

Caso di studio

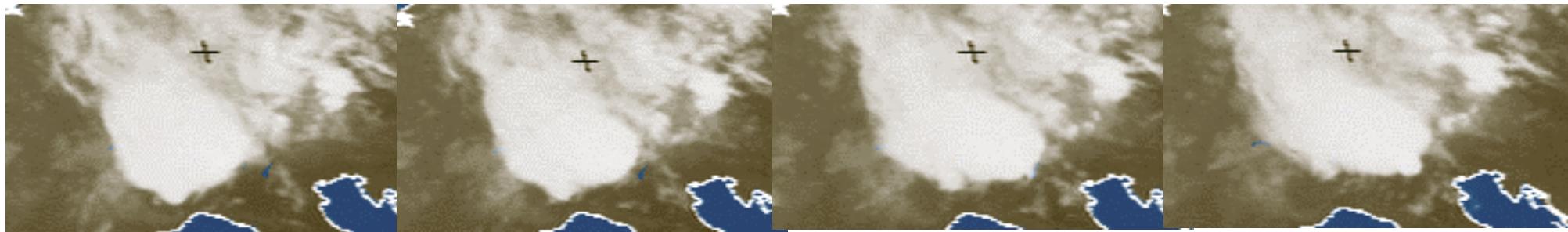
Il fronte temporalesco in Trentino Alto Adige dalle 22.00 del 27 alle 01.00 del 28 luglio 2003

Rapporto interno del 29/7/2003 a cura di Andrea Piazza e Carlo Dalpiaz- meteotrentino

Un fronte temporalesco molto intenso ha interessato nel pomeriggio del 27 luglio l'arco alpino occidentale determinando fenomeni convettivi molto intensi. Il sistema temporalesco, seppur attenuandosi nel suo moto verso levante, ha interessato anche la Provincia di Trento a cavallo della mezzanotte del 27 luglio determinando temporali diffusi con una notevole attività elettrica e forti raffiche di vento. La raffica più intensa è stata misurata a Cles con 24,8 m/s mentre la precipitazione più intensa a Serravalle con 24 mm.

Le immagini satellitari mostrano il moto verso nord est del sistema convettivo a mesoscala (MCS).

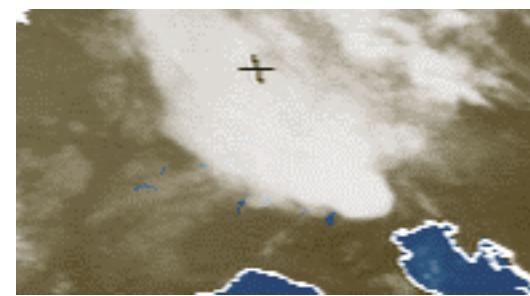
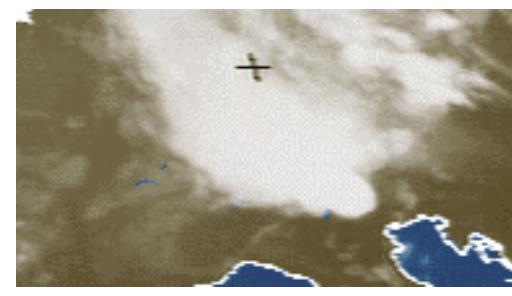
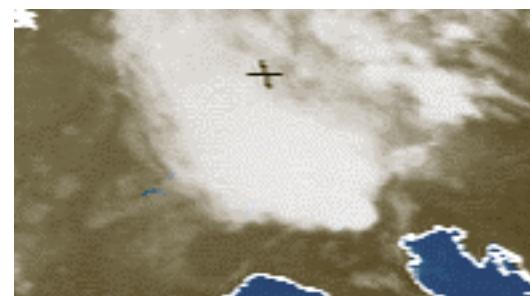
22.00 22.30 23.00 23.30



