

LiDAR and Multispectral Imagery for the Tahoe Basin



Tahoe Science Conference

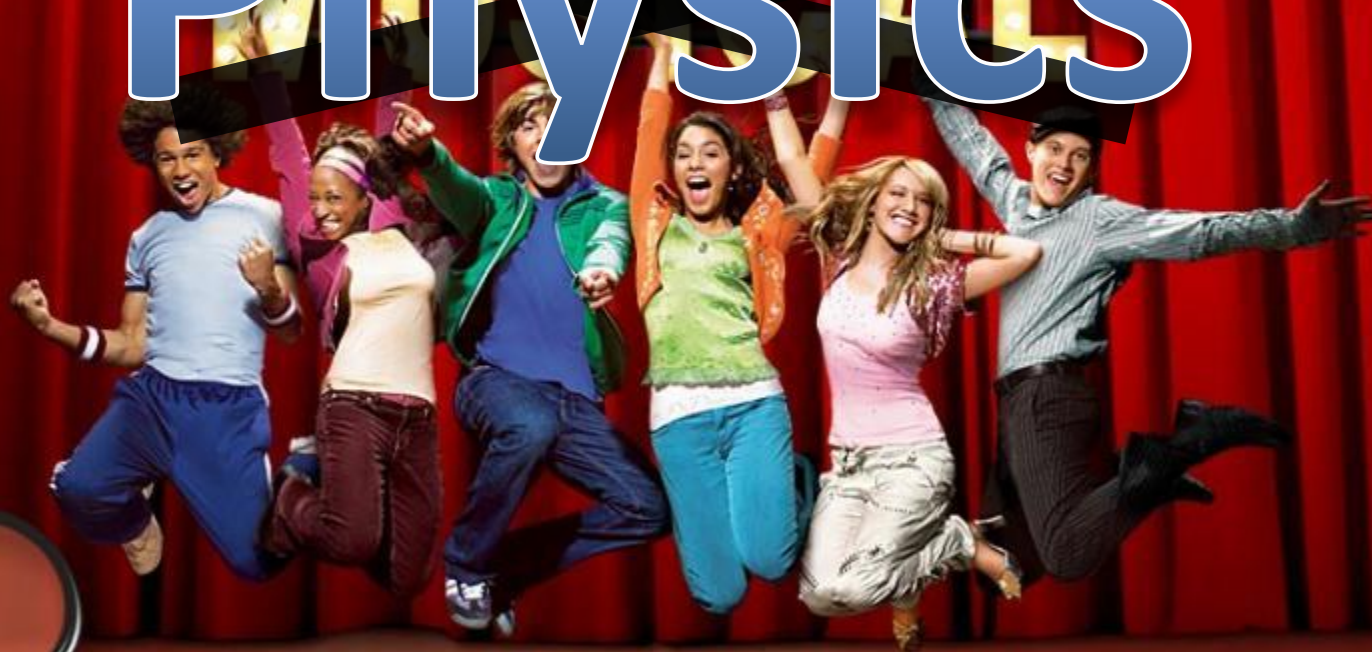
May 23, 2012

Jarlath O'Neil-Dunne

