

Статистический анализ волновой активности ионосферы по данным ИОНОЗОНДОВ

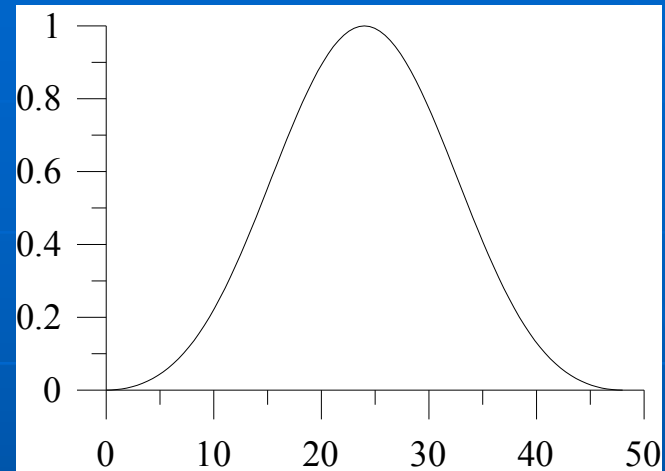
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Russian Academy of Sciences, Siberian Branch,
Irkutsk, Russia

Критерий наличия ПИВ

Окно Блэкмана

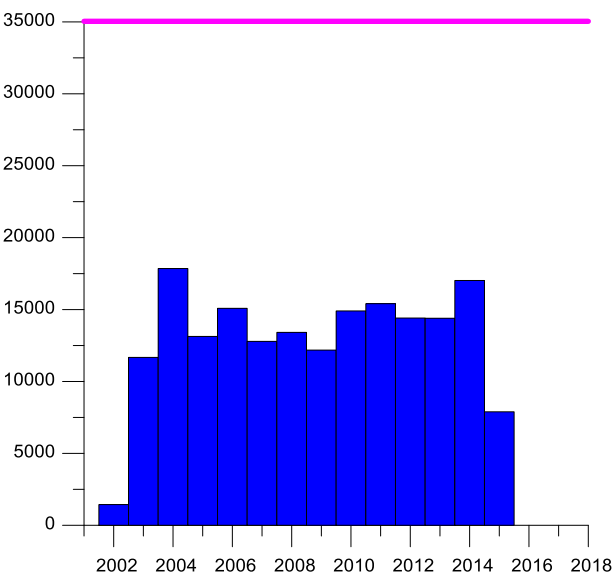
$$0.42 - \frac{1}{2} \cos\left(\frac{2\pi n}{N-1}\right) + 0.08 \cos\left(\frac{4\pi n}{N-1}\right)$$



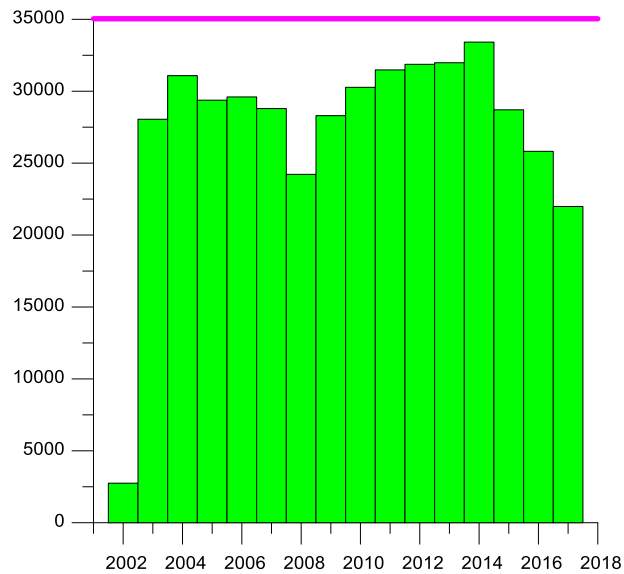
- 1) Локальный максимум в спектре на минимум трёх соседних высотах на одной и той же частоте.
- 2) Относительная амплитуда возмущения минимум 2%.
- 3) Локальный максимум превосходит по амплитуде соседние частоты минимум на 20 %.
- 4) Кажущаяся вертикальная скорость меньше 500 м/с.

Количество доступных 6 часовых окон

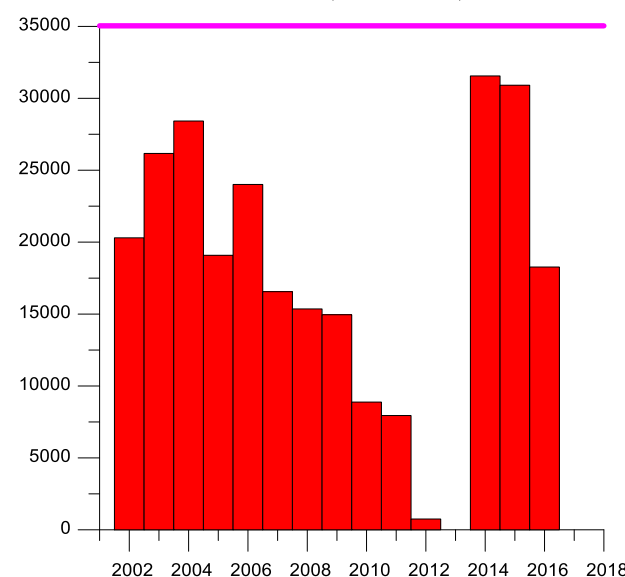
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Irkutsk(520 1040)

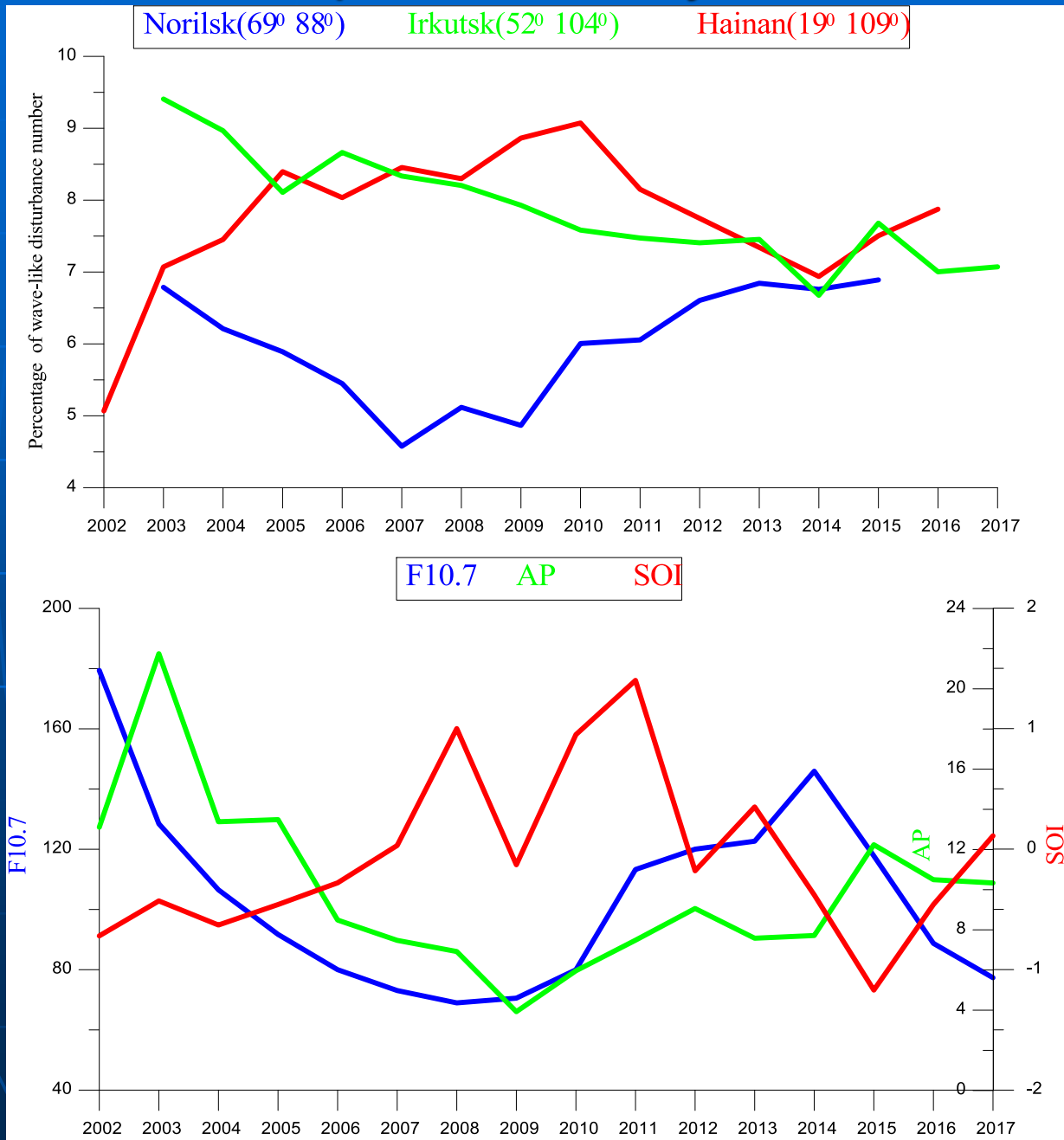


Hainan(190 1090)

