

PROJECT TIMELINE

		JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER																																										
		2	9	16	23	30	6	13	20	27	0	6	13	20	27	0	3	10	17	24	0	1	8	15	22	29	5	12	19	26	0	3	10	17	24	31	7	14	21	28	0	4	11	18	25	0	2	9	16	23	30	6	13	20	27	0	4	11	18	25	0					
2017	Choose events; choose model settings; choose metrics; establish benchmarks; GONG-WSA-Enlil runs and validation																									SWPC R2: Provide (a) list of historic events to validate (CME start time) (b) model CME parameter inputs for all events. Preliminary list available in mid-July. (Doug)																																								
																										SWPC R2: Provide detailed inputs and outputs for a select number (~2) of operational WSA-Enlil runs from the event list (including all model settings, WSA input file, magnetogram input file information, and CME parameters). Vic																																								
																										SWPC R2: Provide detailed inputs for all available operational WSA-Enlil runs from event list (including all model settings, WSA input file, magnetogram input file information, and CME parameters). Doug																																								
																										CCMC: replicate test run provided. Leila, Peter																																								
																										CCMC (SWPC R2): Create online database of provided SWPC simulations, including all necessary metadata. Chiu																																								
																										CCMC (SWPC R2): Provide test runs with different grid resolutions, test replication. Discuss desired grid resolution, time resolution, and model ambient settings to be used for CCMC R1 & R2. Leila, Peter																																								
																										SWPC R2: Evaluate any test runs. Discuss and decide desired grid resolution, grid outer boundary, time resolution, magnetogram input frequency, model versions, model ambient settings, number of blocks, and other relevant information to be used for CCMC R1 & R2. SWPC will evaluate whether low-resolution grid runs will suffice for this and all subsequent items. Vic																																								
																										SWPC R3: Prepare an evaluation of the required resolution for model runs. Vic																																								
																										SWPC R2: Provide metrics to be used for model validation tasks. Metrics may be revised as needed. These metrics will be used for the validation tasks in the items below.																																								
																										CCMC R1: Create an on-line database of simulations using GONG-WSA-Enlil driven by a single GONG magnetogram to establish model performance benchmarks. (continues into 2018)																																								
				JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER																																								
		1	8	15	22	29	5	12	19	26	0	5	12	19	26	0	2	9	16	23	30	1	7	14	21	28	4	11	18	25	0	2	9	16	23	30	6	13	20	27	0	3	10	17	24	0	3	10	17	24	0	1	8	15	22	29	5	12	19	26	0	3	10	17	24	31
2018	ADAPT-WSA-Enlil runs and validation; interim report	CCMC: Install ENLIL 2.9+ upgrades and successfully achieve 2.6 replication																																																																
		CCMC R1: Create an on-line database of simulations using GONG-WSA-Enlil driven by a single GONG magnetogram to establish model performance benchmarks. (continued from 2017)																																																																
		CCMC R2: Perform validation of GONG-WSA-Enlil driven by time-dependent GONG magnetograms. The results will be compared to GONG-WSA-Enlil runs from NASA responsibility 1. (continued from 2017)																																																																
		SWPC (CCMC R2): Choose one event for CCMC R3. Discuss and provide source for GONG-ADAPT maps to be used in CCMC R3-R5																																																																
		CCMC R3: Perform a preliminary time-dependent ADAPT-WSA-Enlil simulation for all 12 realizations for one event. Necessary ADAPT-WSA model outputs will be obtained from subject matter experts if WSA 4.0 has not yet been implemented at CCMC.																																																																
		Joint R1: prepare interim report due Sep 1st.																																																																
CCMC R4: Perform validation of ADAPT-WSA-Enlil (WSA Version 4.0 or higher, Enlil version 2.8f or higher) driven by 12 realizations of single ADAPT maps. The results will be compared with GONG-WSA-Enlil runs from R1 and R2.																																																																		
CCMC R5: Perform validation of ADAPT-WSA-Enlil driven by time-dependent ADAPT maps (one sequence for each of the 12 realizations). The results will be compared to the GONG-WSA-Enlil runs from responsibilities R1, R2, and R4. CCMC will investigate ways to take best advantage of 12 realizations. (continues into 2019)																																																																		
		JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER																																										
		7	14	21	28	0	4	11	18	25	0	4	11	18	25	0	1	8	15	22	29	6	13	20	27	0	3	10	17	24	0	1	8	15	22	29	5	12	19	26	0	2	9	16	23	30	7	14	21	28	0	4	11	18	25	0	2	9	16	23	30					
2019	Final report	CCMC R4: Perform validation of ADAPT-WSA-Enlil (WSA Version 4.0 or higher, Enlil version 2.8f or higher) driven by 12 realizations of single ADAPT maps. The results will be compared with GONG-WSA-Enlil runs from R1 and R2.																																																																
		Joint R2: Prepare final report due Sep 1st.																																																																