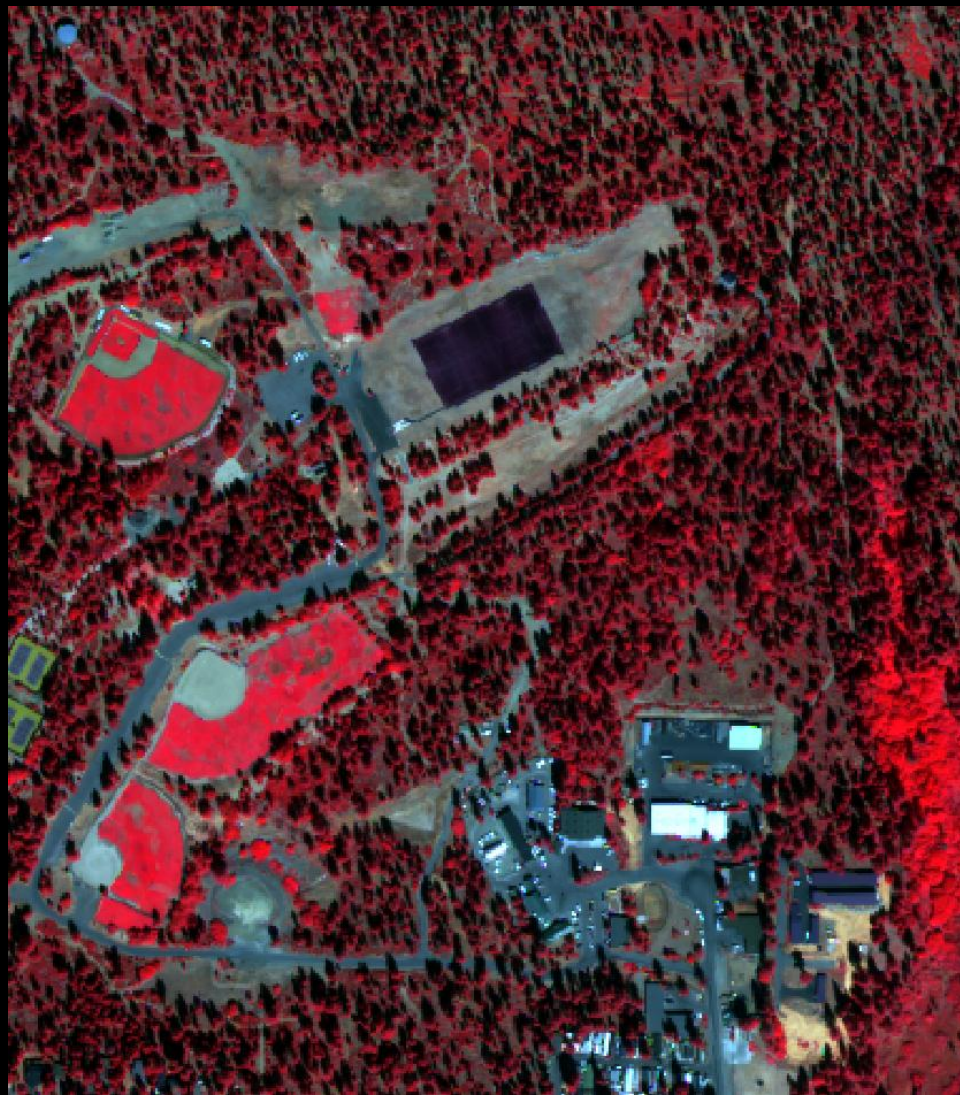


HIGH SCHOOL

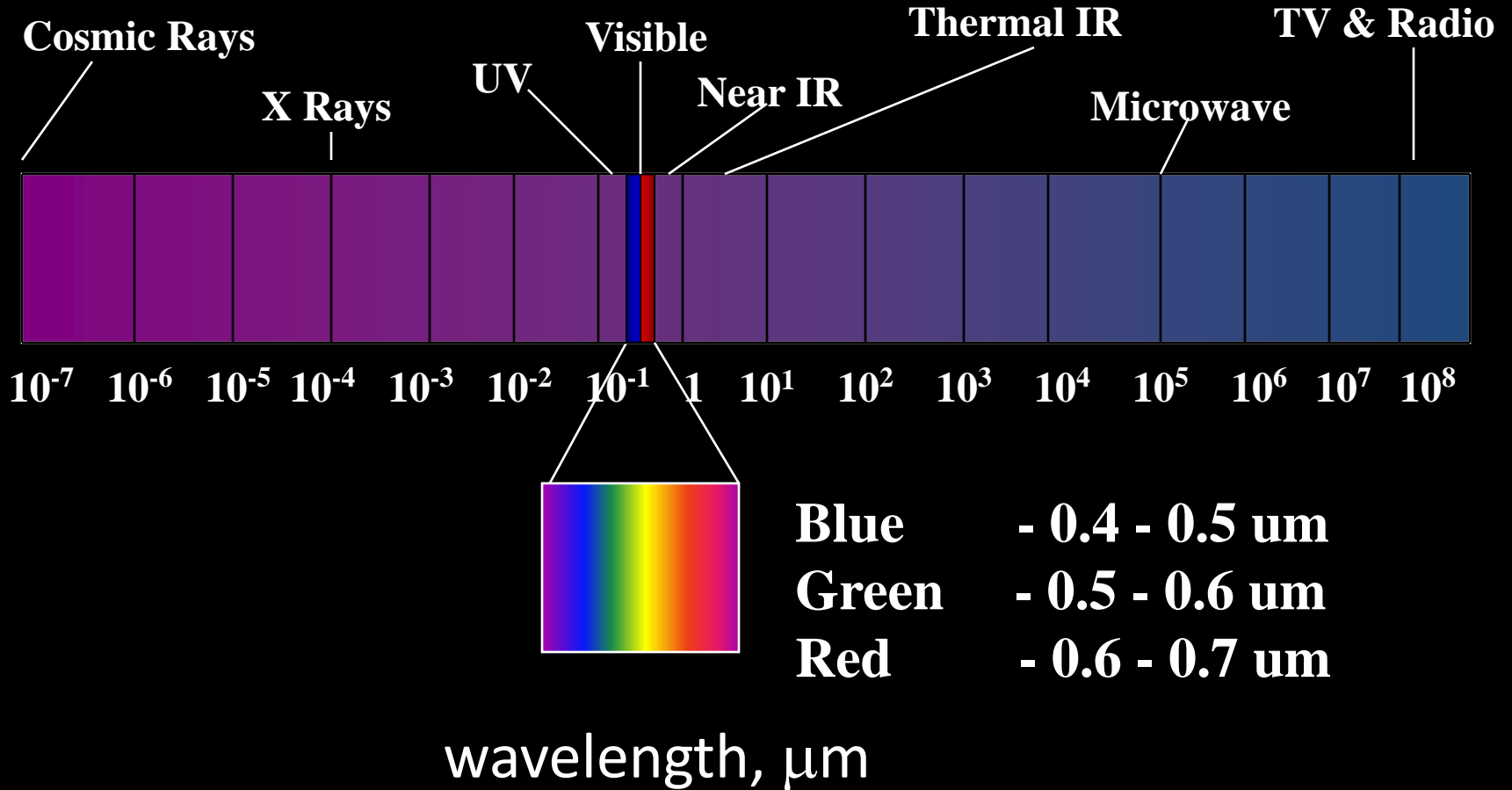
Physics

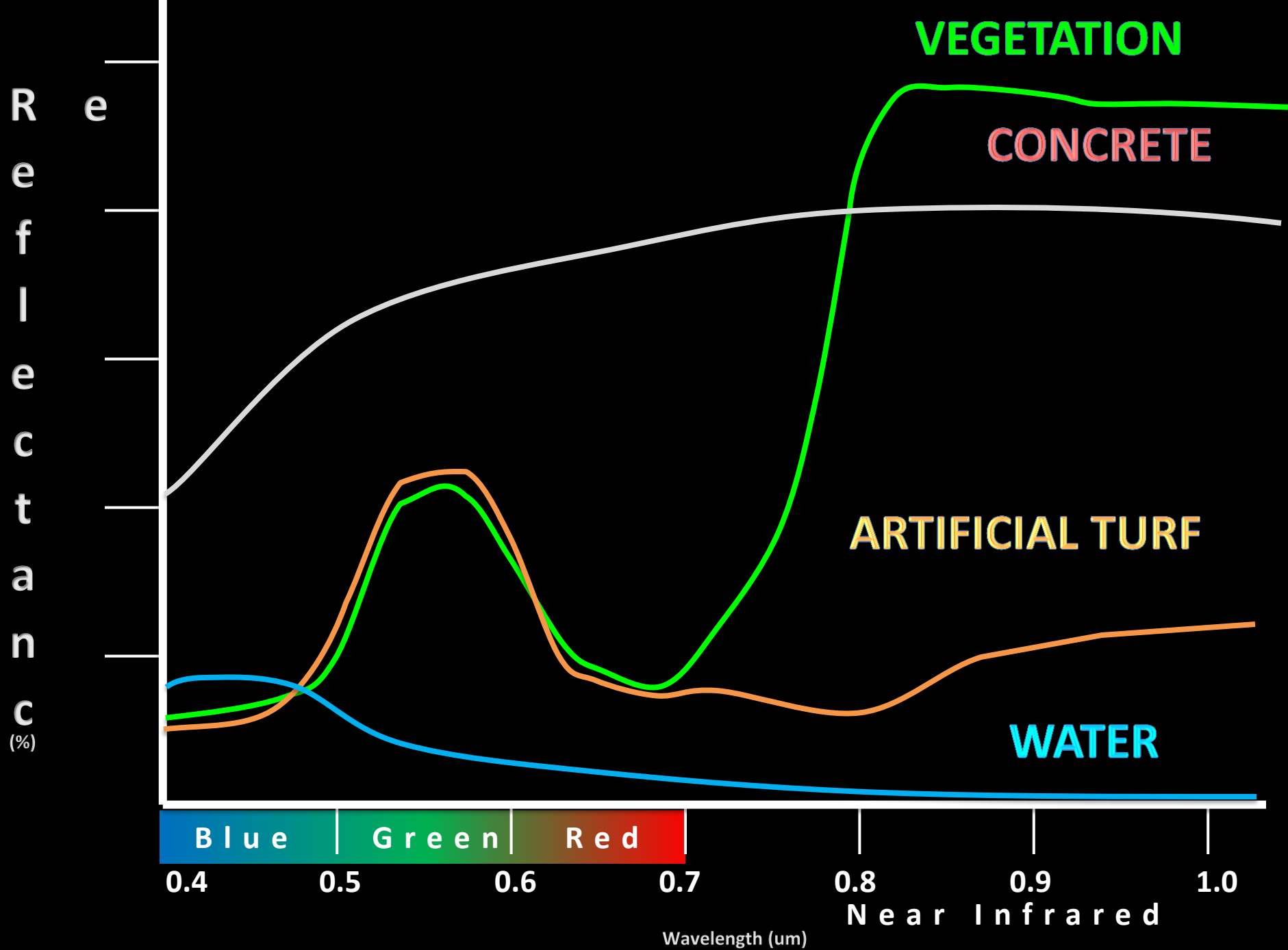


WATCH HIGH SCHOOL MUSICAL ON DISNEY CHANNEL!

