

2013-12-10 detchar meeting

磁場・地面振動測定について

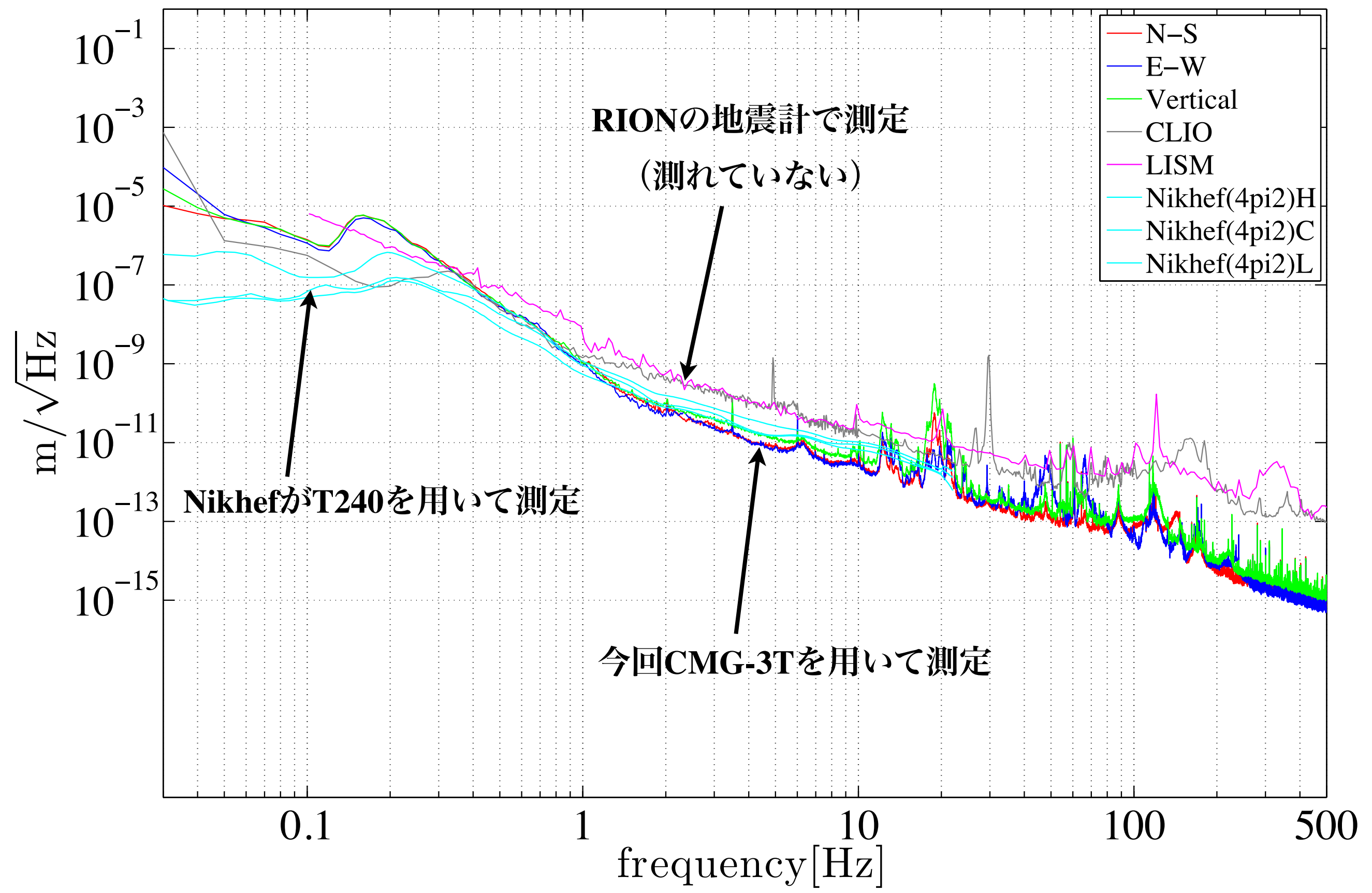
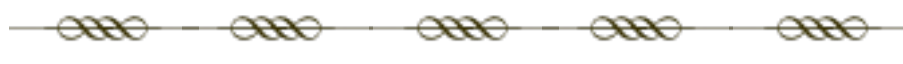


