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Testing the accuracy of large-scale GNSS-R applications

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Zoran Mišković, Jasna Kolašinac

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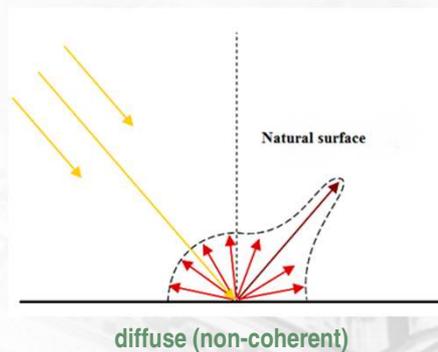
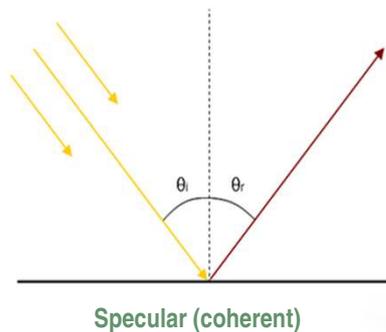
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Reflected signal in the specular point



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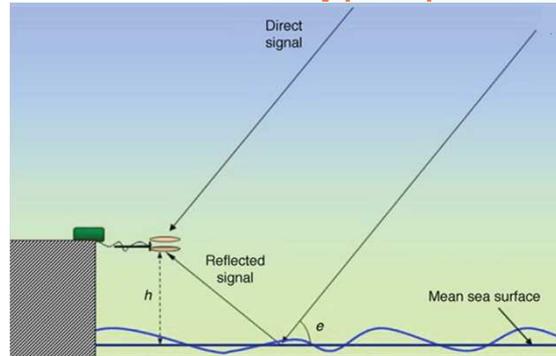




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Coastal altimetry principle



$$\tau(t) = dr - dd = 2h \sin \theta(t) + b$$

Credit:Langley, 2010)



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Experiment set-up: test field



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Experiment set-up: supporting construction



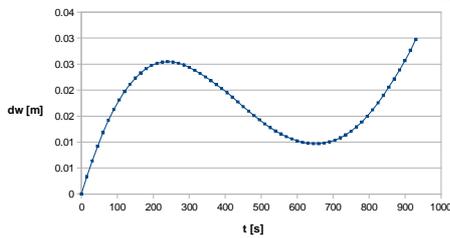
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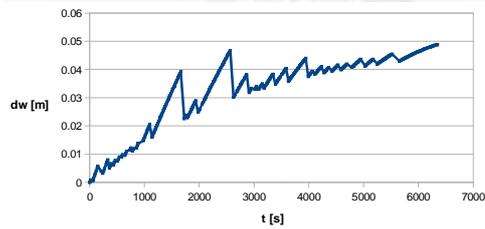
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Change of the water level mirror



SV #4



SV #6



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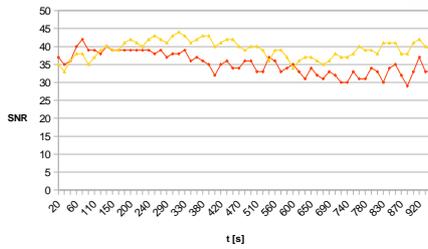




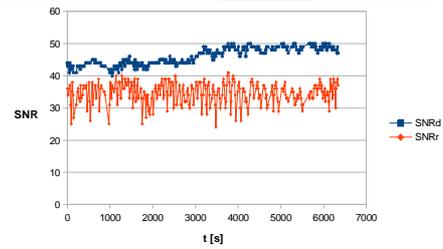
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SNR



SV #4



SV #6



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Conclusions

- Monitoring of water level changes
- Applications where quick response is needed (natural disasters)
- Importance of facility set-up
- Multi-instrumental long-term applications



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Thank you for your attention

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