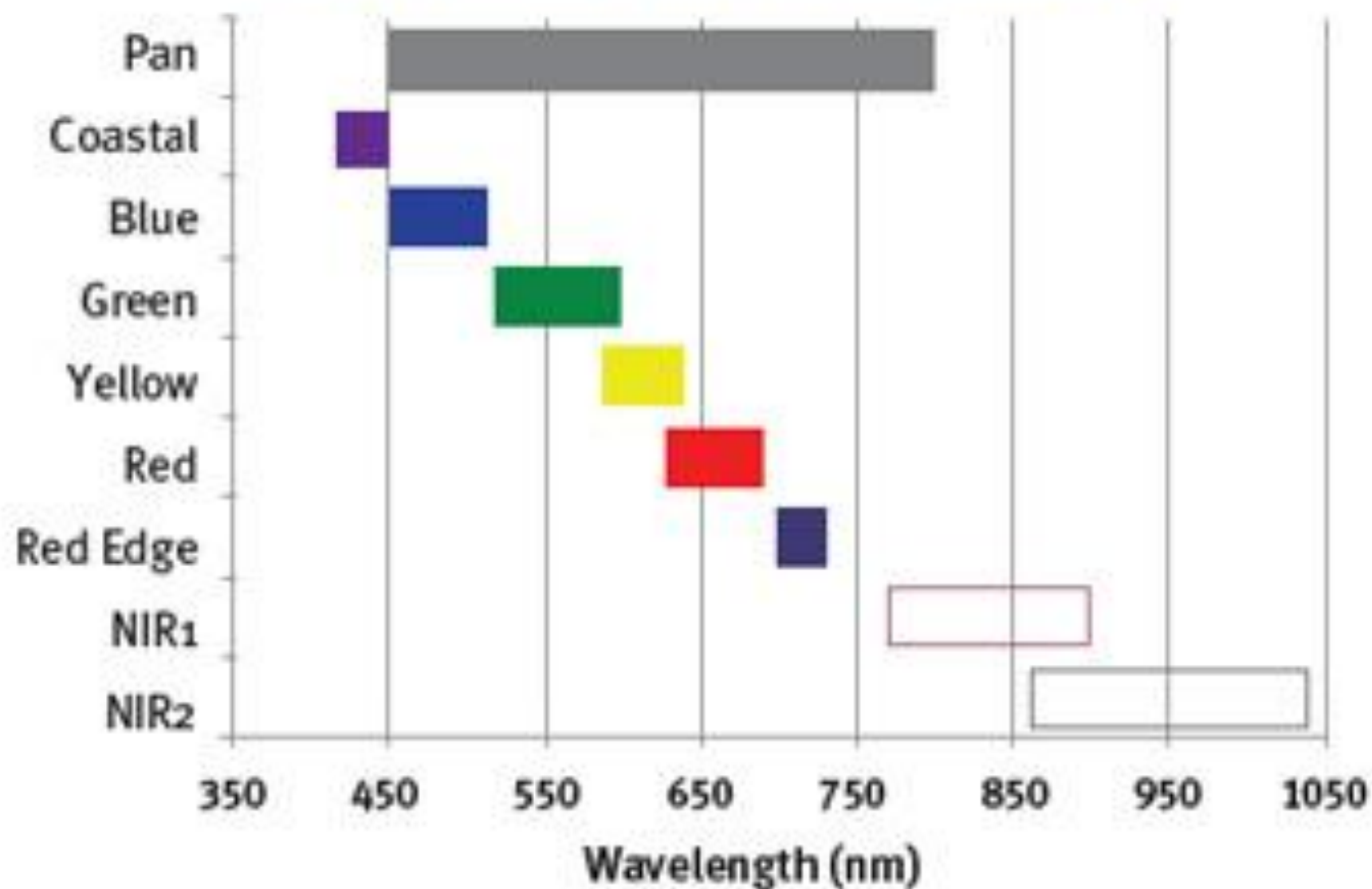


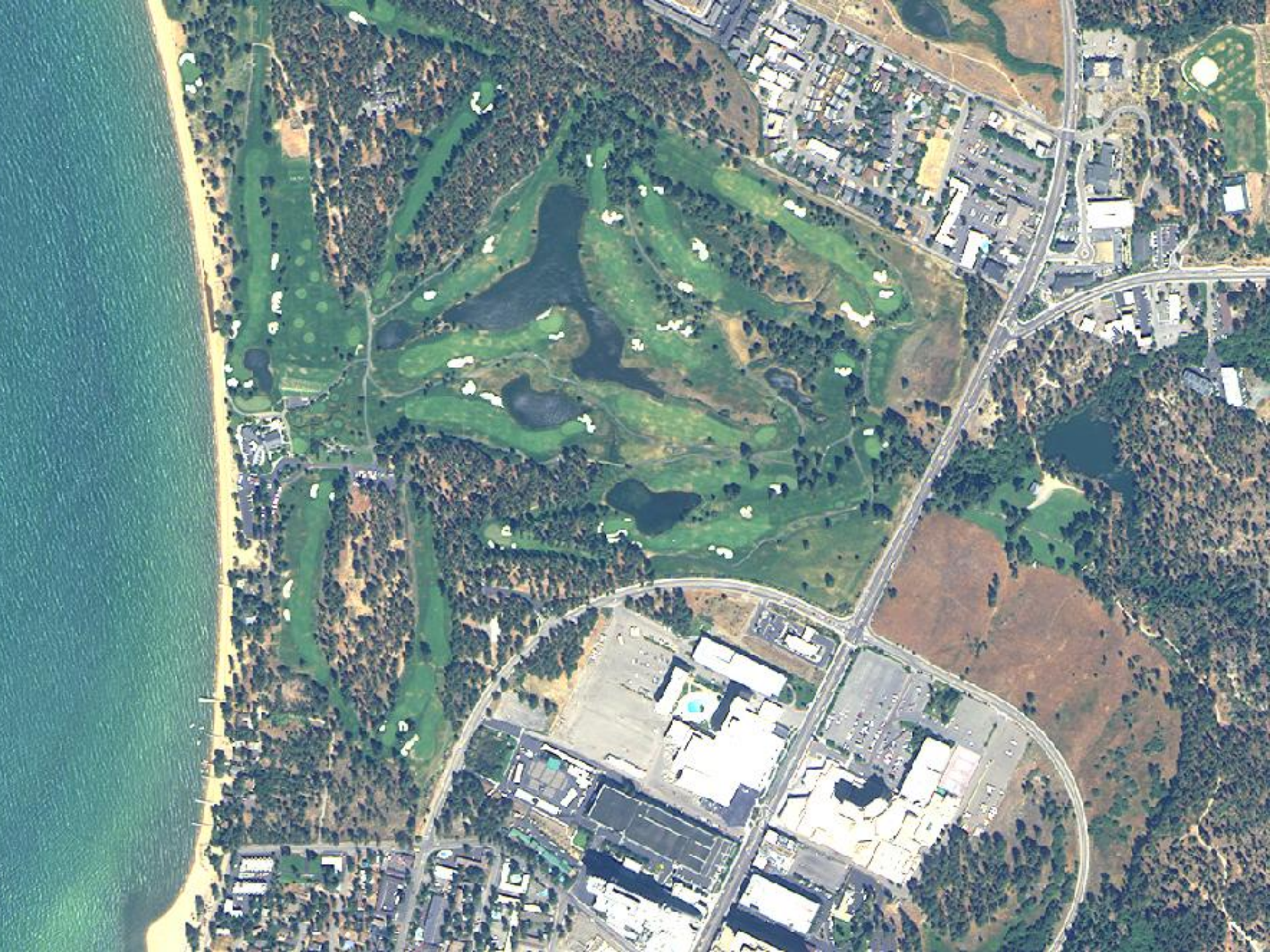
Electromagnetic Spectrum





The 8 spectral bands of WorldView-2