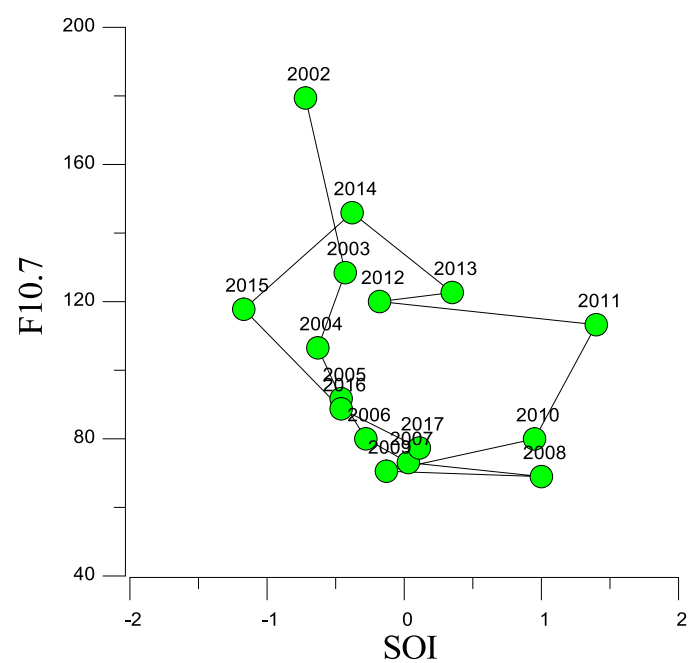
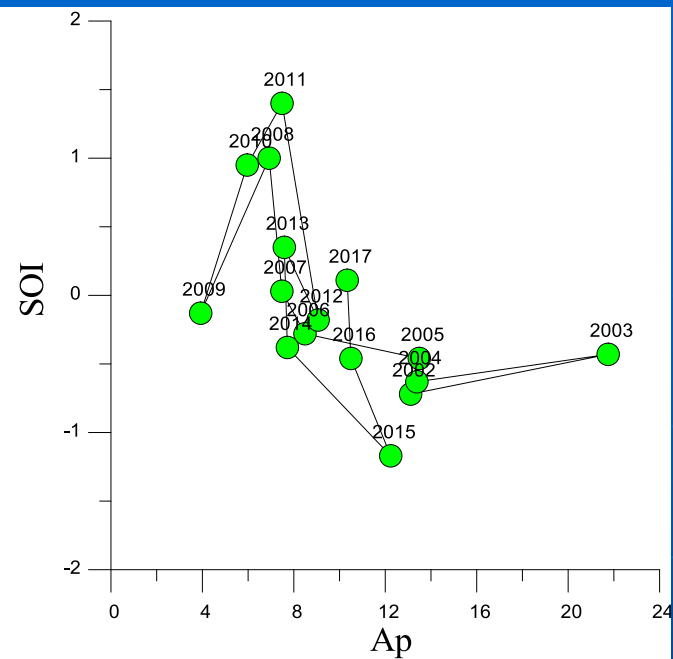
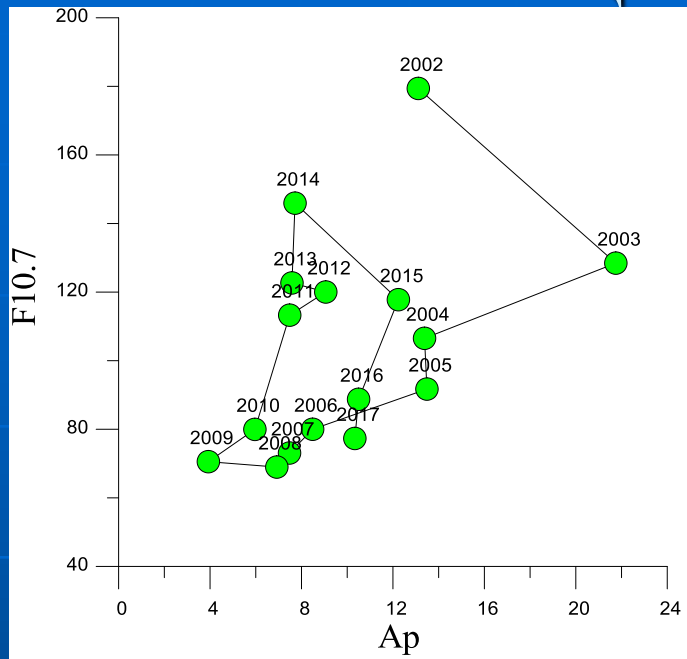


100%*Количество возмущений/Общее число окон

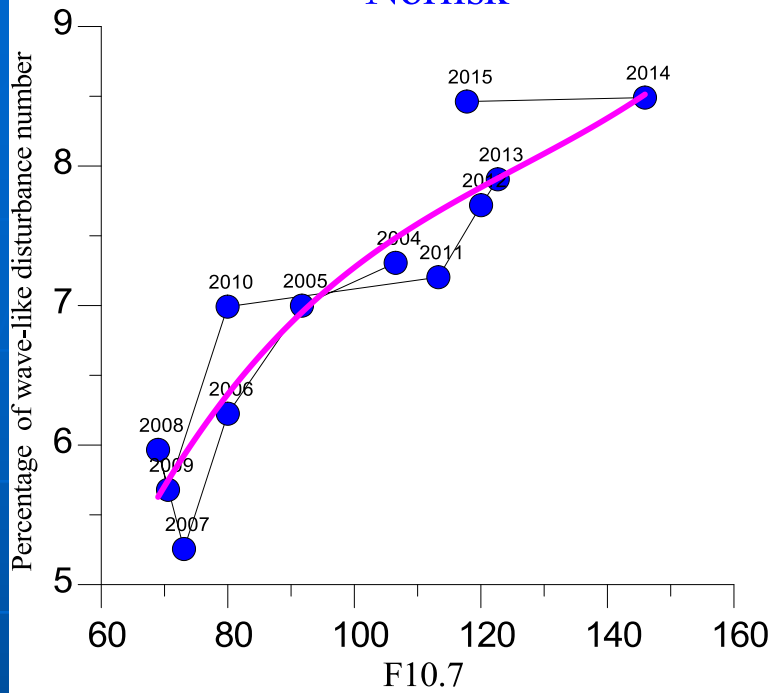
Процент волнообразных возмущений по годам