- 磁場

- データに見られたバーストがKAGRAサイト固有のものなのかどうかを調査するために、柏で測定。

- 地面振動

- 高周波でNikhefの結果と合わない問題。地震計の特性を調べるために、柏でRIONの地震計と同時測定。

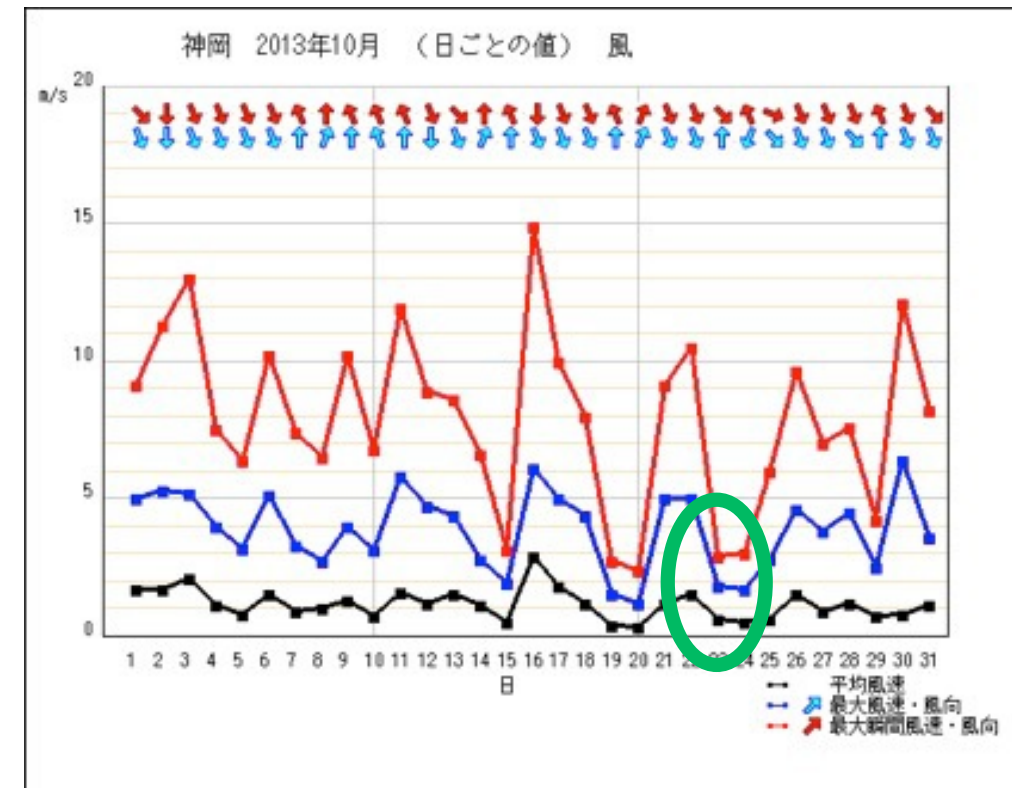
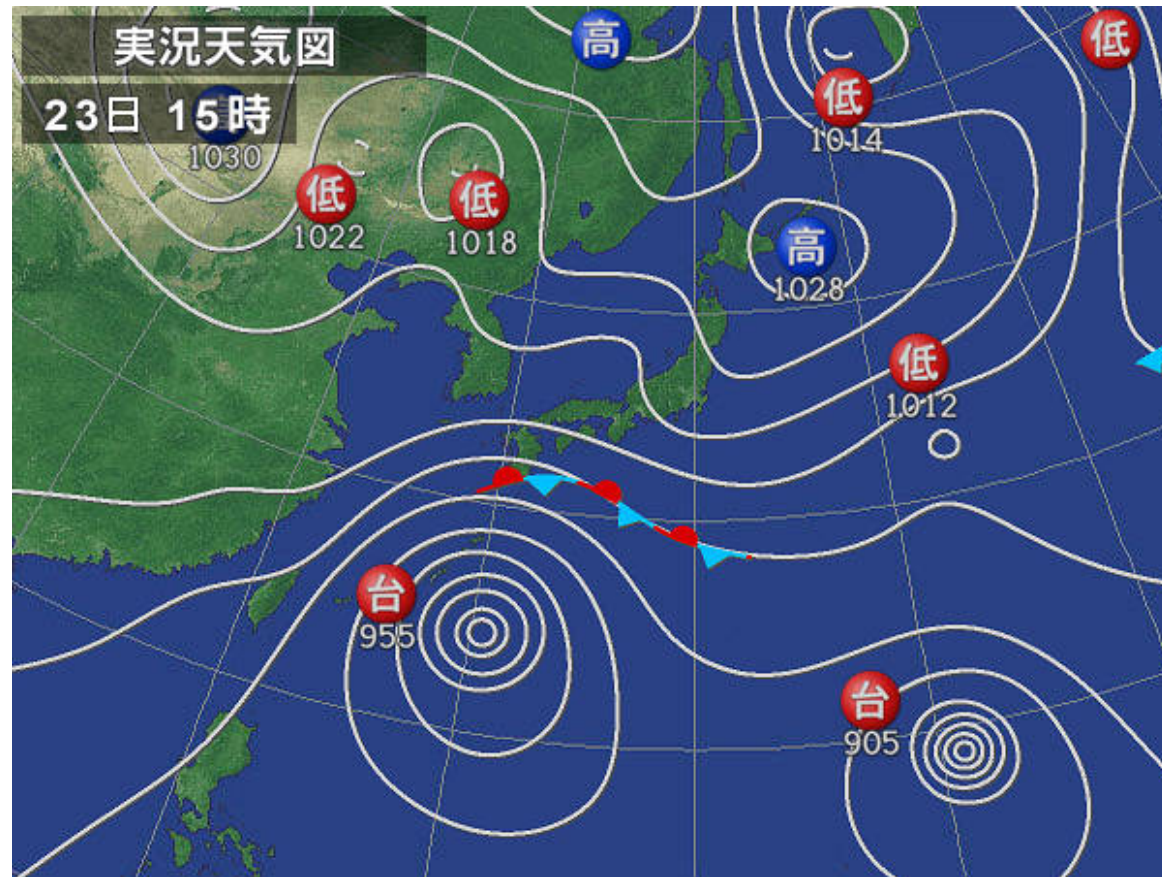
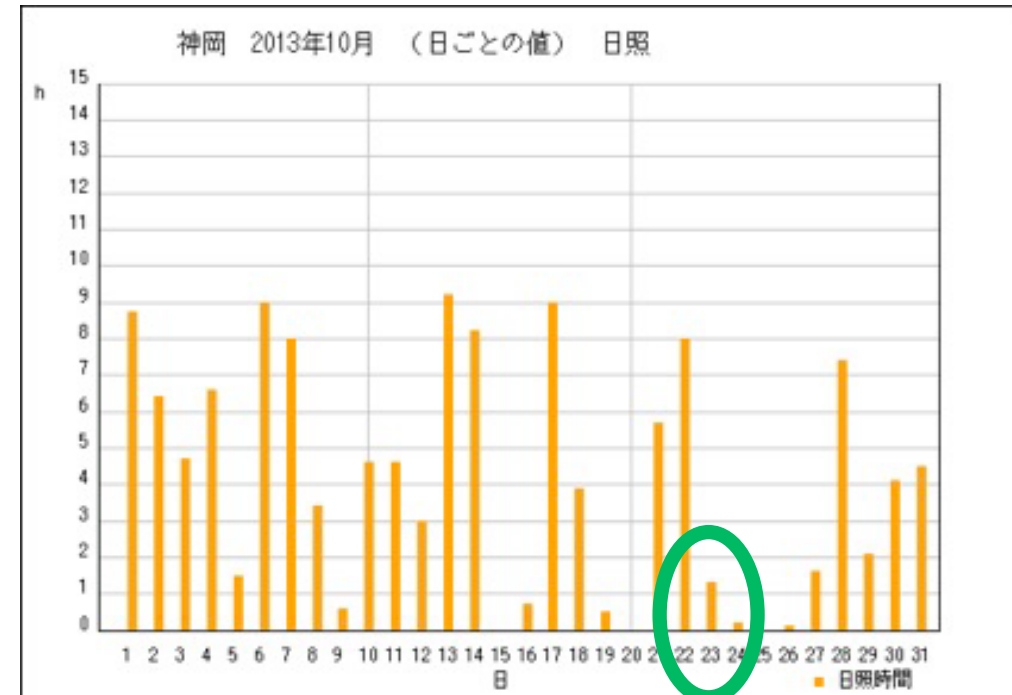