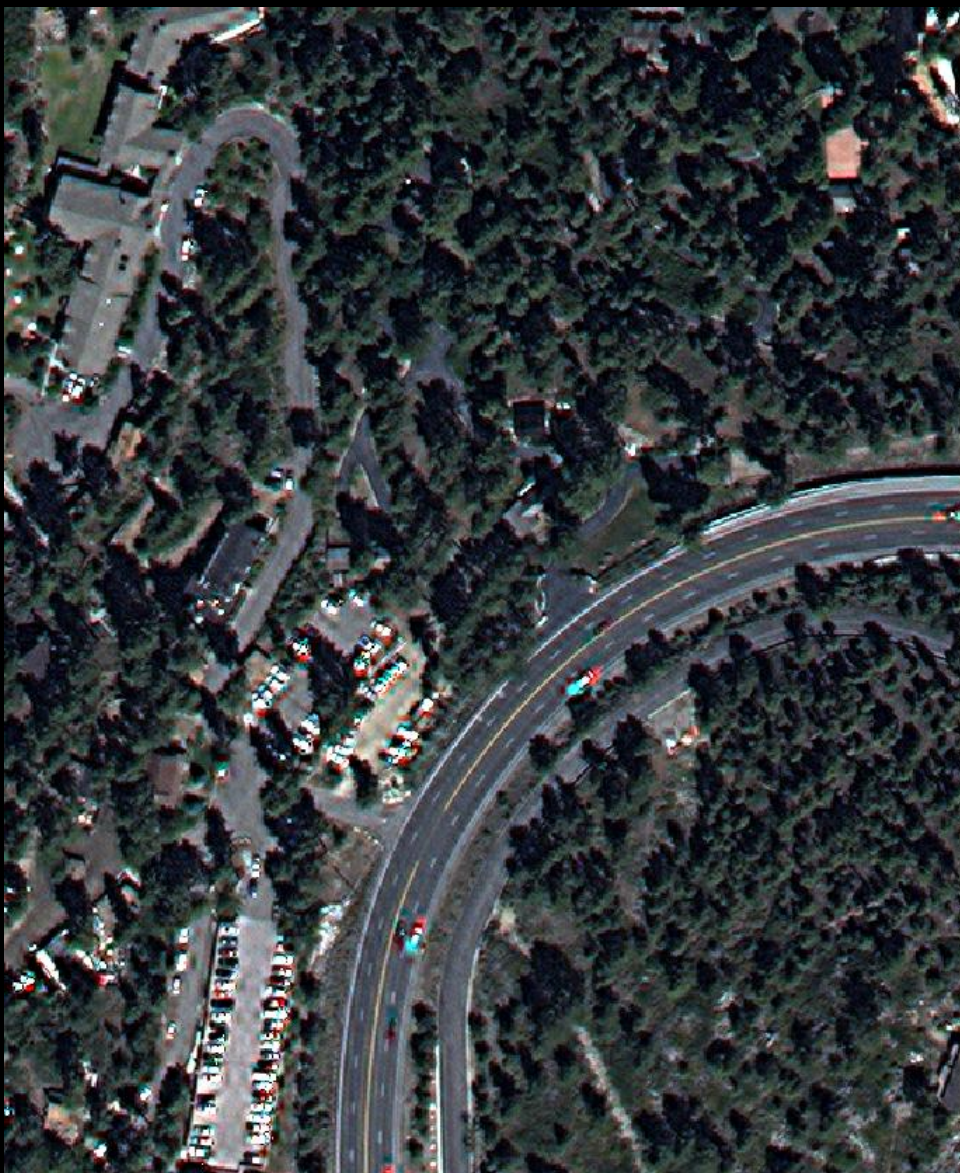


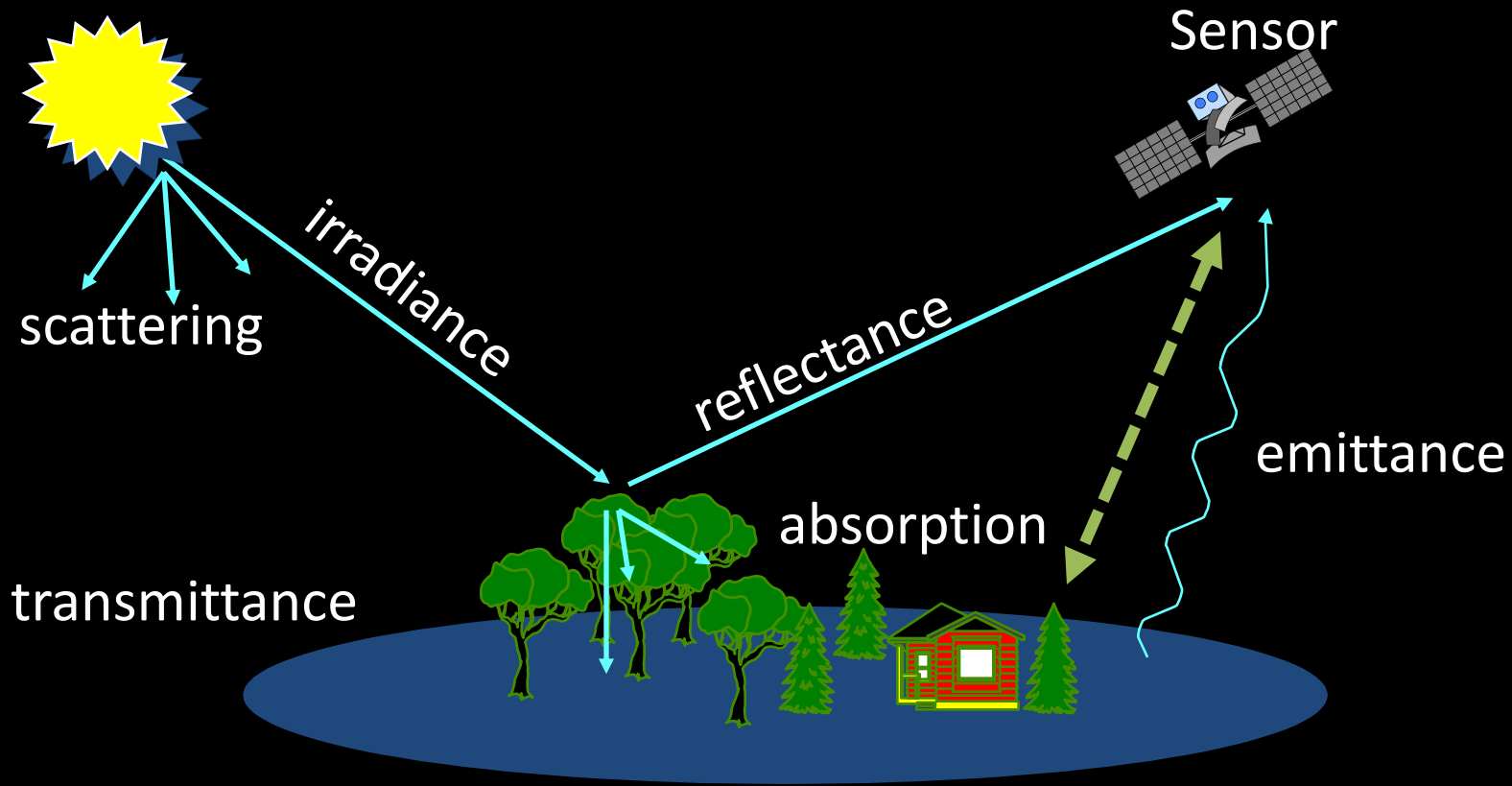












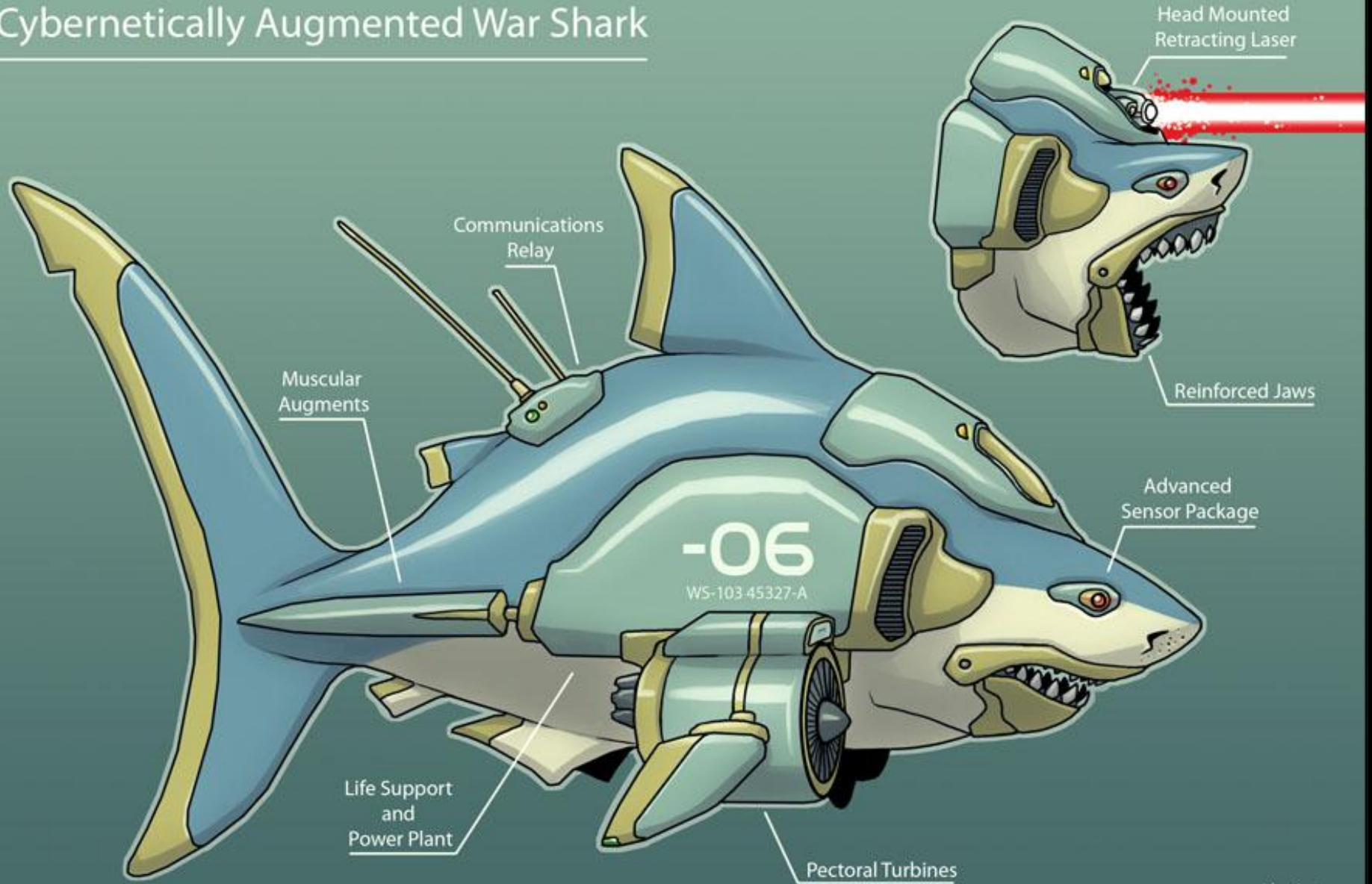
