

ILRS Site Configuration Project: 2015 Questionnaire Summary

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Abstract

In late 2015 the ILRS developed a questionnaire that was distributed to all ILRS stations at that time. The purpose of the questionnaire was to assess the network's future-plans, near- and long-term. The tracking-load for the ILRS network is expanding with a large influx of new GNSS satellites and new LEO satellites with special requirements. Although this is

exciting, it comes with a challenge. In another ten years, we could have more than one hundred GNSS and GEO satellites; and this is also true of LEO satellites. GNSS tracking will be a major topic for the coming decades. The GNSS campaigns that we have conducted so far have given us a baseline of expectations for the current network. It is very unlikely that all stations will be able to track all the satellites during the same period with sufficient data density to satisfy every mission. We recognize that we need to

categorize different stations based on capabilities and availabilities. There are simulations underway to try to evaluate some options that might help us optimize our tracking activities. These simulations depend of course on the capabilities that we can expect from the stations in the future; we are considering projections for 5 and 10 years into the future. We understand that none of us can project with certainty for the long term, but we would like to find out from the stations what you think your situation will be.

This poster is an attempt to summarize the replies received to date. It took several reminders until we received a credible number of replies for the process to be considered successful. We thank all the stations that took the time to complete and return promptly the questionnaire and we hope that those who did not yet do that, as well as the new stations that recently joined the network, will do so in the near-future.