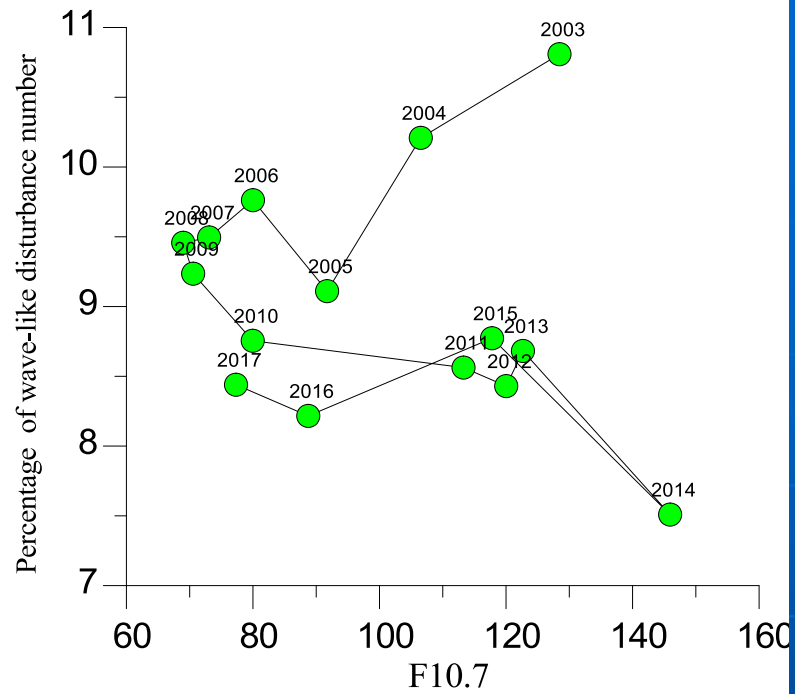
ЦИКЛЫ



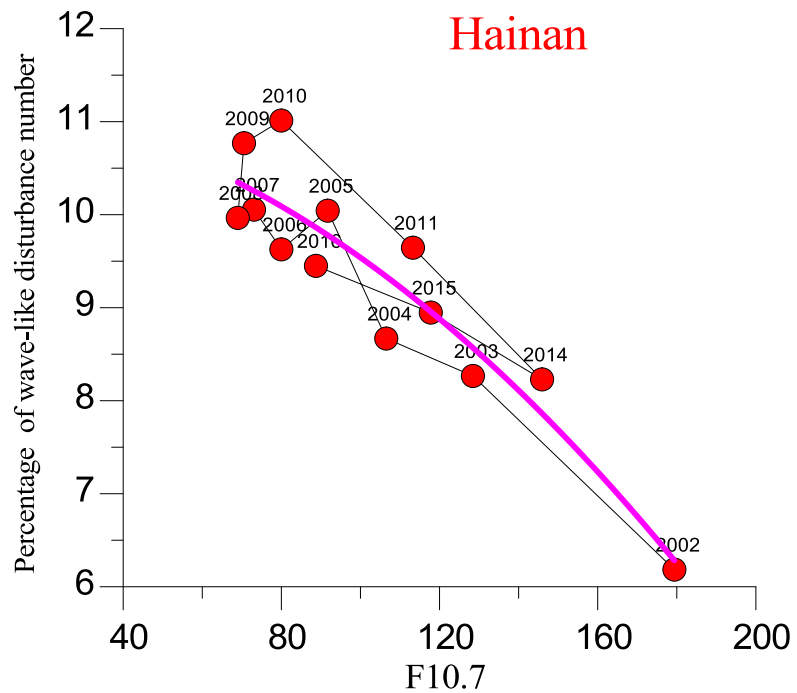
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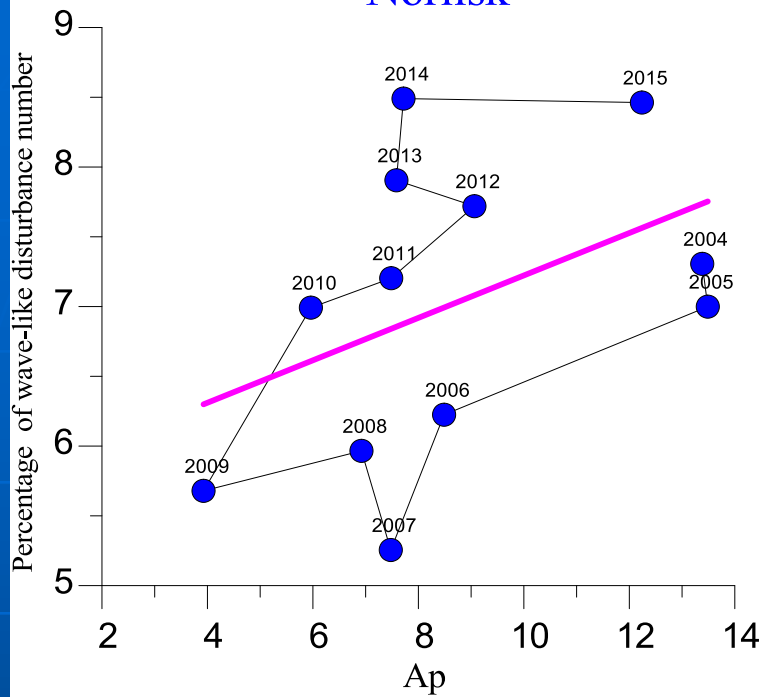
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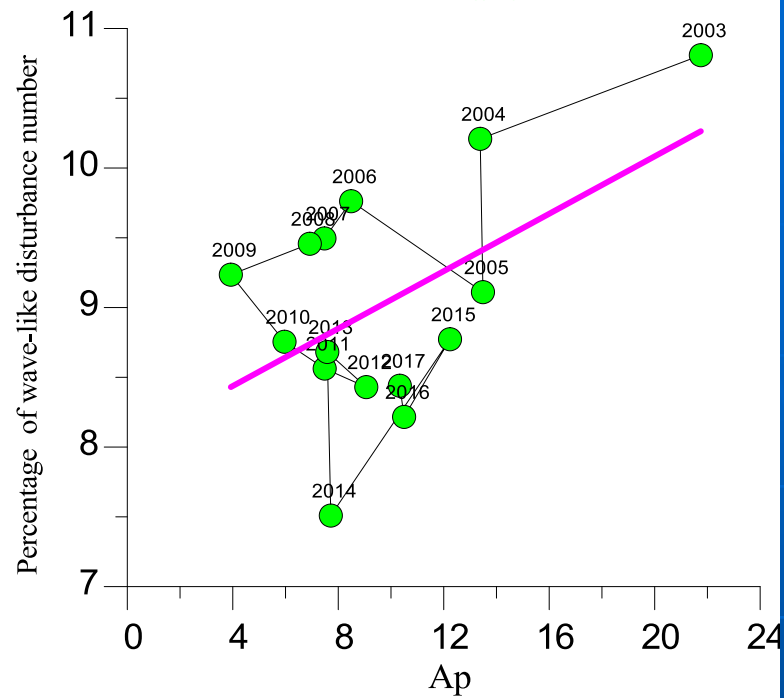
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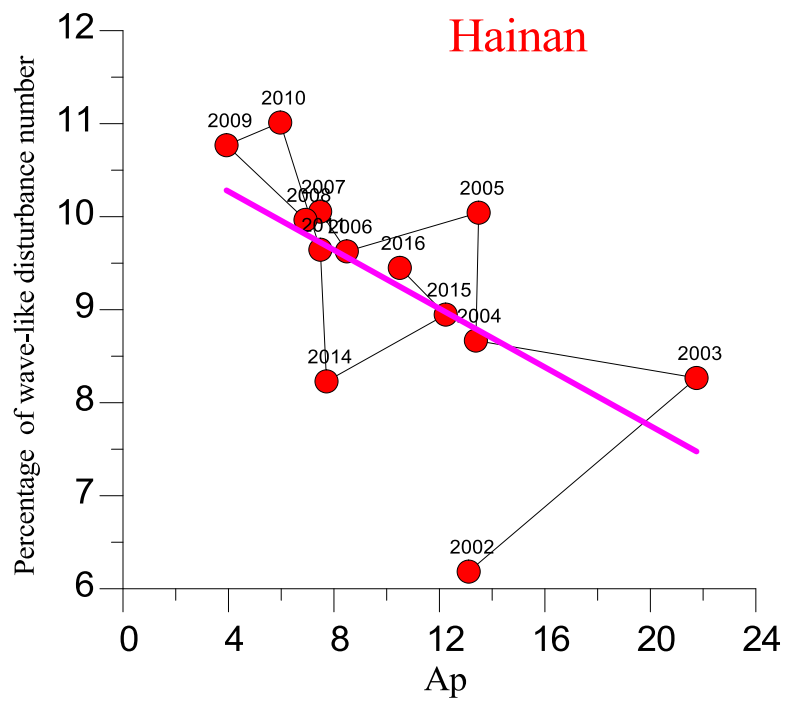
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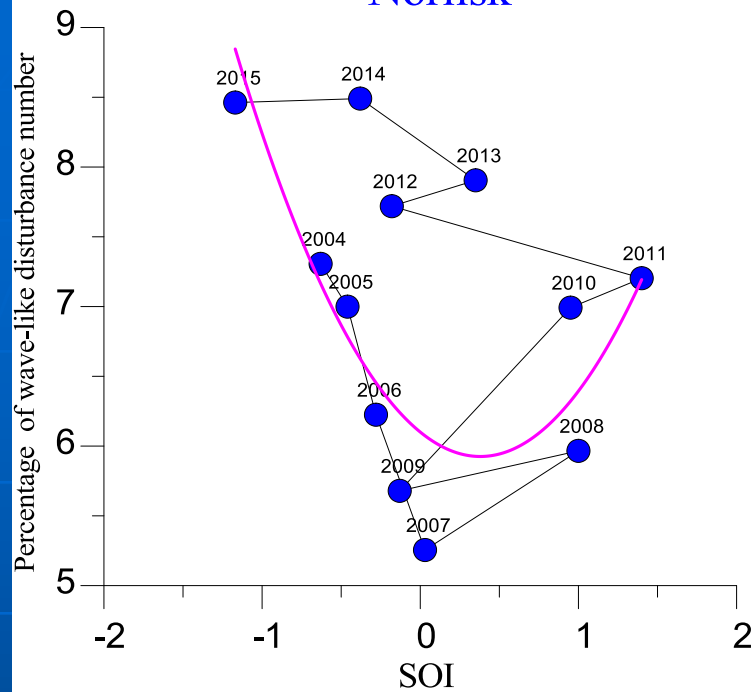
