



News From Joint Run Planning Committee

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Joint Run Planning Committee (JRPC)

- Committee members and co-chairs appointed by 13Mar07
- Luncheon meeting of members attending March 19-22 LSC meeting in Baton Rouge
 - » Identified run coordination and scenarios as main issues
- Received charge 2Apr07, with short-term items:
 - » Coordination for S5 joint running
 - » Scenarios for post-S5 to S6 era
- Bi-weekly JRPC telecons were held on 13Apr07, 27Apr07 and 11May07
 - » Most run coordination issues settled
 - » Progress has been made on scenarios



Consensus achieved on coordination for S5: Run coordinators

- LIGO has an S5 run coordinator, Vern Sandberg
- Hanford, Livingston and GEO have local run coordinators, which rotate on a schedule determined by each local site
- R. Passaquieti will act as Virgo run coordinator, empowered to make decisions affecting Virgo's operation during S5
- LIGO has an S5 Run Coordination Telecon, at 19:15 UTC, attended by representatives of all LSC working groups and LIGO-Lab and GEO people with major run responsibilities
- Virgo is invited to attend the run planning telecon; because of the large attendance and the relatively short time left in the S5 run, LIGO would prefer not to change this meeting time



Consensus achieved on coordination for S5: Run Interruptions

- Virgo will adopt similar schedule to LIGO for interrupts to science mode (recording search data):
 - » 4-hr weekly maintenance window for contractors and other large-disturbance activities
 - » H1, H2 and L1 synchronize maintenance at 08:00 to 12:00 PT in US; European detectors will synchronize to a different time window appropriate to their time zone; easy and supplies good coverage
 - » Up to 25 hours/month at each site may be dedicated to “commissioning” (or “troubleshooting”) activities, which require near-science-mode conditions; coordinated between sites
 - » This “commissioning” time will be coordinated by run coordinators to optimize amount of time with 2-3 of the large detectors operating in coincidence, while providing a good degree of coverage



Consensus achieved on coordination for S5: Calibrations & Injections

- Time-consuming calibration checks are done as part of “commissioning” time allotment
 - » LIGO & Virgo do not expect to need such calibration time during the 4 months beginning May 18
- Hardware injections will be done during science mode, with appropriate flags recorded; not expecting to consume much integrated time
- Simultaneous hardware injections are highly desired by analysis groups but will not be required
 - » Requires mods to real-time software with risk to de-stabilize Virgo
 - » A best effort will be made to implement before end of run



Scenarios for operating in post-S5 to S6 era

- A subcommittee – Adhikari(chair), Punturo, Riles, Vicere and Willke – was formed to investigate and bring a strawman recommendation to full committee
- DAC asked to consider GEO-only coverage
 - » discussion was held but no consensus emerged on whether a triggered GEO-only paper would be publishable
- Subcommittee found general consensus:
 - » Highest priority: enhance capabilities of the largest interferometers as rapidly as possible.
 - » Secondary priority: provide best coverage possible.
 - » Some science/engineering running desired by large detectors in 08.
 - » Strawman schedule developed on this consensus view.
 - » Request for DAC to discuss significance of any benefits of delaying enhancement and running one of the larger detectors.
 - » Subcommittee will investigate/document what flexibility exists, given “political” commitments by LIGO and Virgo.



Strawman schedule discussed at JRPC telecon of 27Apr07 **with political constraints**

	GEO	Virgo	H1/L1	H2	TAMA
Summer 07 ?		S5	S5 Need 1 yr coincident data	S5	Join S5 (?)
Dec 07	running	offline	offline	Astrowatch	
late 08	some short engineering or science runs				
June 09	Start GEO HF work at S6 start	start S6 With LIGO	start S6 Want 1 yr coincident data	start S6	
Feb 2011	GEO HF	Adv Virgo	Adv LIGO	Adv LIGO	LCGT R&D