2013年10月23日の天候

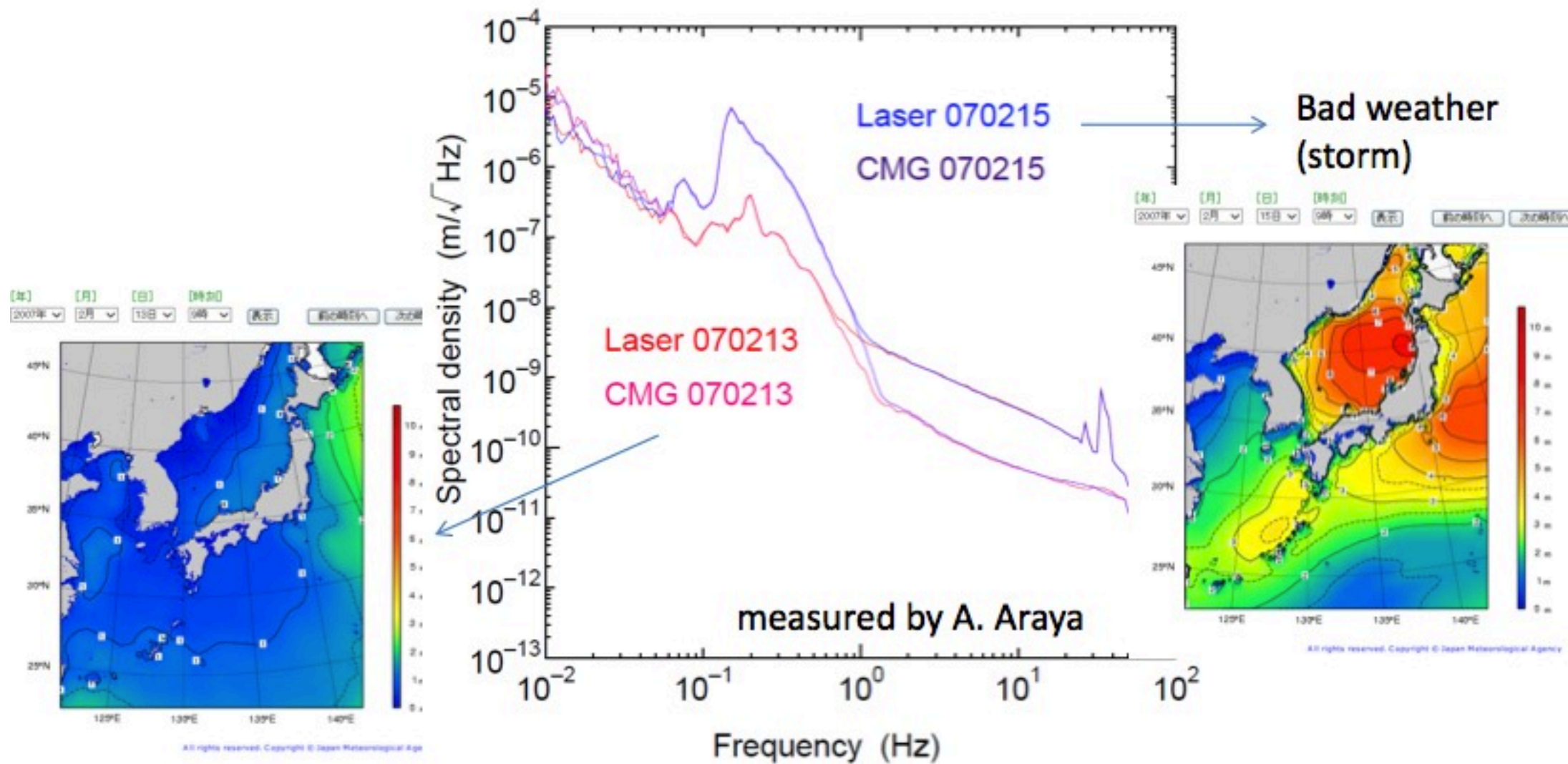


神岡 2013年10月23日

時	降水量(mm)	気温(C)	風向・風速(m/s)		日照時間(h)	雪(cm)	
			風速	風向		降雪	積雪
18	0.0	15.7	0.3	北北東	0.0	///	///
19	0.0	15.4	1.2	南		///	///