LIDAR

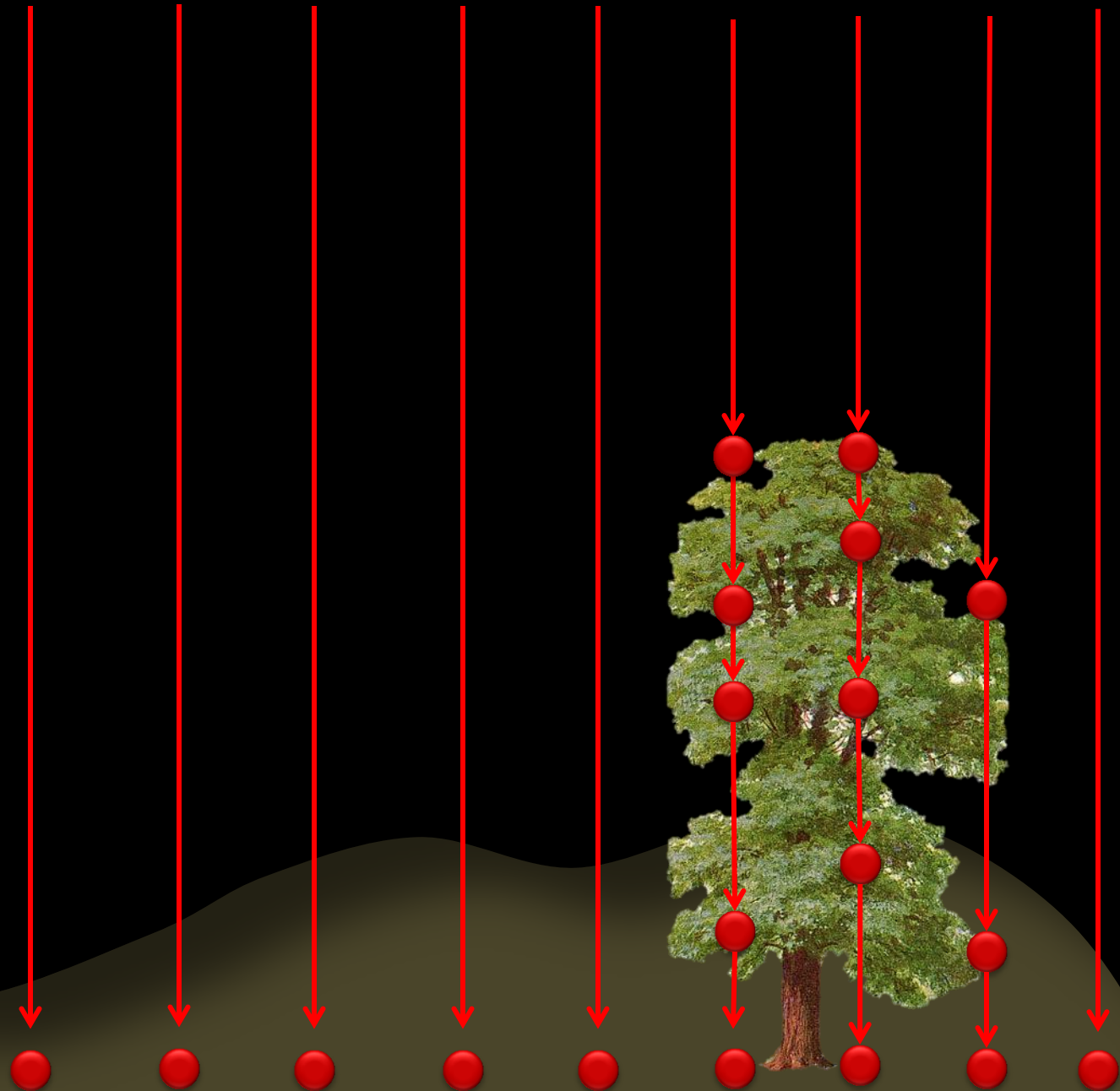
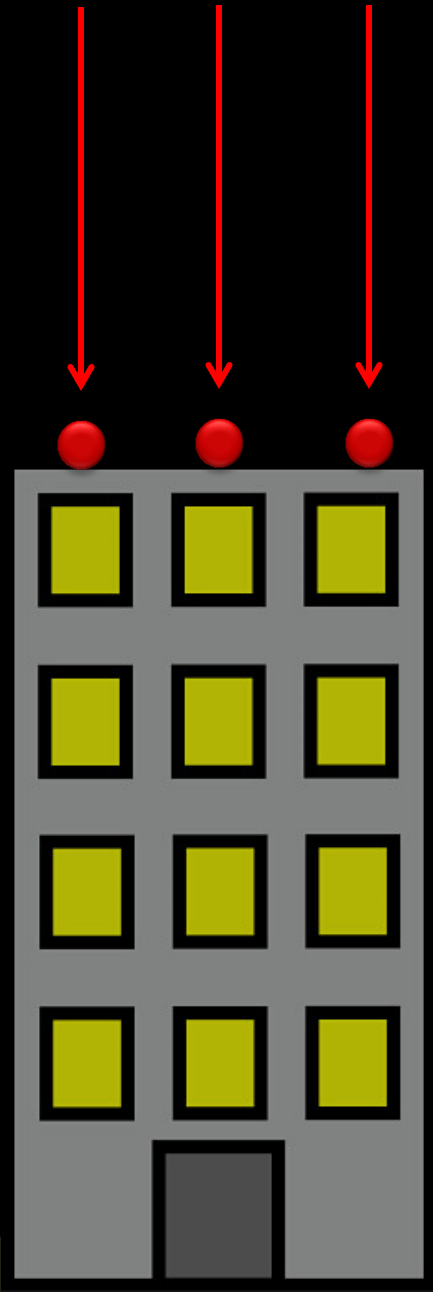
Light Detection And Ranging