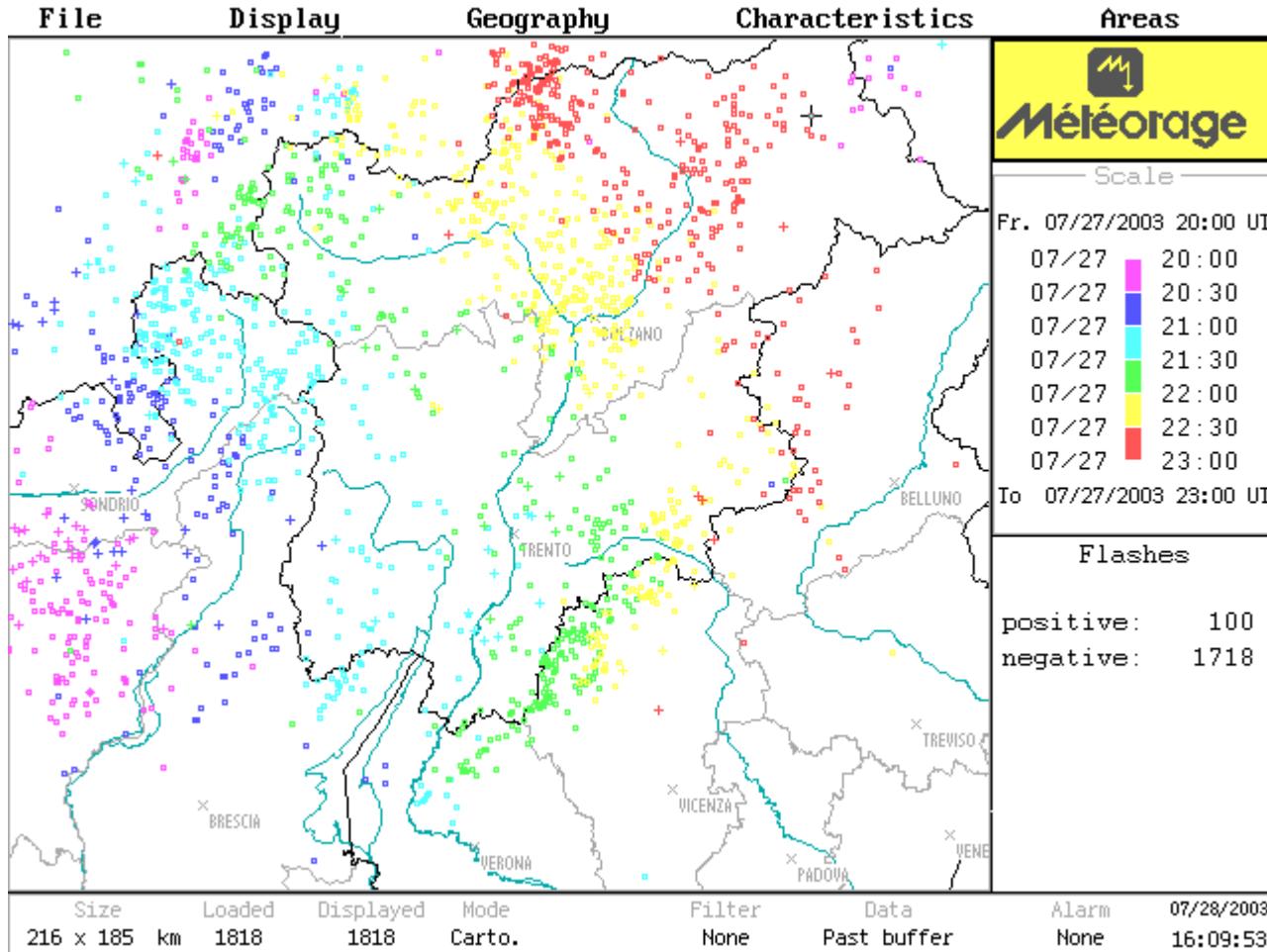
00.00

00.30

01.00

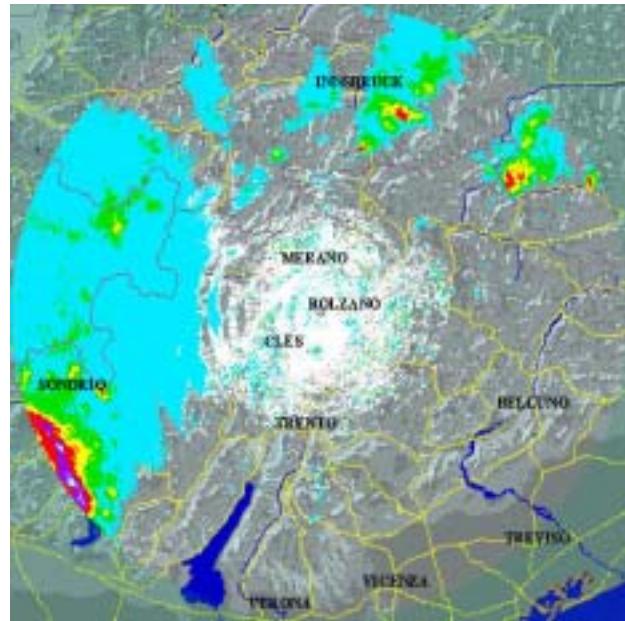


Il sistema di rilevamento fulmini del CESI mostra circa 1800 fulmini rilevati tra le 22 del 27 e le 01.00 del 28 luglio