Micro seismic peak in bad weather

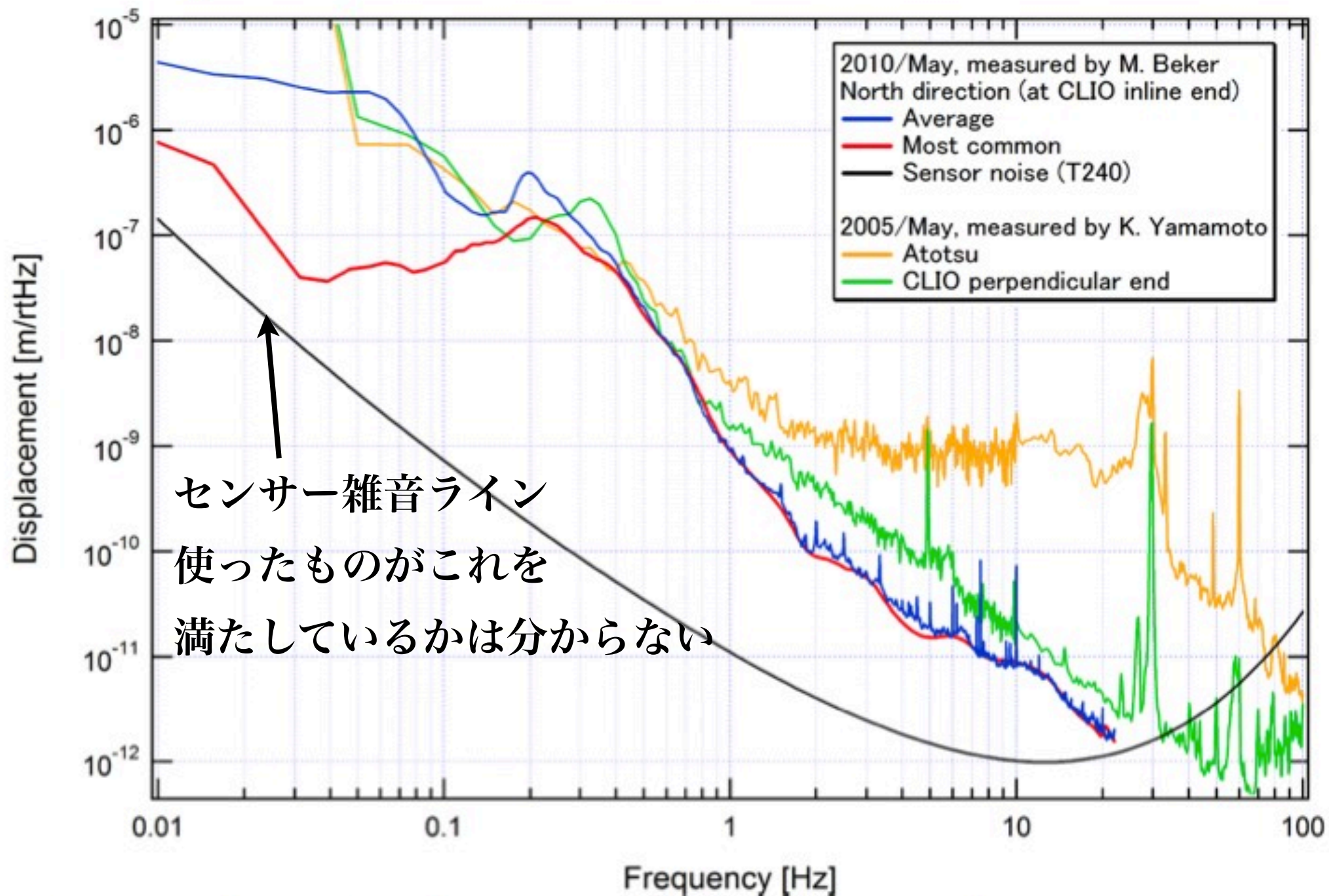


c.f. <http://iopscience.iop.org/1742-6596/122/1/012002>

Micro seismic peak can be large over one decade

<http://gwdoc.icrr.u-tokyo.ac.jp/cgi-bin/private/DocDB/ShowDocument?docid=1847>

Displacement of seismic motion



The region from 1 Hz to 20 Hz is better than what we have referred to so far.

There are 2 peaks (0.2Hz and 0.35Hz) in micro-seismic region => pacific ocean and sea of Japan?

日韓共同研究について



- 教師あり多変量解析
 - ANNを利用して、補助チャンネルのデータから雑音源を特定するプロジェクト
 - KAGRA環境データ利用
 - EMDを用いたETGパイプライン(CLIOデータ利用)



We are potentially going to study a possibility of making new Trigger generation method comparing to KW or other stuffs (e.g. X-pipeline etc).

We simply get a clue that EMD process in HHT can amplify the magnitude of trigger candidates, which means that the algorithm can generate much more glitch triggers within a given threshold, comparing to the KW method.

So firstly I am considering :

- 1) EMD-KW combined analysis
- 2) EMD only method
- 3) Trigger Generation GUI toolbox (long-term)

This may be helpful for the plan.

Best regards,
JJOh

Virgoとの共同研究について



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Initially, I wanted to propose Dec 20th but I will not be available on this date. So, I would like to propose January 17th 2014. Would it be ok for you? I will see with the other people of Virgo detachar if we can do the telecon around 9h or 10h CET (17h or 18h in Japan) so that it is a better time for you.

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Cheers,
Didier

モニタの開発状況



○ ??