022				<p>Output MLP (2022-H2):</p> <ul style="list-style-type: none"> SOC sends pass requests + RSW locations for 2nd half 2022 to MOC MOC formally requests passes from ESTRACK (to be fed into FECS) & sets LTP boundaries for LTPs 08 and 09
end Feb 2022				<p>Pre-LTP TN for LTP08:</p> <ul style="list-style-type: none"> SOC sends S/C manoeuvre requests for LTP08 (Q3-2022) to Flight Dynamics
end March		<p>Preparation LTP08:</p> <ul style="list-style-type: none"> Instrument teams review observation definitions for NMP in SOOP Kitchen MOC distributes formal event skeleton for LTP08 SOC prepares SOOP Kitchen (obs definitions, events, ...) Update context page LTP08 Q3-2022 		
April 2022 (exact date TBC)	kick off LTP08 planning	SOC and PSs inform the instrument teams about the planning goals of LTP6 + scope for plan optimisation		
<p>Week of 25 April 2022 (exact dates TBC)</p> <p>>2m before Apr-Jun 2022</p>	SOWG 20		<p>NMP Planning LTP08: observations and SOOP planning for Q3-2022</p> <p>Light planning meeting of 1 day only for LTP-8 (no RSWs to prepare), possibility for coordination matters and technical discussions.</p> <p>There will be a high-level review of LTP09 (Q4-2022) as well + any S/C manoeuvres needed during LTP09, so the requests can be sent to MOC.</p>	
<p>by mid May 2022</p> <p>~1m before first IOR deadline</p>				<p>Output LTP08 planning:</p> <ul style="list-style-type: none"> SOC distributes formal products (EFECS, TMC, obs timelines) and context plan in SOOP Kitchen = input for IOR writing for STPs included in LTP08 ★
end May 2022				<p>Pre-LTP TN for LTP09:</p> <ul style="list-style-type: none"> SOC requests S/C manoeuvres for LTP09 (Q4-2022) to Flight Dynamics
		<p>Preparation MLP for NMP (focus on 2023-H1 = LTP10+11):</p> <ul style="list-style-type: none"> Review PSP, Bepi coordination & any coordination with other missions /observatories (opportunities from Jan 2023 onwards) SOC prepares context for start NMP planning (orbit plots, important events, ...) <p>and prepares downlink simulations</p>		
<p>mid May 2022 (dates TBC)</p> <p>>7m before Jan 2023</p>	SWT 32		Nominal Phase MLP (2023-H1): Planning of science priorities for Jan-Jun 2023 (LTP10+11)	

				<p>Output MLP (2023-H1):</p> <ul style="list-style-type: none"> • SOC sends pass requests + RSW locations to MOC • MOC formally requests passes from ESTRACK (to be fed into FECS) & sets LTP boundaries for LTPs 10 and 11
end June		<p>Preparation LTP09:</p> <ul style="list-style-type: none"> • Instrument teams review observation definitions in SOOP Kitchen • MOC distributes formal event skeleton for LTP09 (FECS+PTEL) • SOC prepares SOOP Kitchen (obs definitions, events, ...) • Update context page LTP09 Q4-2022 		
July 2022 (exact date TBC)	kick off LTP09 planning	SOC and PSs inform the instrument teams about the planning goals of LTP6 + scope for plan optimisation		
July 2022	SOWG 21		<p>NMP Planning LTP09: observations and SOOP planning for Q4-2022</p> <p>Regular SOWG to plan for a 3 months period including RSWs.</p> <p>There will be a high-level review of LTP10 (Q1-2023) as well + any S/C manoeuvres needed during LTP10, so the requests can be sent to MOC.</p>	
by early Aug 2022 ~1m before first IOR deadline				<p>Output LTP09 planning:</p> <ul style="list-style-type: none"> • SOC distributes formal products (EFECs, TMC, obs timelines) and context plan in SOOP Kitchen • = input for IOR writing for STPs included in LTP09 ★

★ STP planning schedules are published per LTP cycle, see e.g. pages under [LTP04 Schedule](#)