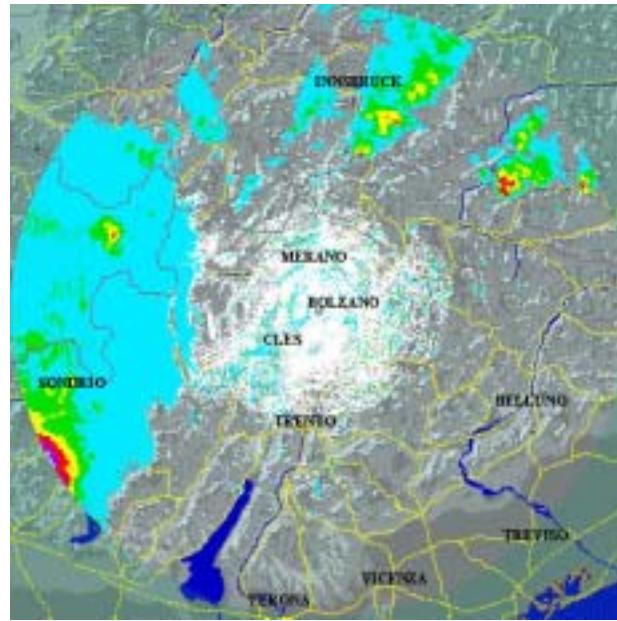


Le immagini radar del monte Macaion mostrano l'evoluzione rulla regione del fronte temporalesco.