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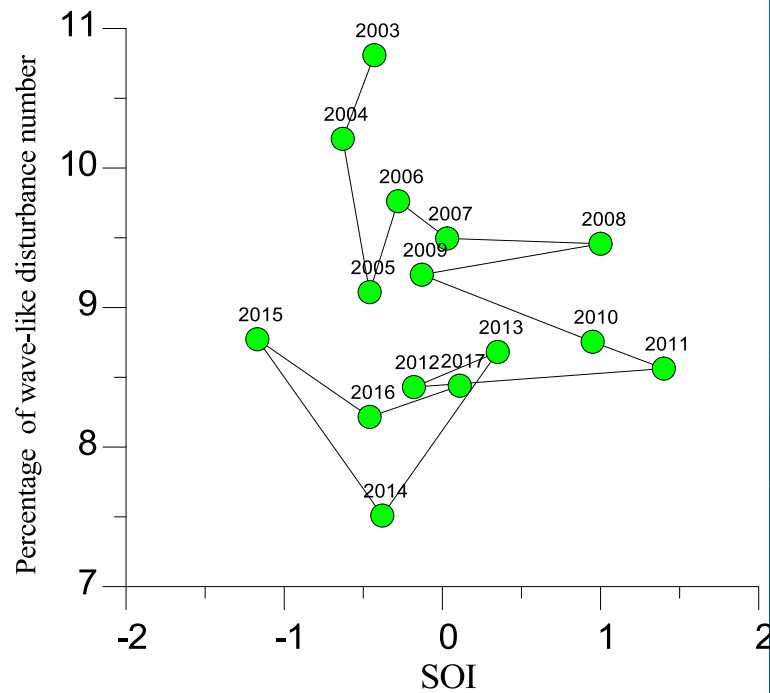
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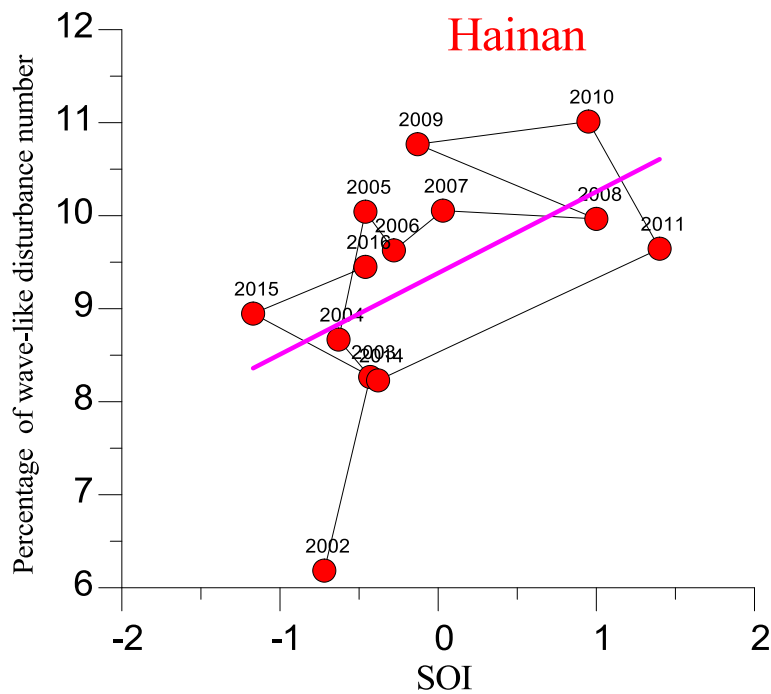
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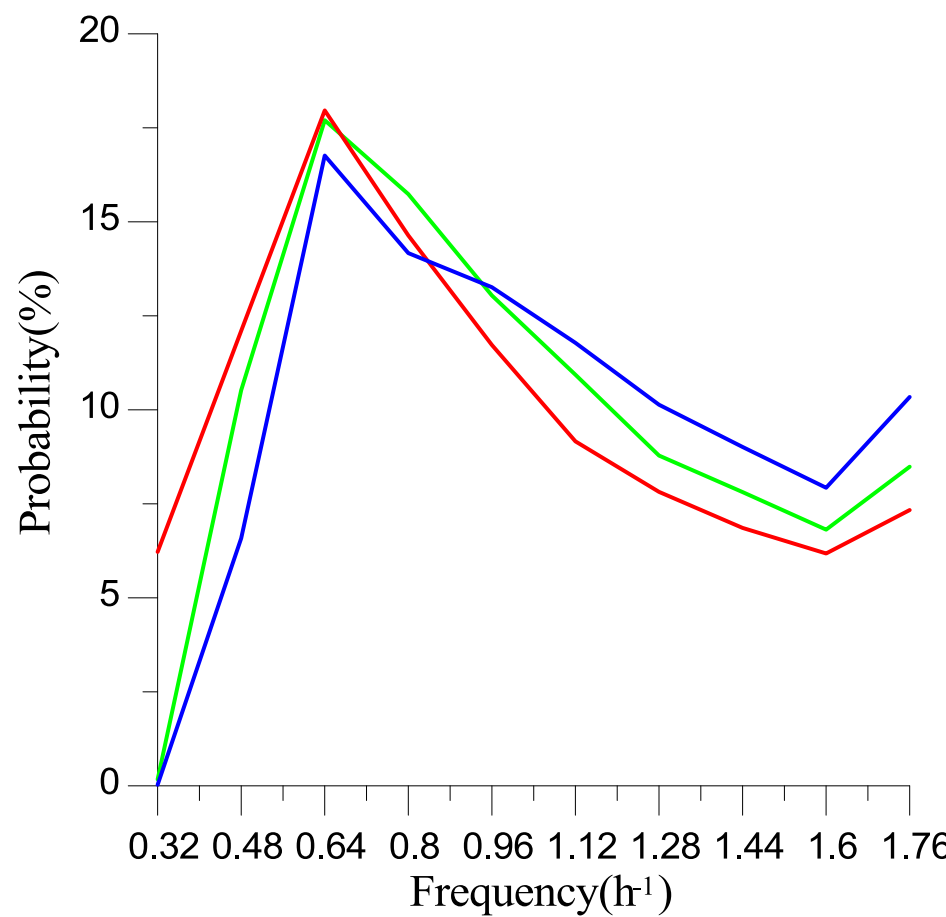
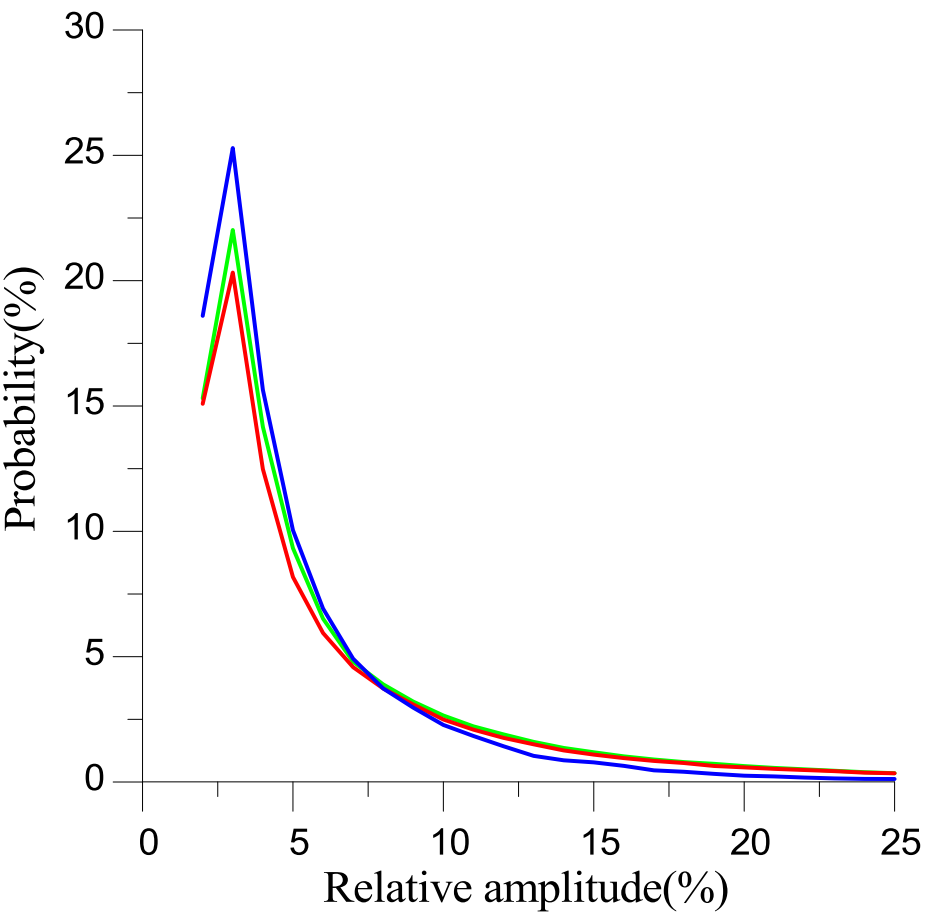
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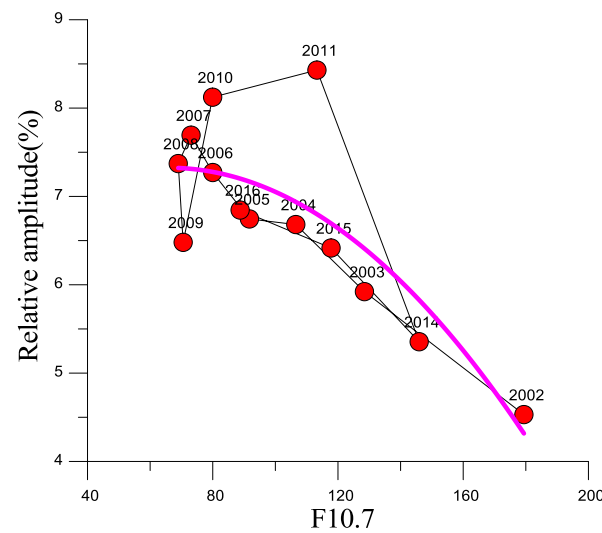