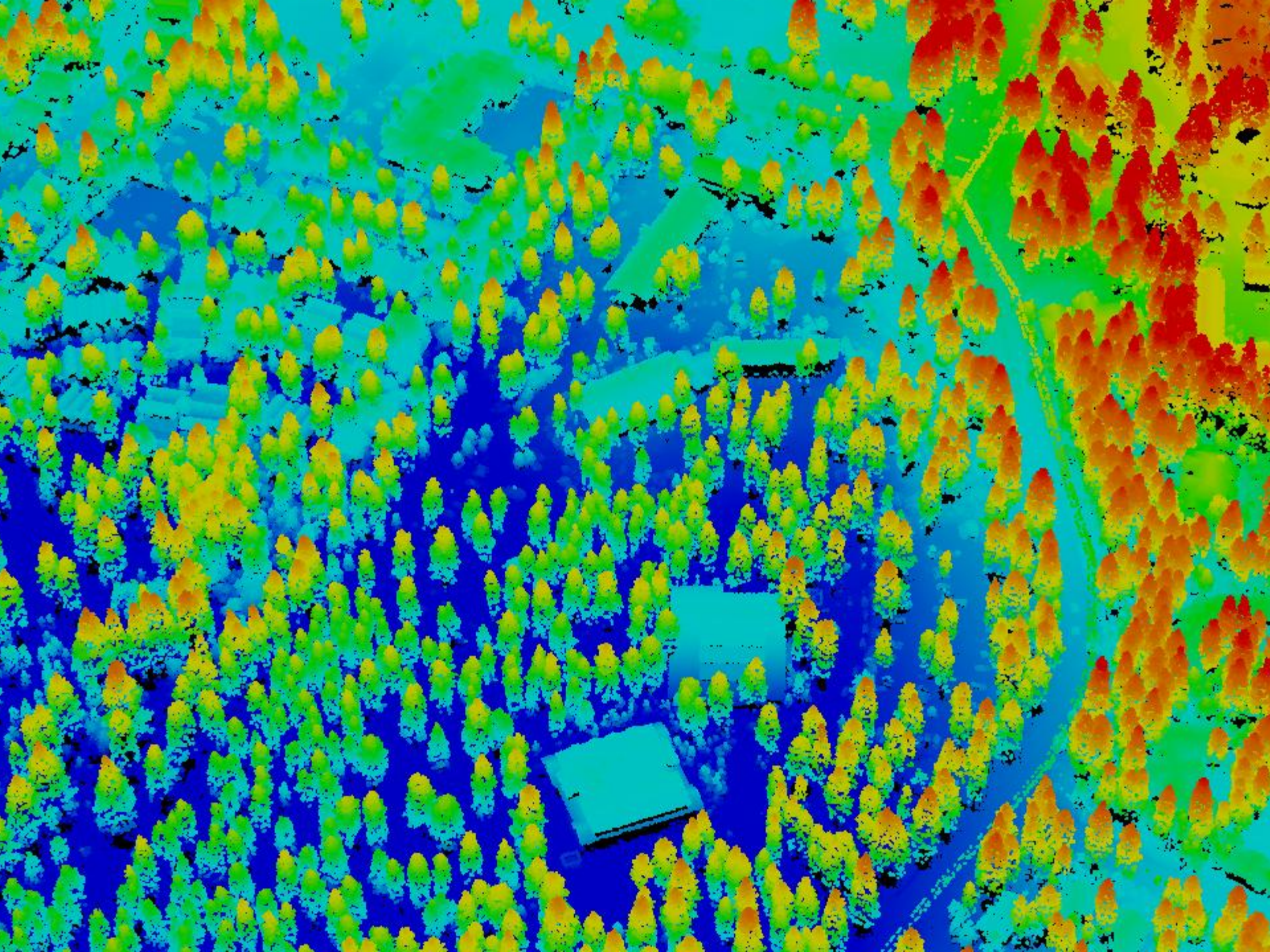
WS-103

Cybernetically Augmented War Shark