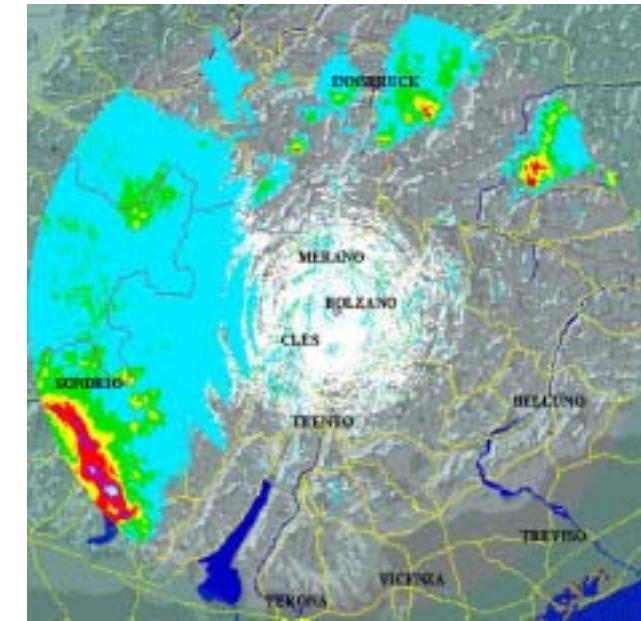
22.18



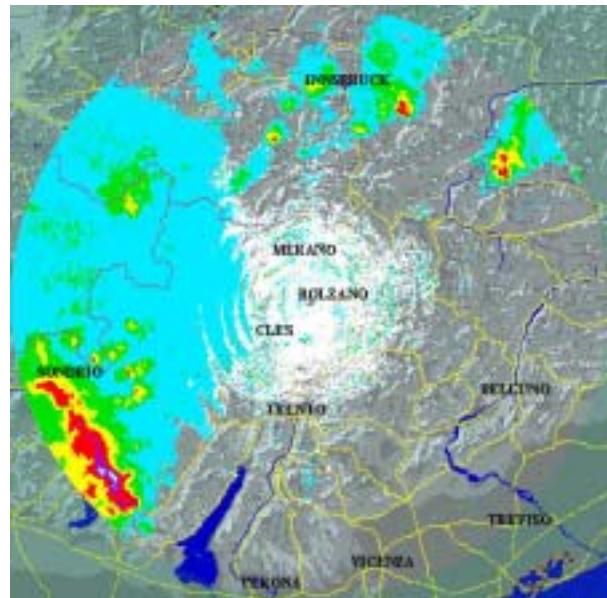
22.24



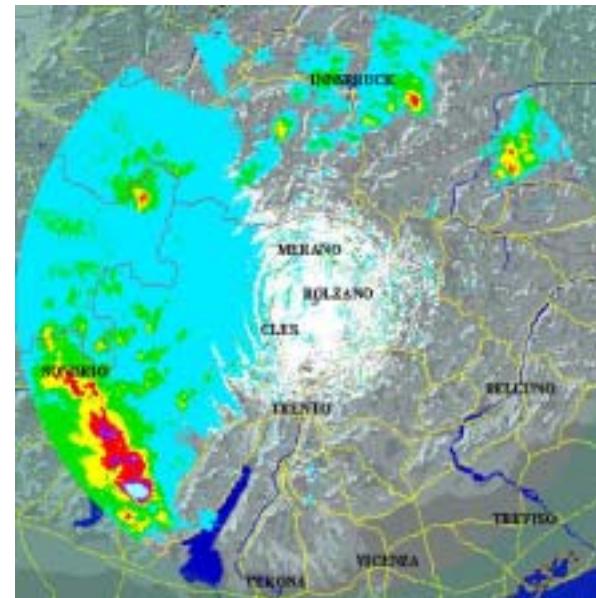
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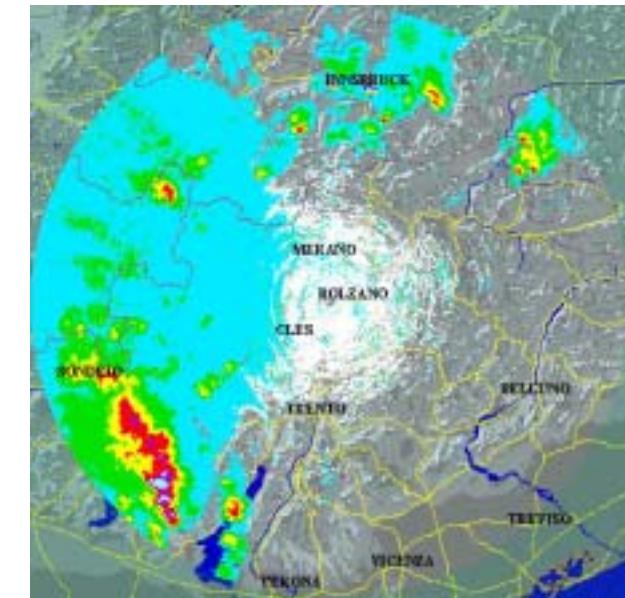
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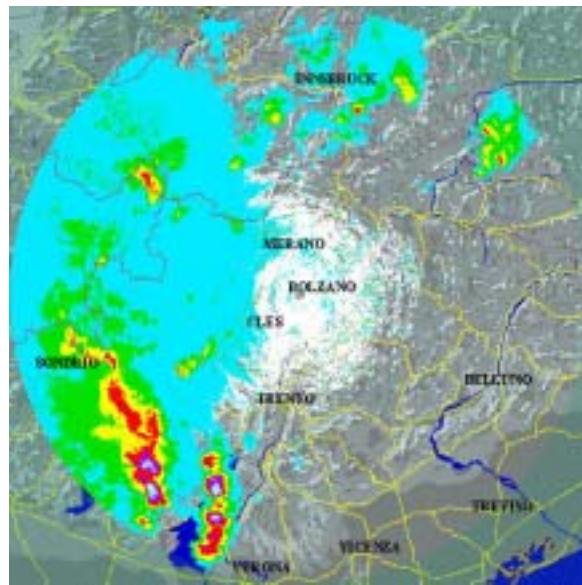
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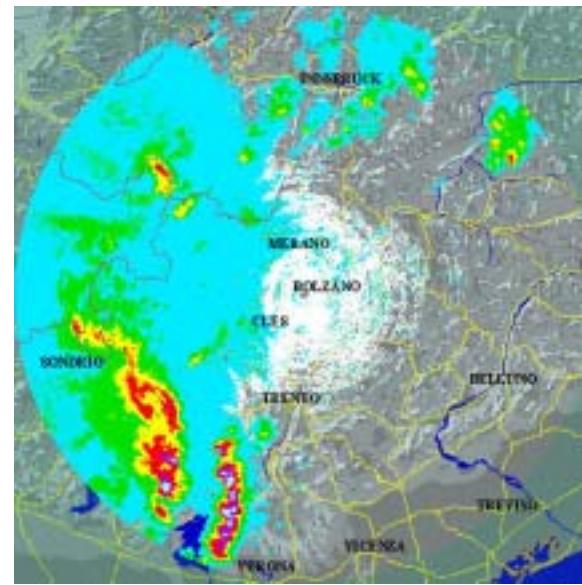
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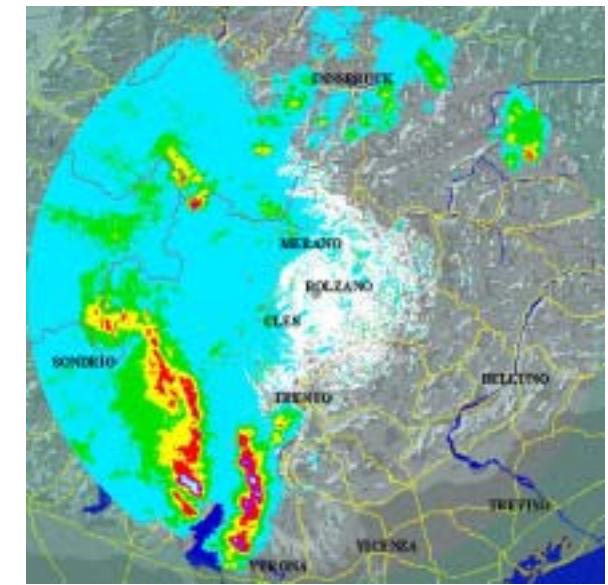