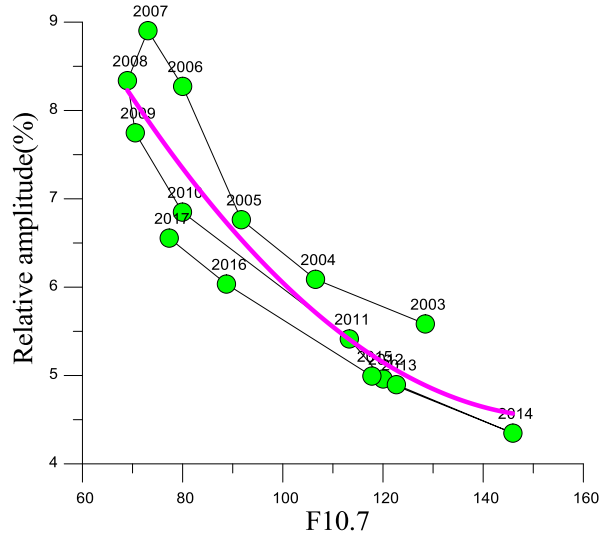
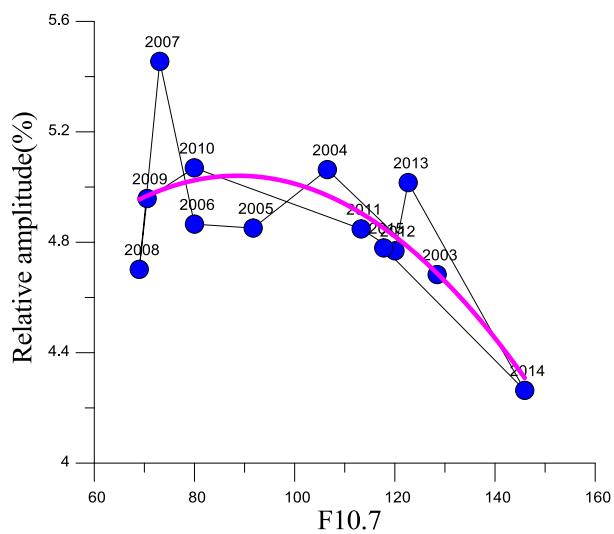
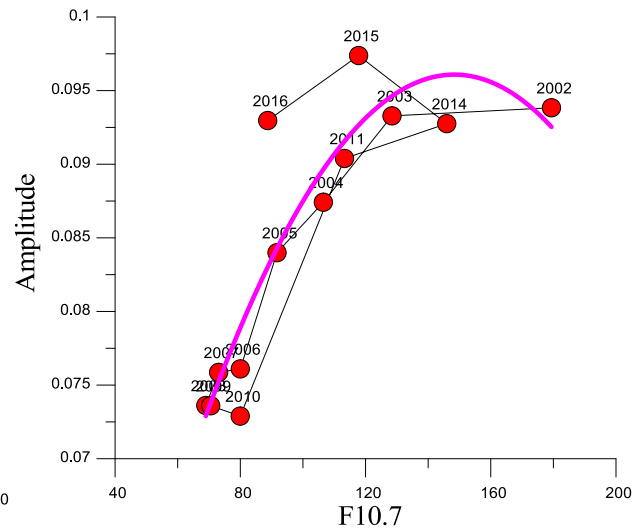
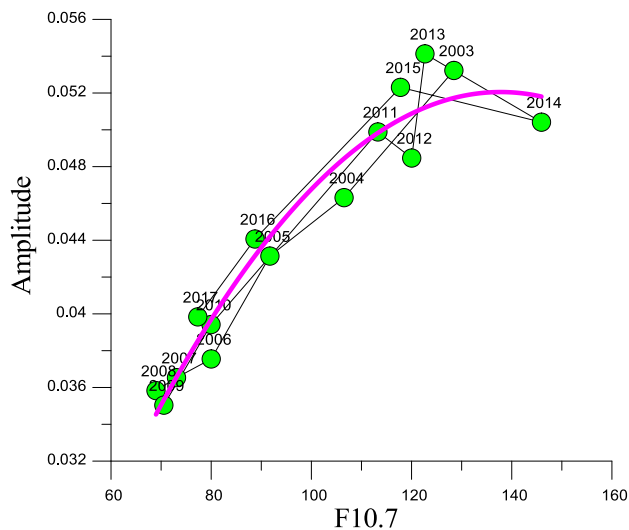
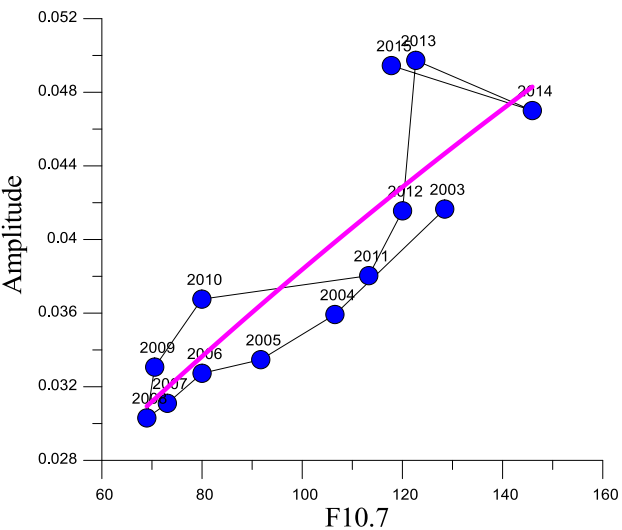
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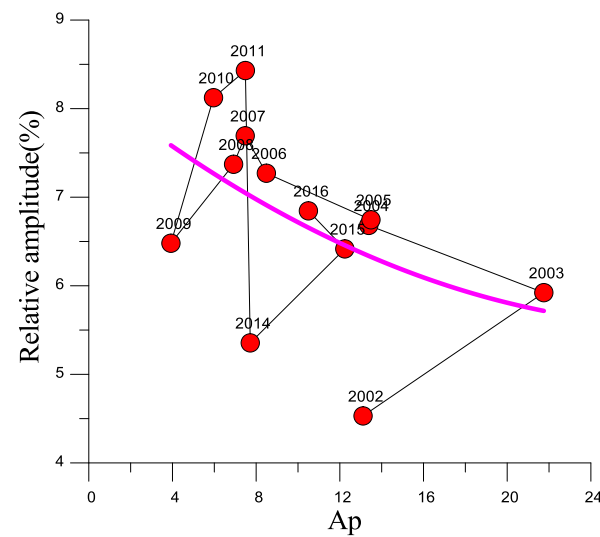
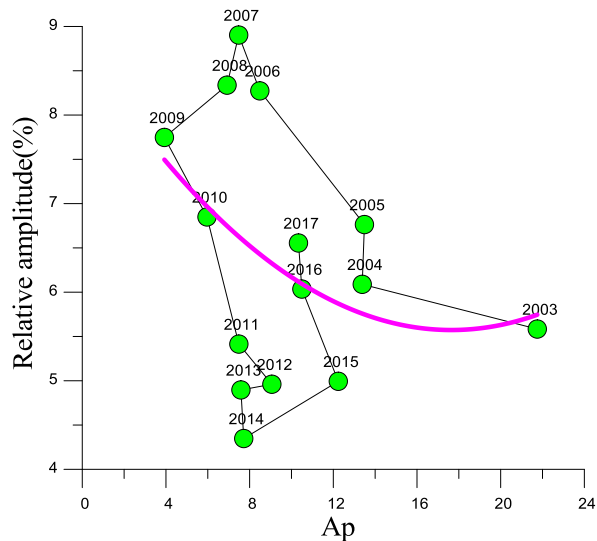
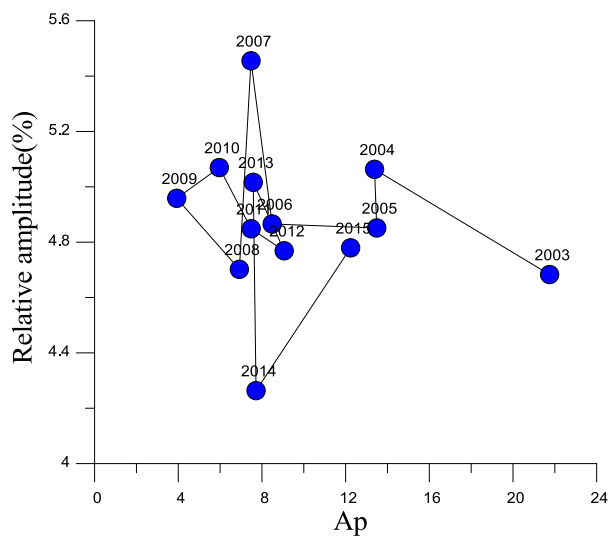
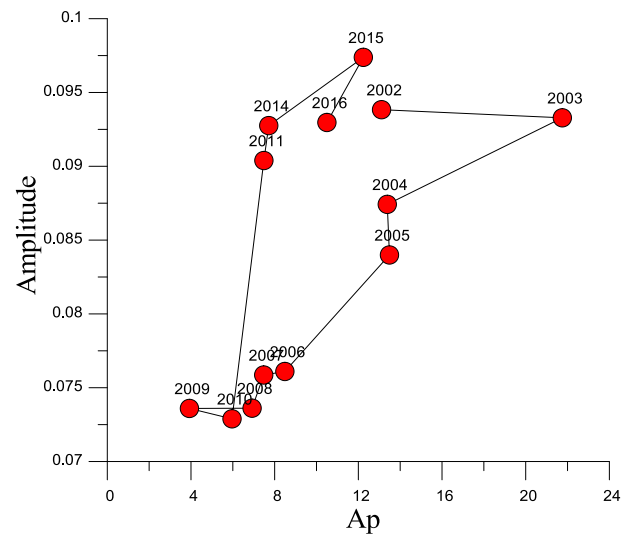
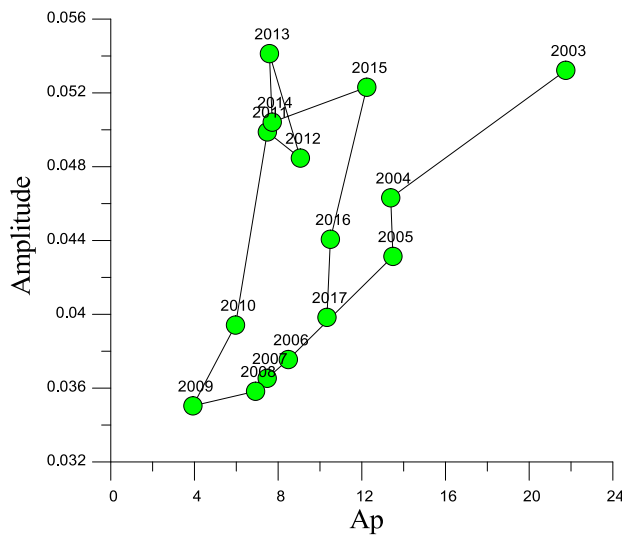