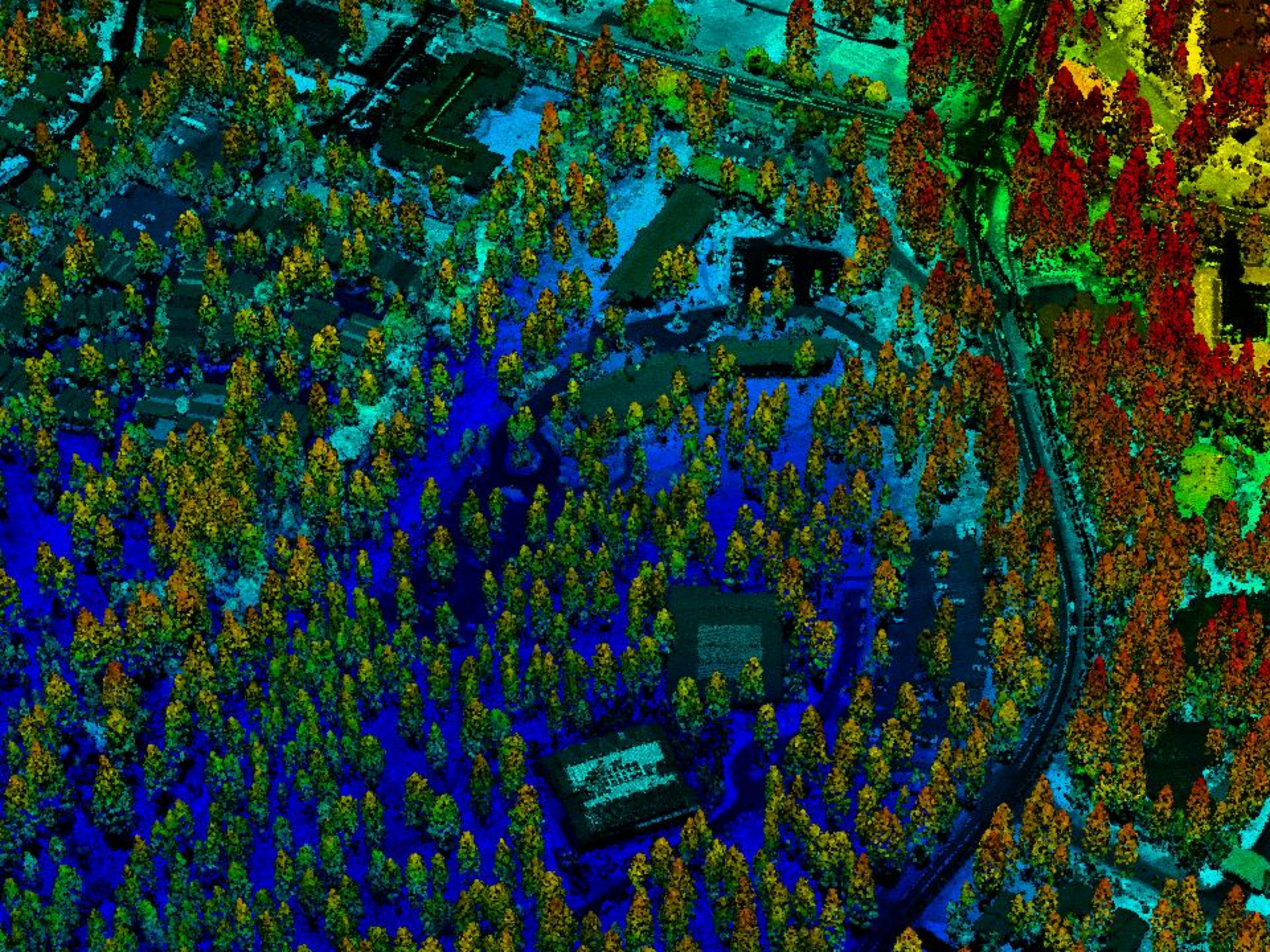


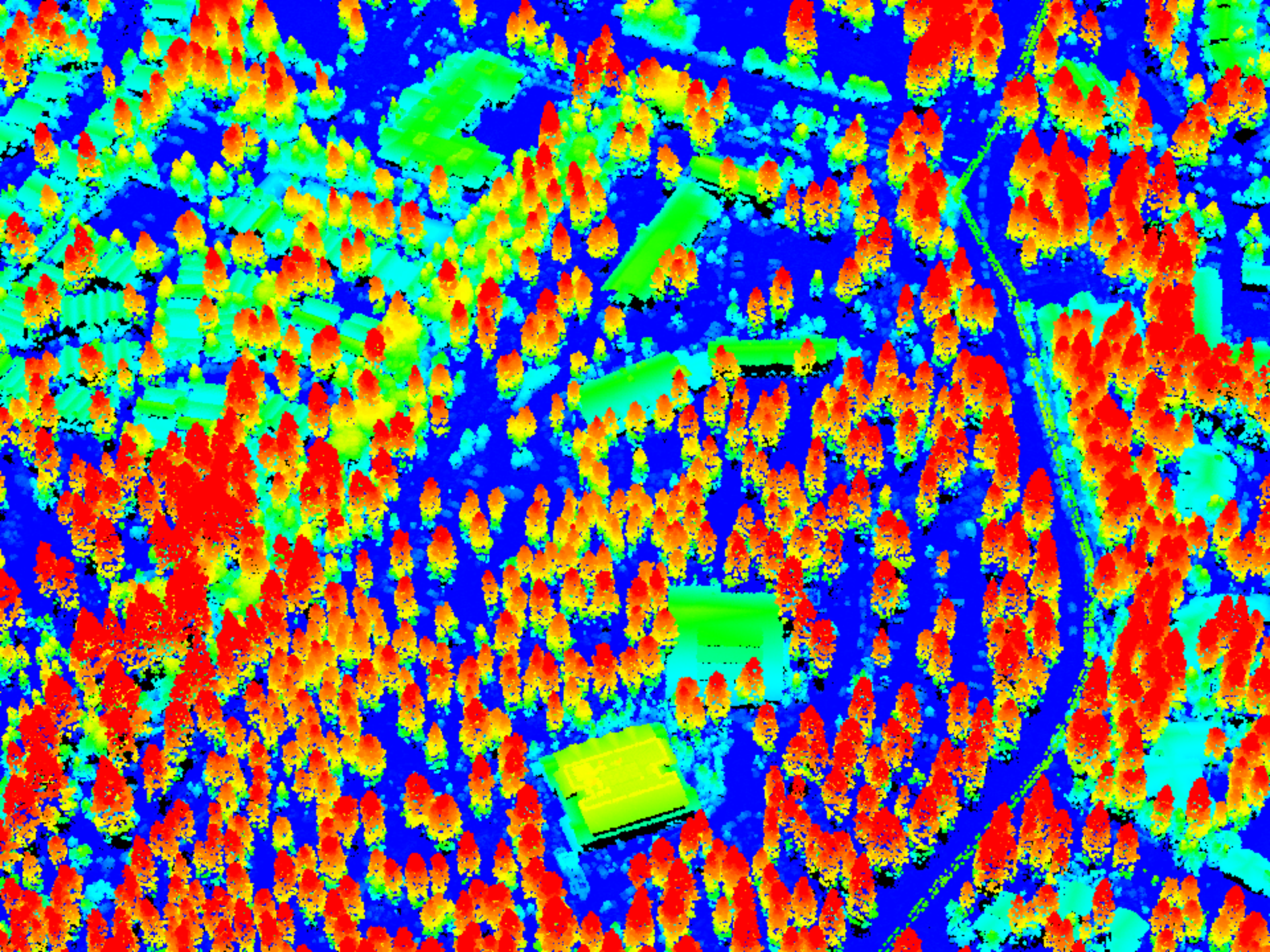


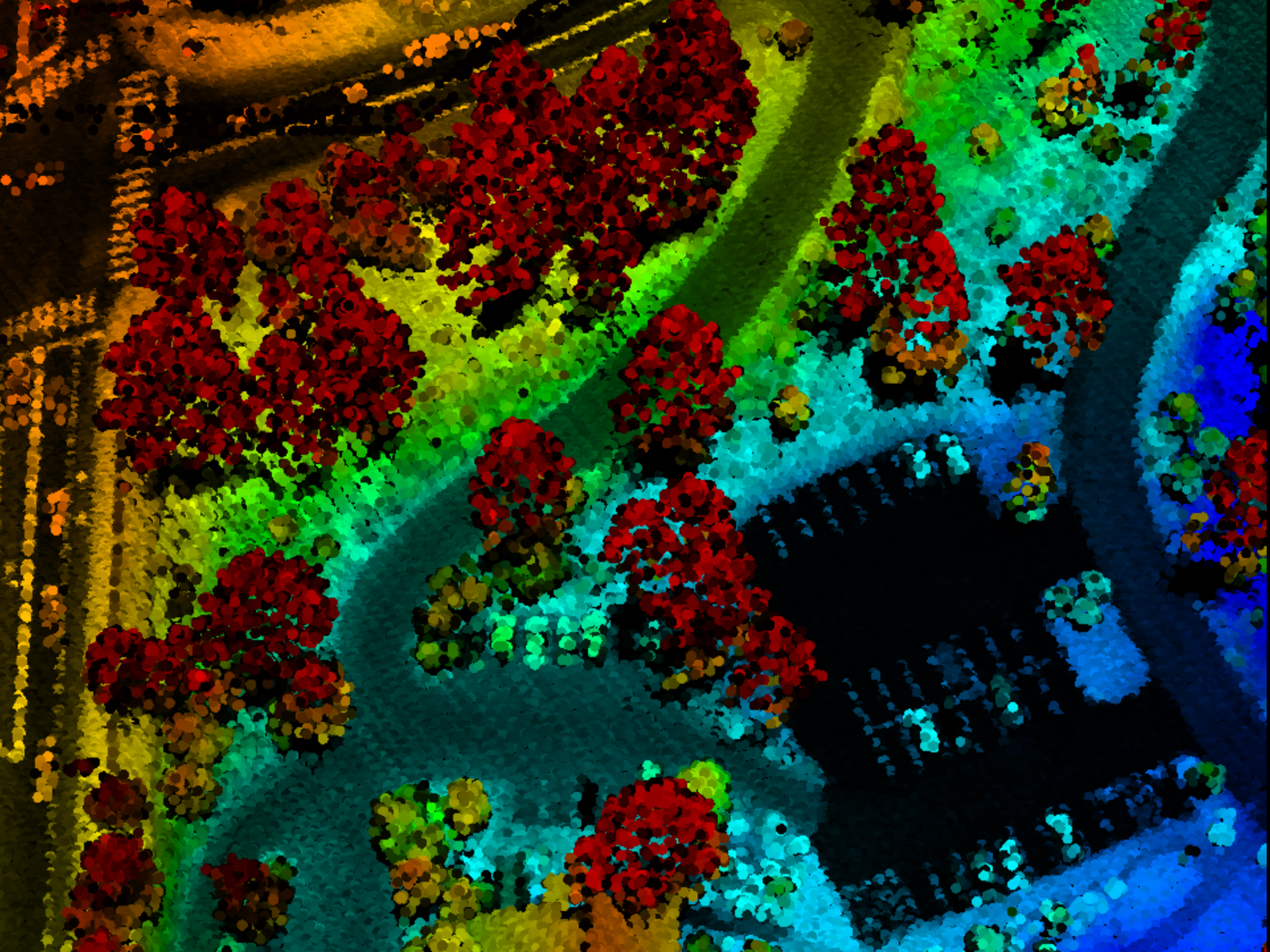