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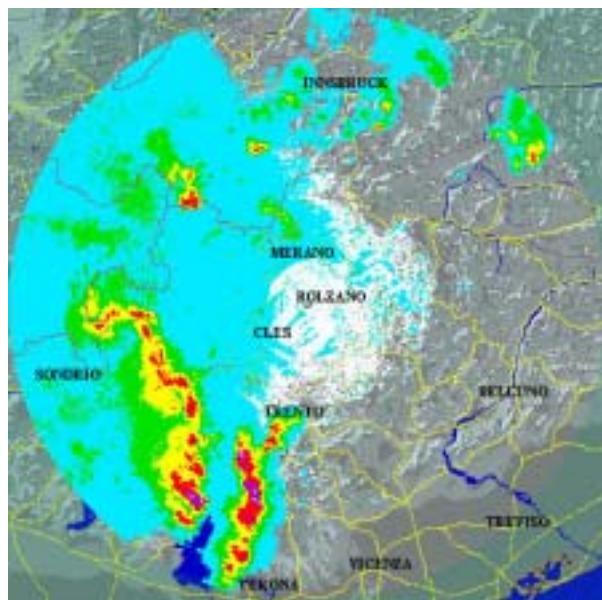
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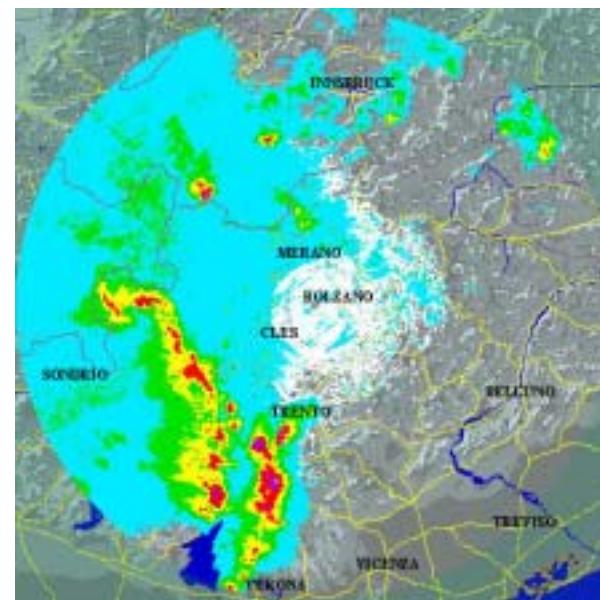
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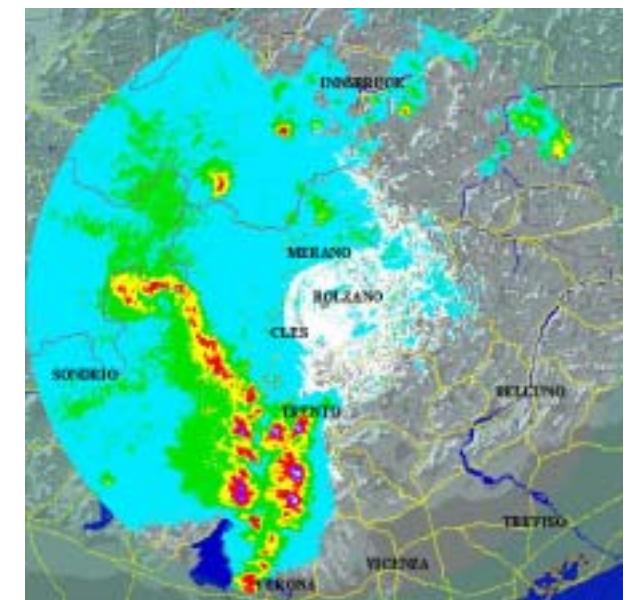
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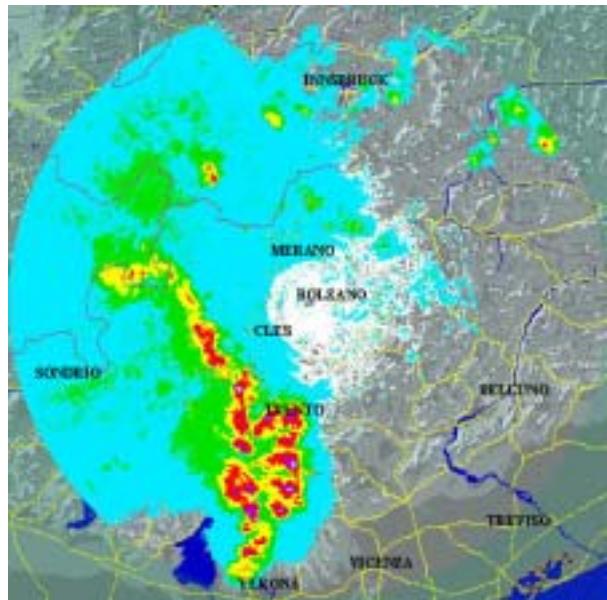
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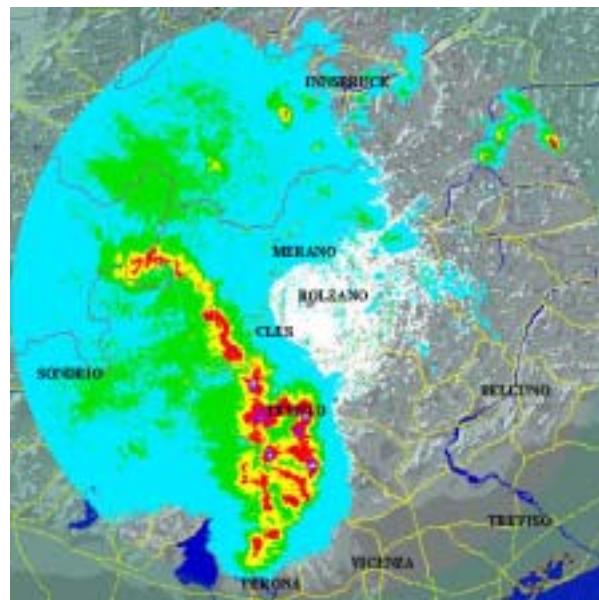
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23.30