ILRS Site Configuration Project Questionnaire 2015

1. Do you anticipate tracking additional satellites in the future and if so what count?

2. Do you expect to change your antenna configuration? Do you have any plans to change GNSS?

3. Do you have any plans to change your antenna configuration? Do you have any plans to change GNSS?

4. Do you have any plans to change your antenna configuration? Do you have any plans to change GNSS?

5. Do you have any plans to change your antenna configuration? Do you have any plans to change GNSS?

6. Do you have any plans to change your antenna configuration? Do you have any plans to change GNSS?

7. Do you have any plans to change your antenna configuration? Do you have any plans to change GNSS?

8. Do you have any plans to change your antenna configuration? Do you have any plans to change GNSS?

9. Do you have any plans to change your antenna configuration? Do you have any plans to change GNSS?

10. Do you have any plans to change your antenna configuration? Do you have any plans to change GNSS?

Site ID	Priority	Antenna Tracking	GNSS Tracking Capability	Other
1874	1	Yes	Yes	Yes
1884	2	Yes	Yes	Yes
1893	3	Yes	Yes	Yes
7800	4	Yes	Yes	Yes
7801	5	Yes	Yes	Yes
7802	6	Yes	Yes	Yes
7803	7	Yes	Yes	Yes
7804	8	Yes	Yes	Yes
7805	9	Yes	Yes	Yes
7806	10	Yes	Yes	Yes
7807	11	Yes	Yes	Yes
7808	12	Yes	Yes	Yes
7809	13	Yes	Yes	Yes
7810	14	Yes	Yes	Yes
7811	15	Yes	Yes	Yes
7812	16	Yes	Yes	Yes
7813	17	Yes	Yes	Yes
7814	18	Yes	Yes	Yes
7815	19	Yes	Yes	Yes
7816	20	Yes	Yes	Yes
7817	21	Yes	Yes	Yes
7818	22	Yes	Yes	Yes
7819	23	Yes	Yes	Yes
7820	24	Yes	Yes	Yes
7821	25	Yes	Yes	Yes
7822	26	Yes	Yes	Yes
7823	27	Yes	Yes	Yes
7824	28	Yes	Yes	Yes
7825	29	Yes	Yes	Yes
7826	30	Yes	Yes	Yes
7827	31	Yes	Yes	Yes
7828	32	Yes	Yes	Yes
7829	33	Yes	Yes	Yes
7830	34	Yes	Yes	Yes
7831	35	Yes	Yes	Yes
7832	36	Yes	Yes	Yes
7833	37	Yes	Yes	Yes
7834	38	Yes	Yes	Yes
7835	39	Yes	Yes	Yes
7836	40	Yes	Yes	Yes
7837	41	Yes	Yes	Yes
7838	42	Yes	Yes	Yes
7839	43	Yes	Yes	Yes
7840	44	Yes	Yes	Yes
7841	45	Yes	Yes	Yes
7842	46	Yes	Yes	Yes
7843	47	Yes	Yes	Yes
7844	48	Yes	Yes	Yes
7845	49	Yes	Yes	Yes
7846	50	Yes	Yes	Yes
7847	51	Yes	Yes	Yes
7848	52	Yes	Yes	Yes
7849	53	Yes	Yes	Yes
7850	54	Yes	Yes	Yes
7851	55	Yes	Yes	Yes
7852	56	Yes	Yes	Yes
7853	57	Yes	Yes	Yes
7854	58	Yes	Yes	Yes
7855	59	Yes	Yes	Yes
7856	60	Yes	Yes	Yes
7857	61	Yes	Yes	Yes
7858	62	Yes	Yes	Yes
7859	63	Yes	Yes	Yes
7860	64	Yes	Yes	Yes
7861	65	Yes	Yes	Yes
7862	66	Yes	Yes	Yes
7863	67	Yes	Yes	Yes
7864	68	Yes	Yes	Yes
7865	69	Yes	Yes	Yes
7866	70	Yes	Yes	Yes
7867	71	Yes	Yes	Yes
7868	72	Yes	Yes	Yes
7869	73	Yes	Yes	Yes
7870	74	Yes	Yes	Yes
7871	75	Yes	Yes	Yes
7872	76	Yes	Yes	Yes
7873	77	Yes	Yes	Yes
7874	78	Yes	Yes	Yes
7875	79	Yes	Yes	Yes
7876	80	Yes	Yes	Yes
7877	81	Yes	Yes	Yes
7878	82	Yes	Yes	Yes
7879	83	Yes	Yes	Yes
7880	84	Yes	Yes	Yes
7881	85	Yes	Yes	Yes
7882	86	Yes	Yes	Yes
7883	87	Yes	Yes	Yes
7884	88	Yes	Yes	Yes
7885	89	Yes	Yes	Yes
7886	90	Yes	Yes	Yes
7887	91	Yes	Yes	Yes
7888	92	Yes	Yes	Yes
7889	93	Yes	Yes	Yes
7890	94	Yes	Yes	Yes
7891	95	Yes	Yes	Yes
7892	96	Yes	Yes	Yes
7893	97	Yes	Yes	Yes
7894	98	Yes	Yes	Yes
7895	99	Yes	Yes	Yes
7896	100	Yes	Yes	Yes

What upgrades and replacements are you planning for your station (e.g., epoch timing system, telescope/mount, laser system, event/inertial/inertial counter, detector types, operational procedures, software, any other major changes/additions)?