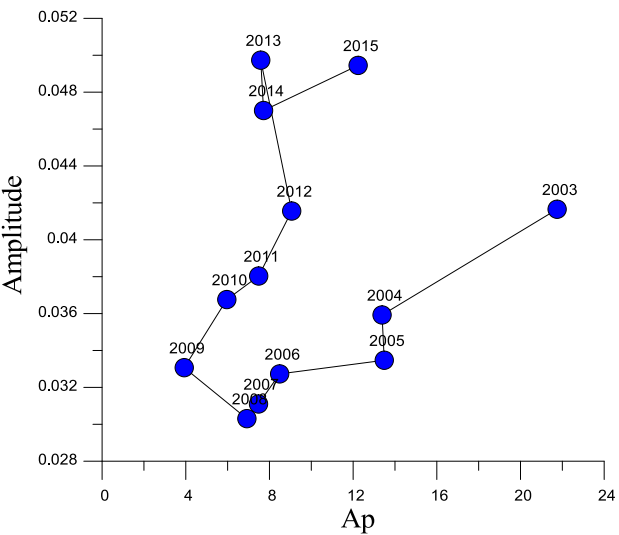
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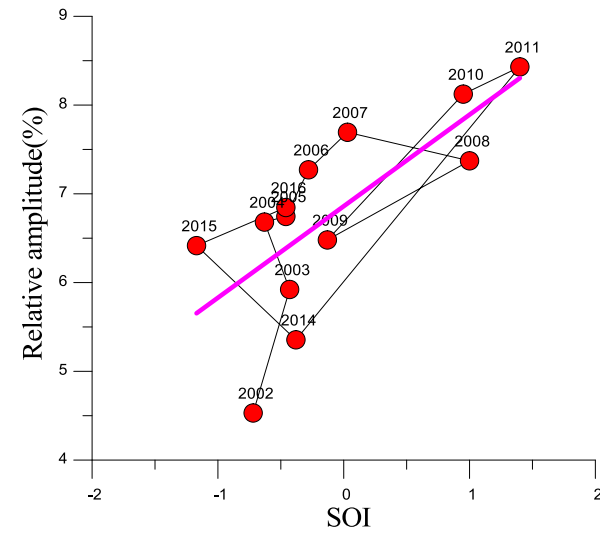
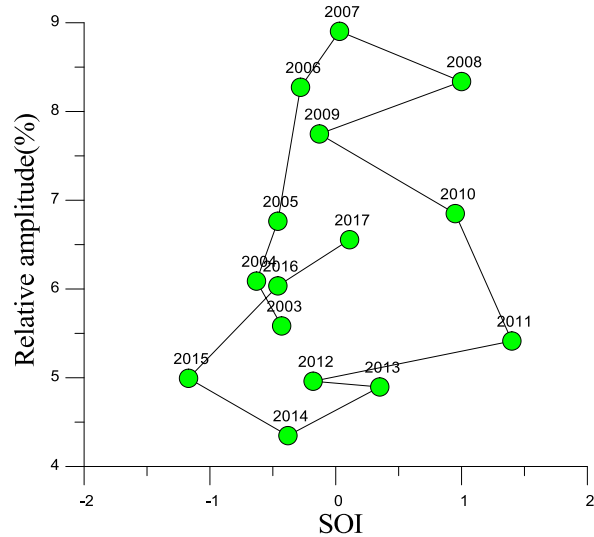
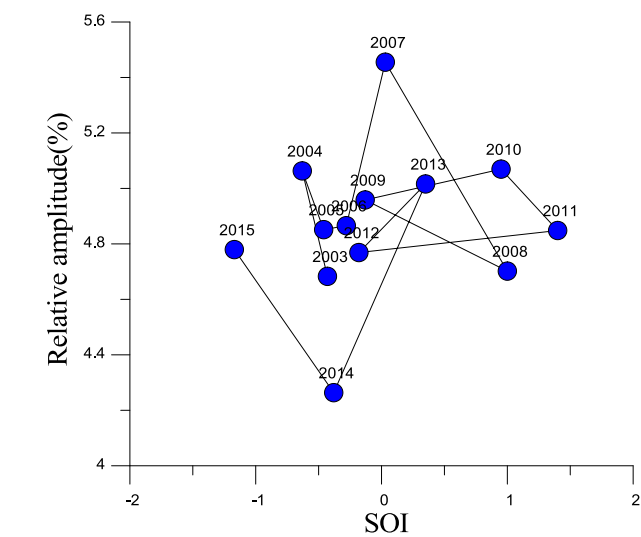
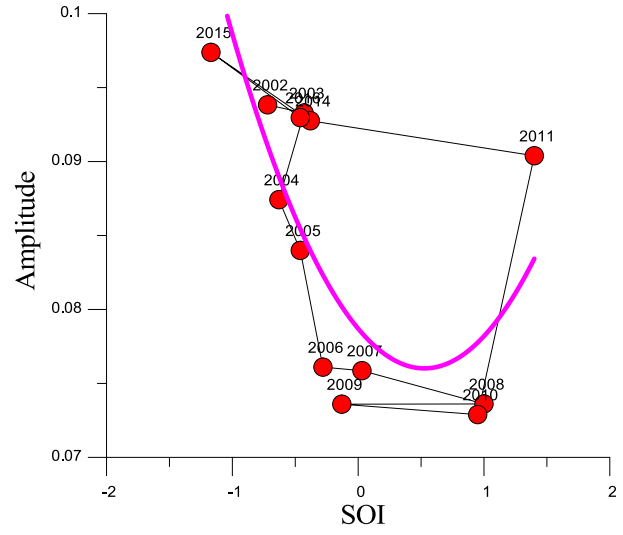
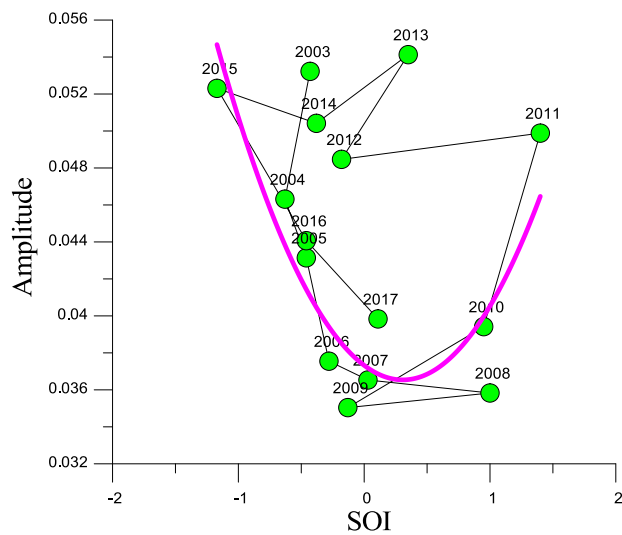
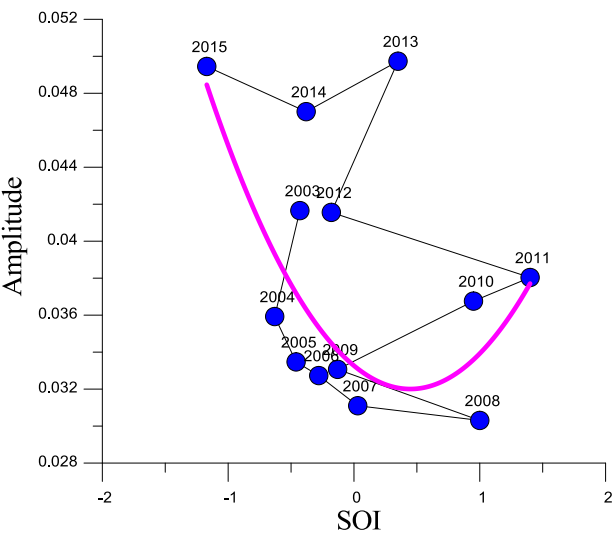
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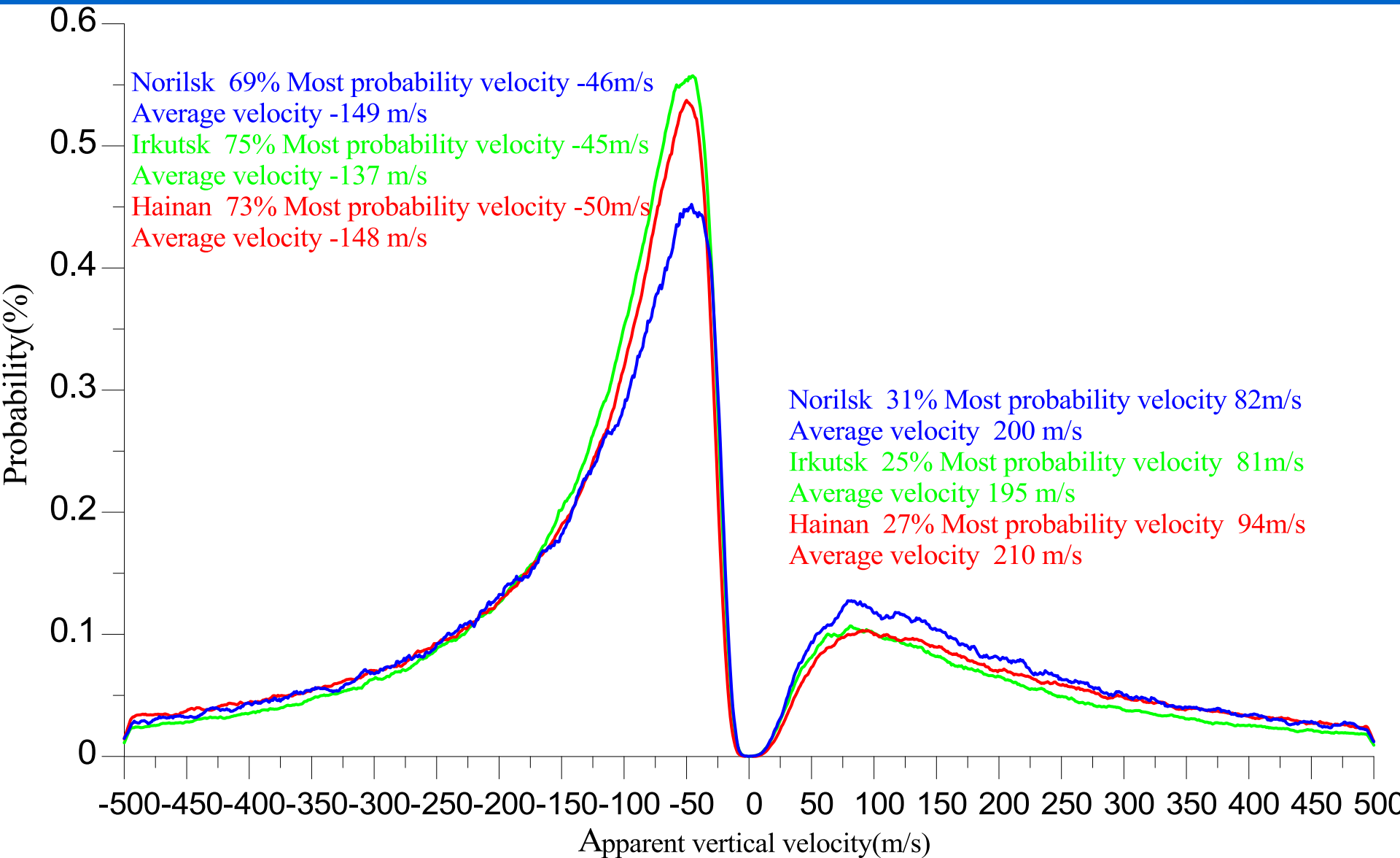