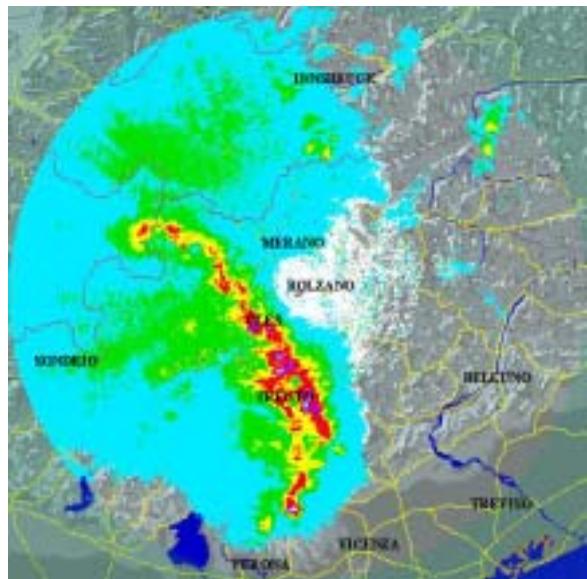
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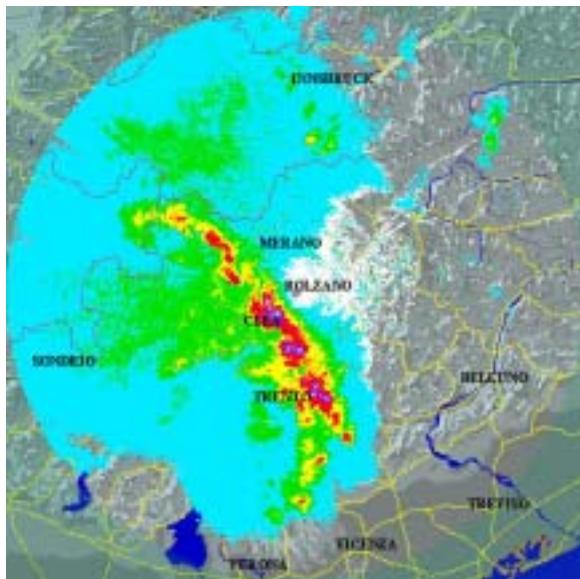
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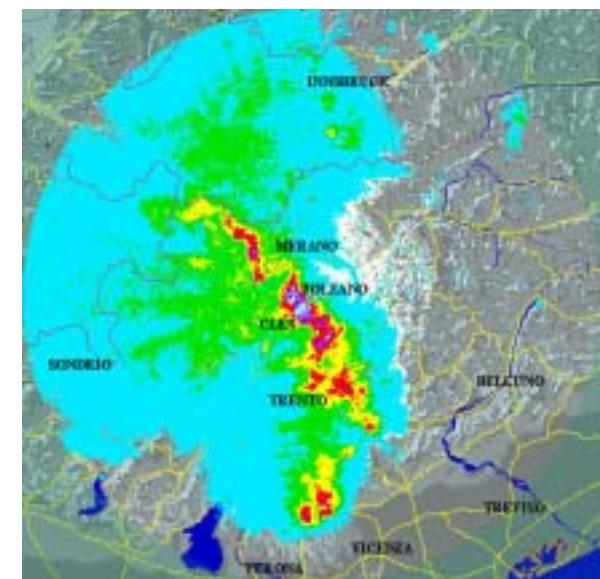
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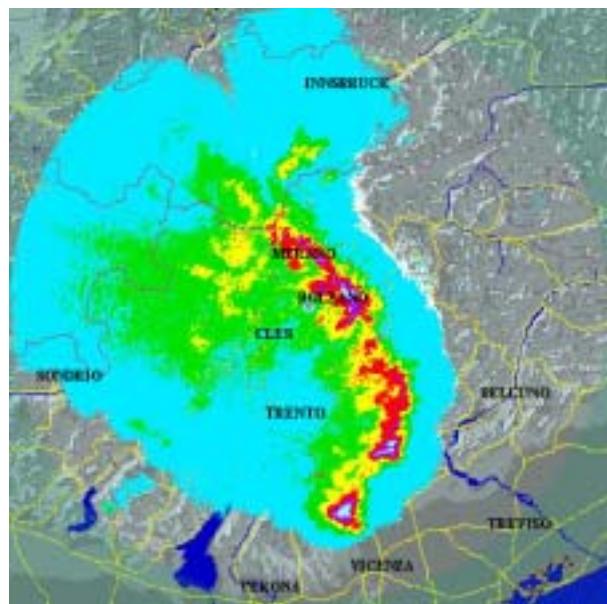
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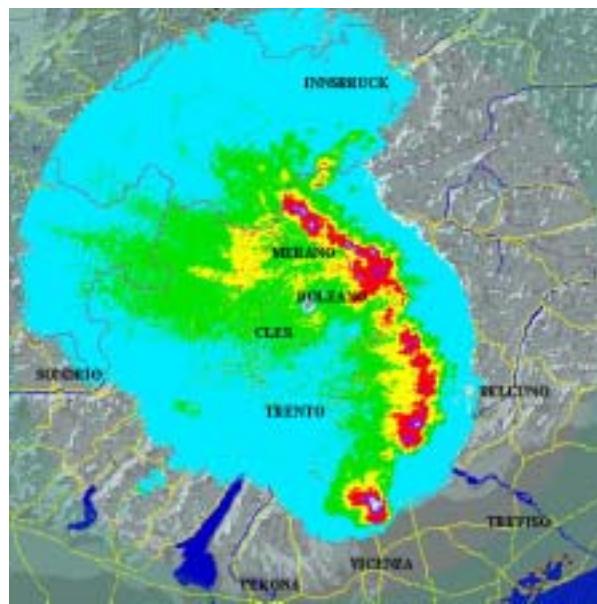
24.00