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1874	1	Yes	Yes	Yes
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7801	5	Yes	Yes	Yes
7802	6	Yes	Yes	Yes
7803	7	Yes	Yes	Yes
7804	8	Yes	Yes	Yes
7805	9	Yes	Yes	Yes
7806	10	Yes	Yes	Yes
7807	11	Yes	Yes	Yes
7808	12	Yes	Yes	Yes
7809	13	Yes	Yes	Yes
7810	14	Yes	Yes	Yes
7811	15	Yes	Yes	Yes
7812	16	Yes	Yes	Yes
7813	17	Yes	Yes	Yes
7814	18	Yes	Yes	Yes
7815	19	Yes	Yes	Yes
7816	20	Yes	Yes	Yes
7817	21	Yes	Yes	Yes
7818	22	Yes	Yes	Yes
7819	23	Yes	Yes	Yes
7820	24	Yes	Yes	Yes
7821	25	Yes	Yes	Yes
7822	26	Yes	Yes	Yes
7823	27	Yes	Yes	Yes
7824	28	Yes	Yes	Yes
7825	29	Yes	Yes	Yes
7826	30	Yes	Yes	Yes
7827	31	Yes	Yes	Yes
7828	32	Yes	Yes	Yes
7829	33	Yes	Yes	Yes
7830	34	Yes	Yes	Yes
7831	35	Yes	Yes	Yes
7832	36	Yes	Yes	Yes
7833	37	Yes	Yes	Yes
7834	38	Yes	Yes	Yes
7835	39	Yes	Yes	Yes
7836	40	Yes	Yes	Yes
7837	41	Yes	Yes	Yes
7838	42	Yes	Yes	Yes
7839	43	Yes	Yes	Yes
7840	44	Yes	Yes	Yes
7841	45	Yes	Yes	Yes
7842	46	Yes	Yes	Yes
7843	47	Yes	Yes	Yes
7844	48	Yes	Yes	Yes
7845	49	Yes	Yes	Yes
7846	50	Yes	Yes	Yes
7847	51	Yes	Yes	Yes
7848	52	Yes	Yes	Yes
7849	53	Yes	Yes	Yes
7850	54	Yes	Yes	Yes
7851	55	Yes	Yes	Yes
7852	56	Yes	Yes	Yes
7853	57	Yes	Yes	Yes
7854	58	Yes	Yes	Yes
7855	59	Yes	Yes	Yes
7856	60	Yes	Yes	Yes
7857	61	Yes	Yes	Yes
7858	62	Yes	Yes	Yes
7859	63	Yes	Yes	Yes
7860	64	Yes	Yes	Yes
7861	65	Yes	Yes	Yes
7862	66	Yes	Yes	Yes
7863	67	Yes	Yes	Yes
7864	68	Yes	Yes	Yes
7865	69	Yes	Yes	Yes
7866	70	Yes	Yes	Yes
7867	71	Yes	Yes	Yes
7868	72	Yes	Yes	Yes
7869	73	Yes	Yes	Yes
7870	74	Yes	Yes	Yes
7871	75	Yes	Yes	Yes
7872	76	Yes	Yes	Yes
7873	77	Yes	Yes	Yes
7874	78	Yes	Yes	Yes
7875	79	Yes	Yes	Yes
7876	80	Yes	Yes	Yes
7877	81	Yes	Yes	Yes
7878	82	Yes	Yes	Yes
7879	83	Yes	Yes	Yes
7880	84	Yes	Yes	Yes
7881	85	Yes	Yes	Yes
7882	86	Yes	Yes	Yes
7883	87	Yes	Yes	Yes
7884	88	Yes	Yes	Yes
7885	89	Yes	Yes	Yes
7886	90	Yes	Yes	Yes
7887	91	Yes	Yes	Yes
7888	92	Yes	Yes	Yes
7889	93	Yes	Yes	Yes
7890	94	Yes	Yes	Yes
7891	95	Yes	Yes	Yes
7892	96	Yes	Yes	Yes
7893	97	Yes	Yes	Yes
7894	98	Yes	Yes	Yes
7895	99	Yes	Yes	Yes
7896	100	Yes	Yes	Yes

How many hours per day and days per week do you operate?

Site ID	Priority	Antenna Tracking	GNSS Tracking Capability	Other
1874	1	Yes	Yes	Yes
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7800	4	Yes	Yes	Yes
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7803	7	Yes	Yes	Yes
7804	8	Yes	Yes	Yes
7805	9	Yes	Yes	Yes
7806	10	Yes	Yes	Yes
7807	11	Yes	Yes	Yes
7808	12	Yes	Yes	Yes
7809	13	Yes	Yes	Yes
7810	14	Yes	Yes	Yes
7811	15	Yes	Yes	Yes
7812	16	Yes	Yes	Yes
7813	17	Yes	Yes	Yes
7814	18	Yes	Yes	Yes
7815	19	Yes	Yes	Yes
7816	20	Yes	Yes	Yes
7817	21	Yes	Yes	Yes
7818	22	Yes	Yes	Yes
7819	23	Yes	Yes	Yes
7820	24	Yes	Yes	Yes
7821	25	Yes	Yes	Yes
7822	26	Yes	Yes	Yes
7823	27	Yes	Yes	Yes
7824	28	Yes	Yes	Yes
7825	29	Yes	Yes	Yes
7826	30	Yes	Yes	Yes
7827	31	Yes	Yes	Yes
7828	32	Yes	Yes	Yes
7829	33	Yes	Yes	Yes
7830	34	Yes	Yes	Yes
7831	35	Yes	Yes	Yes
7832	36	Yes	Yes	Yes
7833	37	Yes	Yes	Yes