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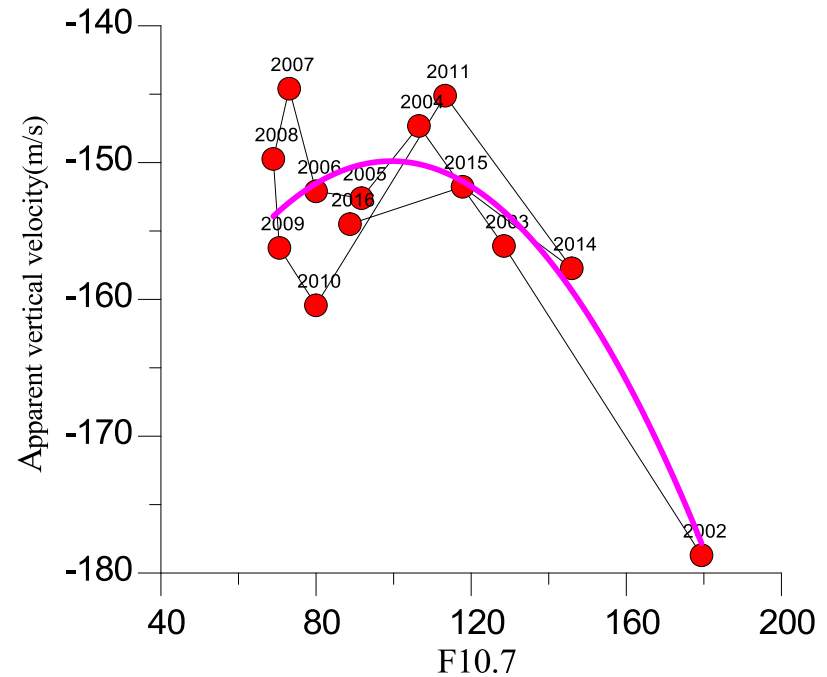
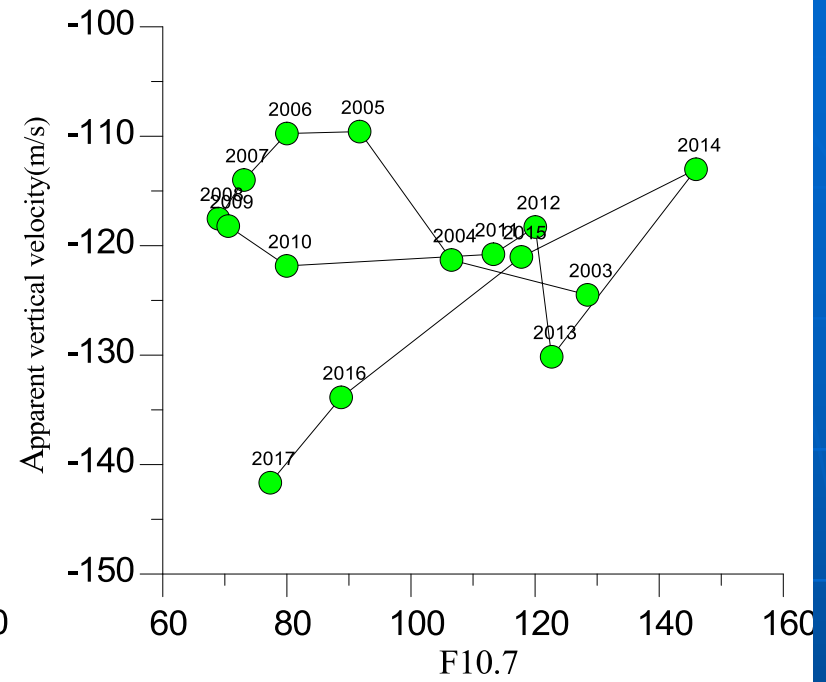
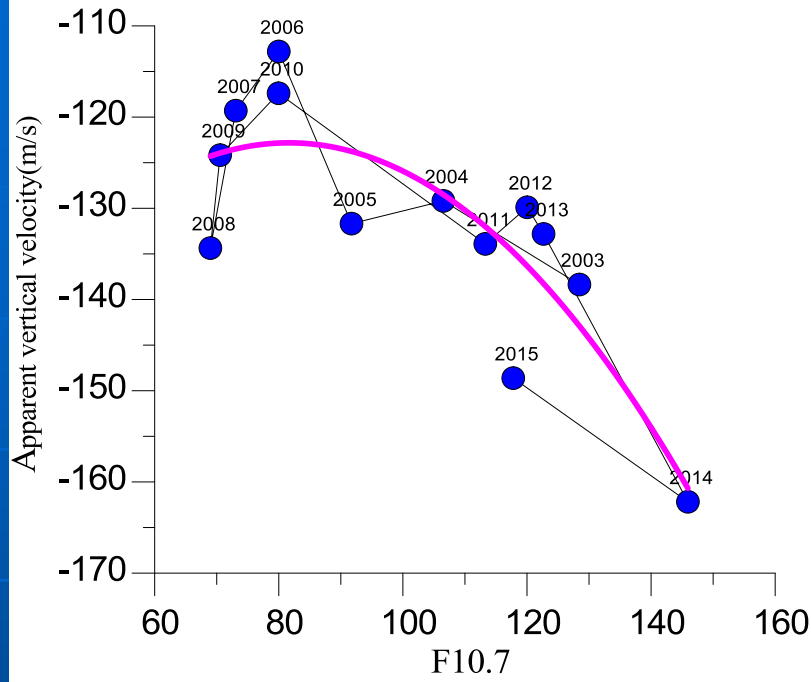