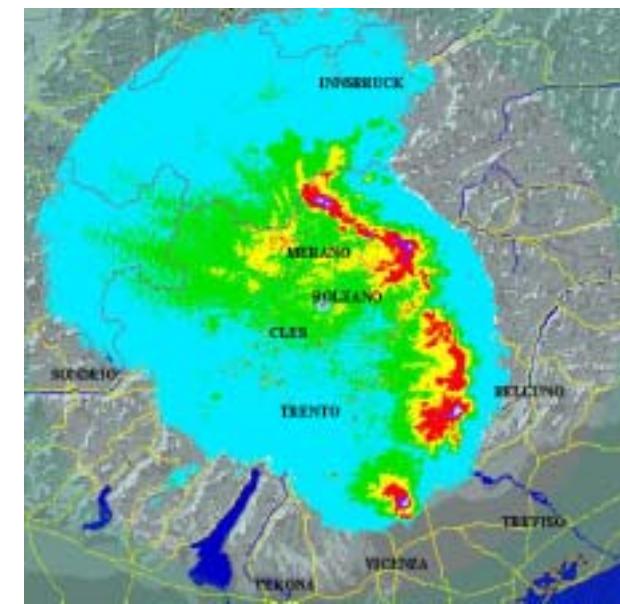
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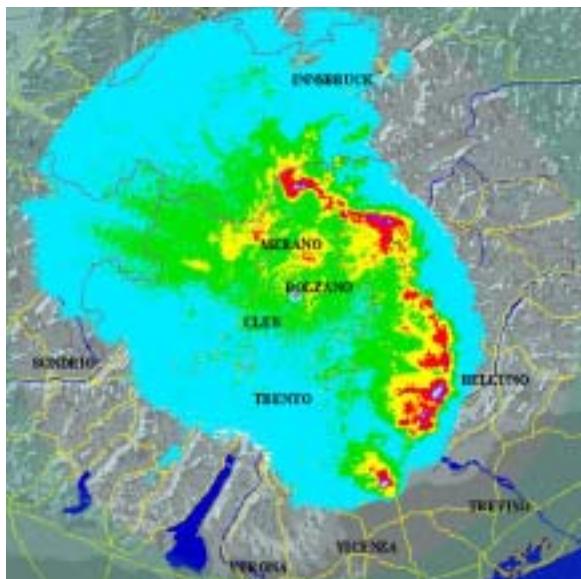
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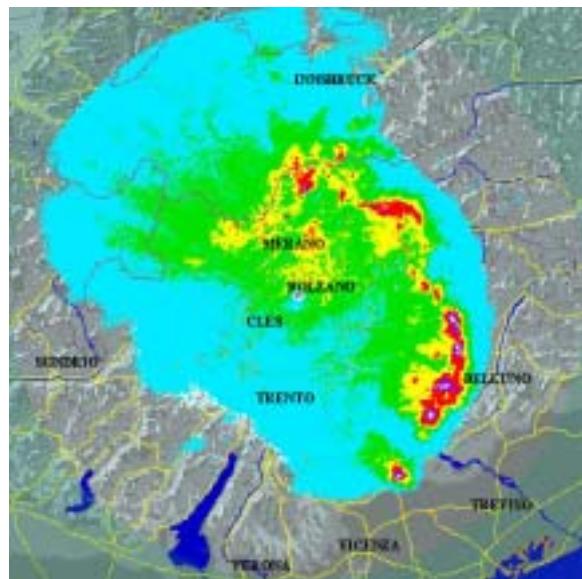
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00.42