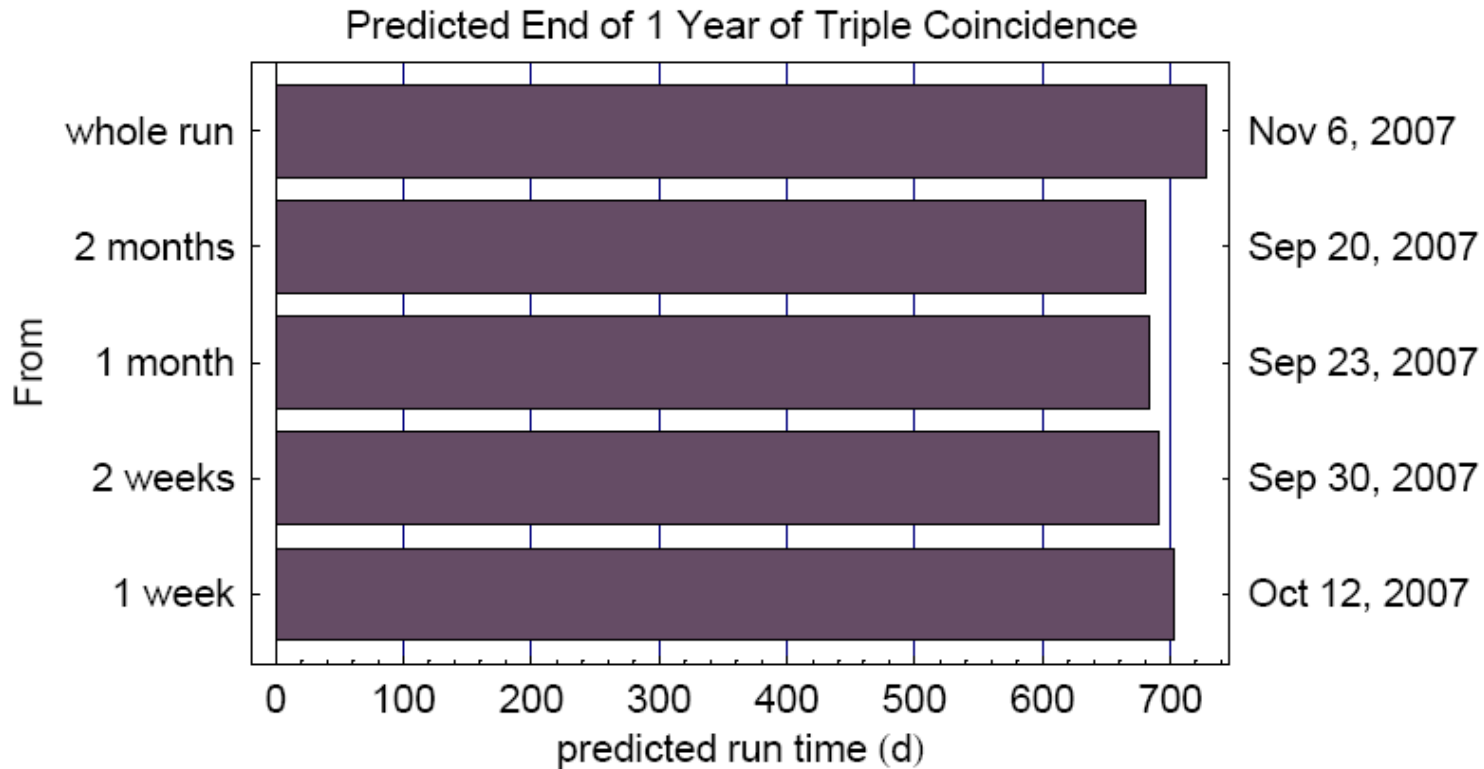


Procedure to end S5

- Will need significant time following end of science running, before releasing machines
 - » Required calibration checks
 - » Documentation work
 - » Post-run commissioning for lessons learned
- Vern Sandberg will propose a schedule for this work to LSC Operations Committee (LSC-OC) by mid May for committee review/recommendation
- On same time scale, Fred Raab will ask LSC-OC to recommend date for end of science running
 - » based on projections by D. Sigg, 1-yr triple LIGO triple-coincidence will be achieved by end of September 2007
 - » That date allows 4 months of LIGO/Virgo science running during S5



Latest Predictions for End of 1 Year of Triple Coincidence





Latest Predictions for End of 1 Year of Hanford/Livingston Coincidence