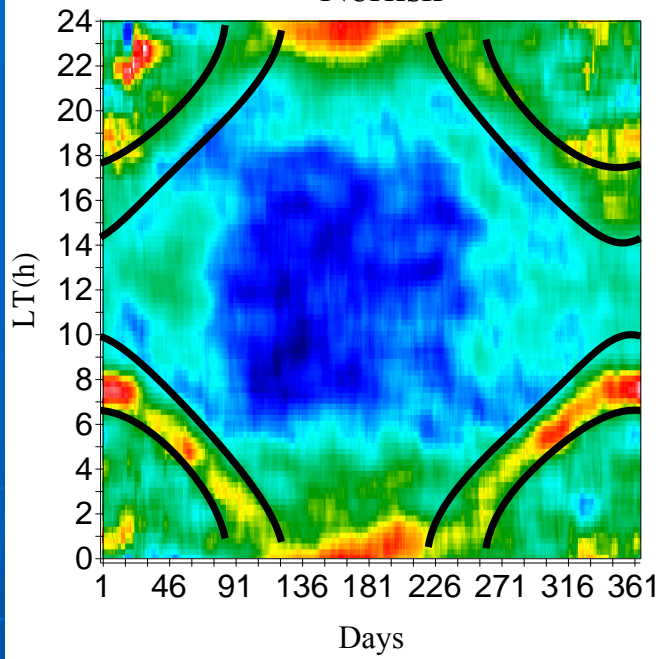
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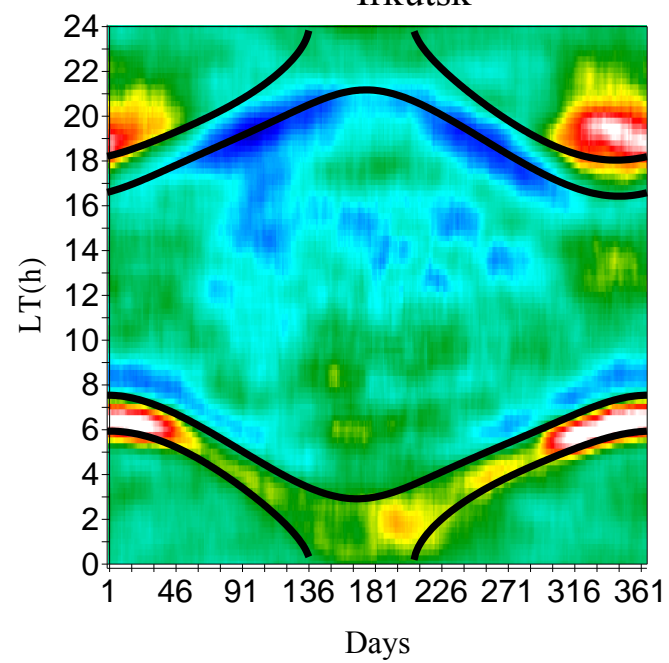
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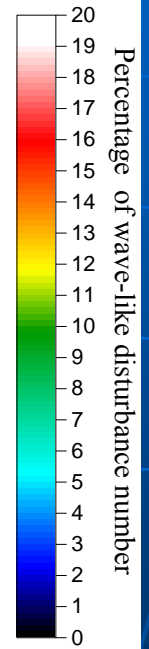
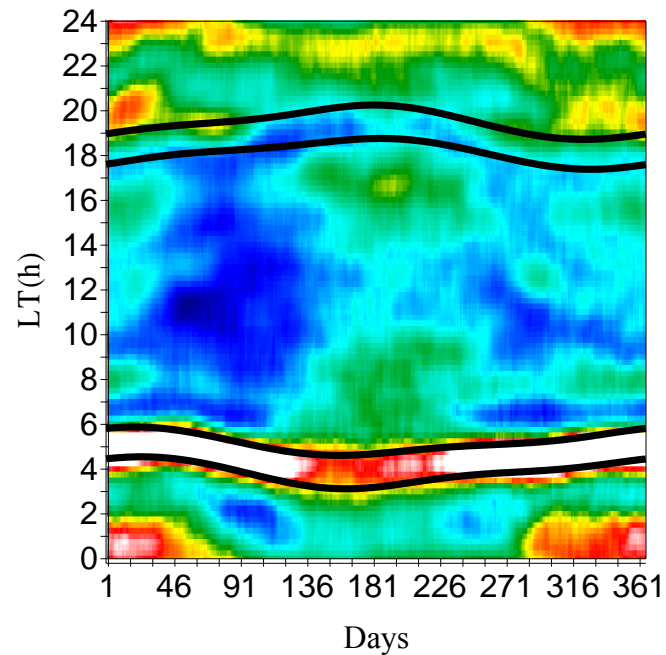
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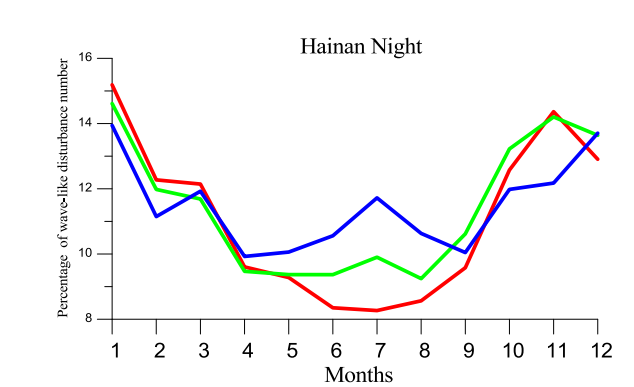
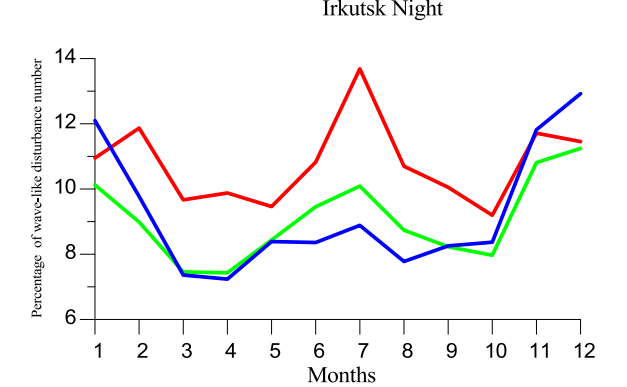
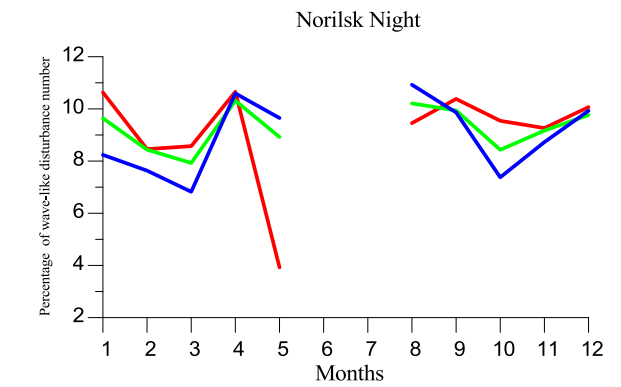
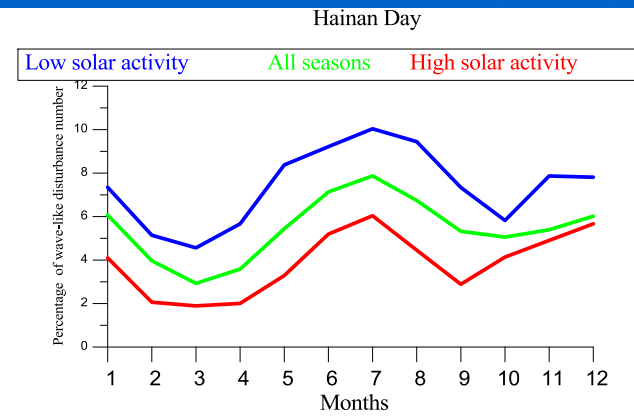
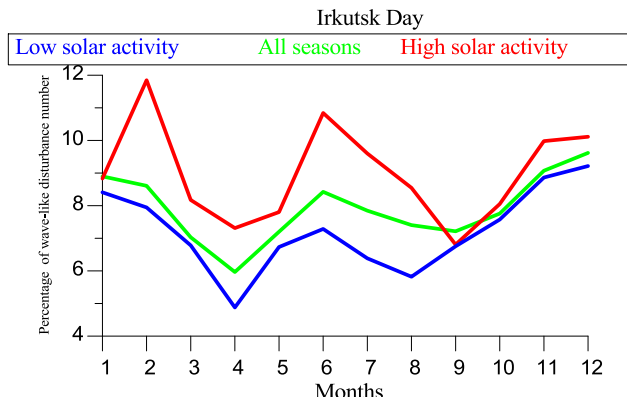
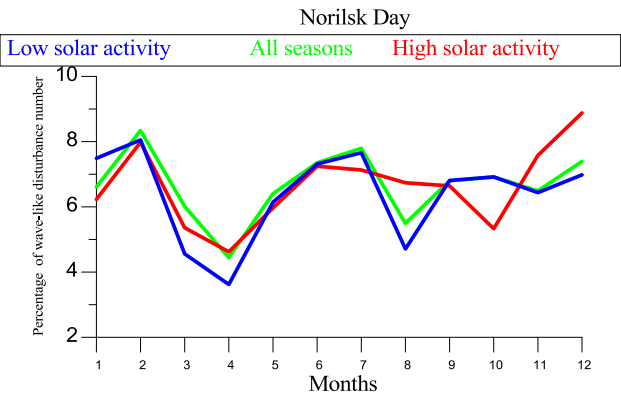


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Thank you!