00.48

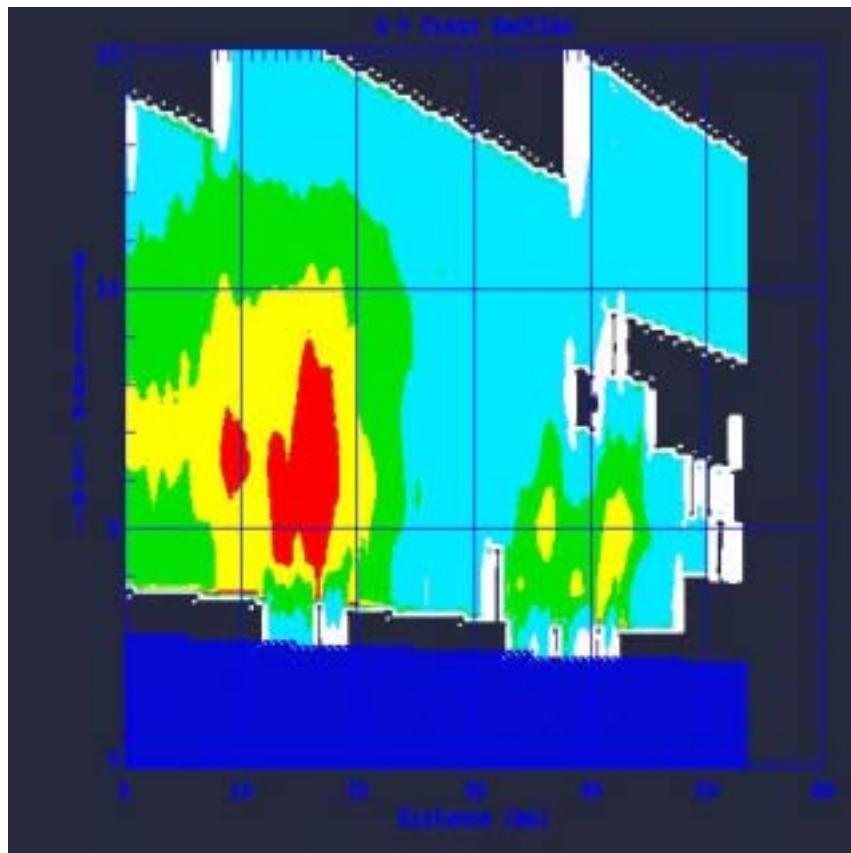


00.52



E' interessante notare nelle immagini dalle 22.42 alle 24.00 la formazione di un secondo fronte temporalesco davanti al fronte originario nel Trentino meridionale probabilmente originato dall'aria fredda discendente dal fronte originale. Una sezione ovest - est da Storo al Garda mostra la struttura verticale di tale sistema.

22.30



23.12