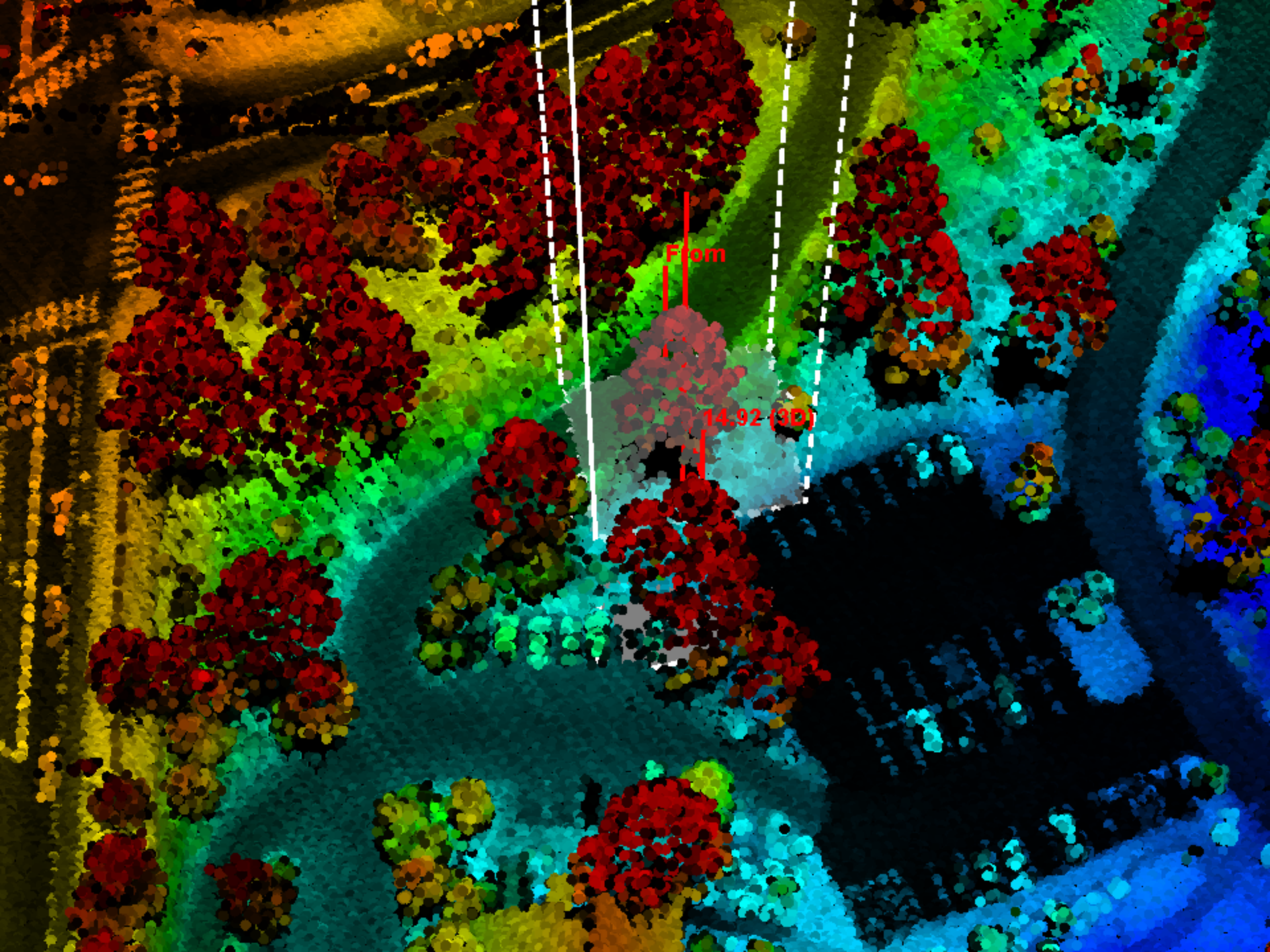


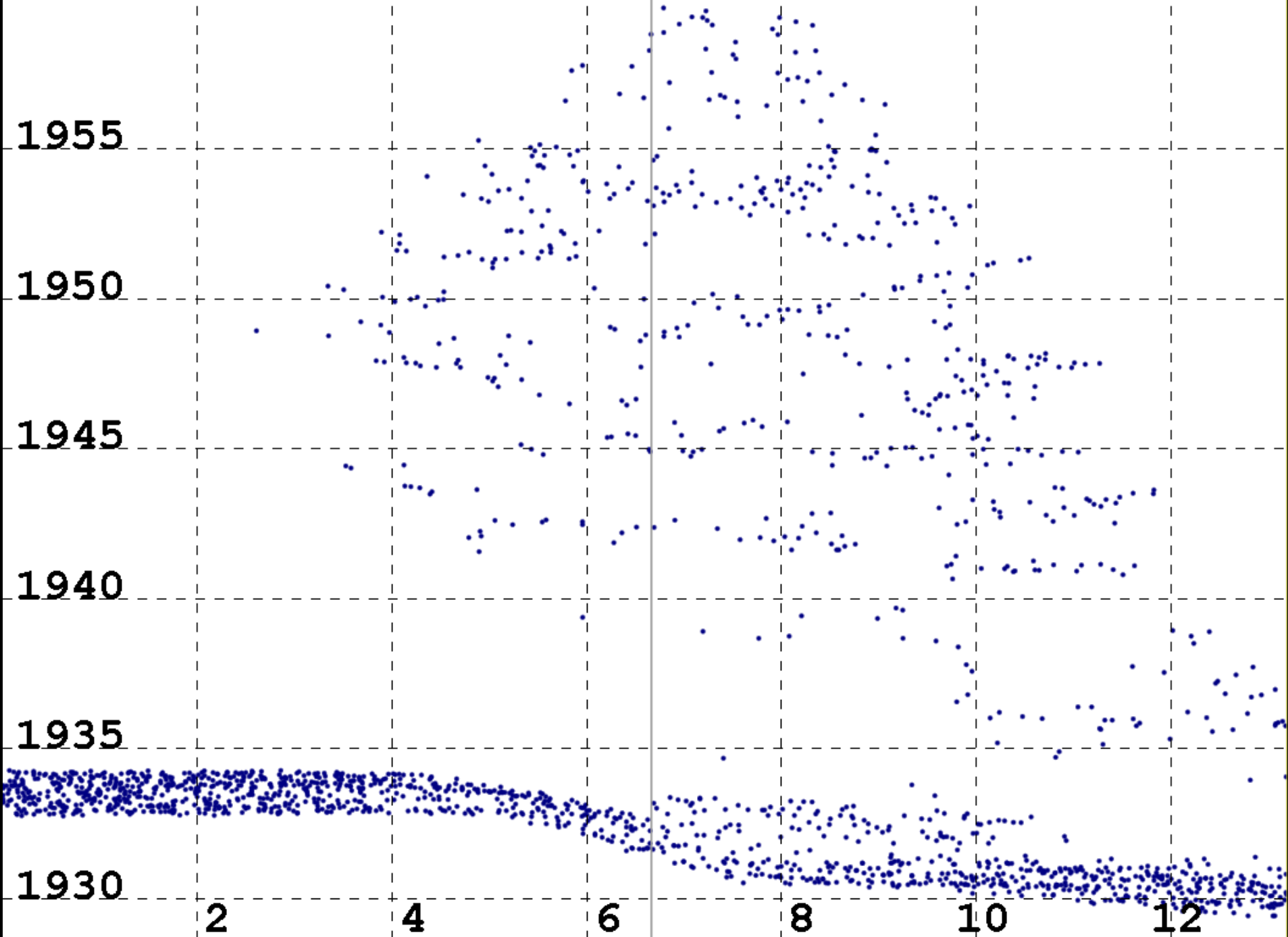


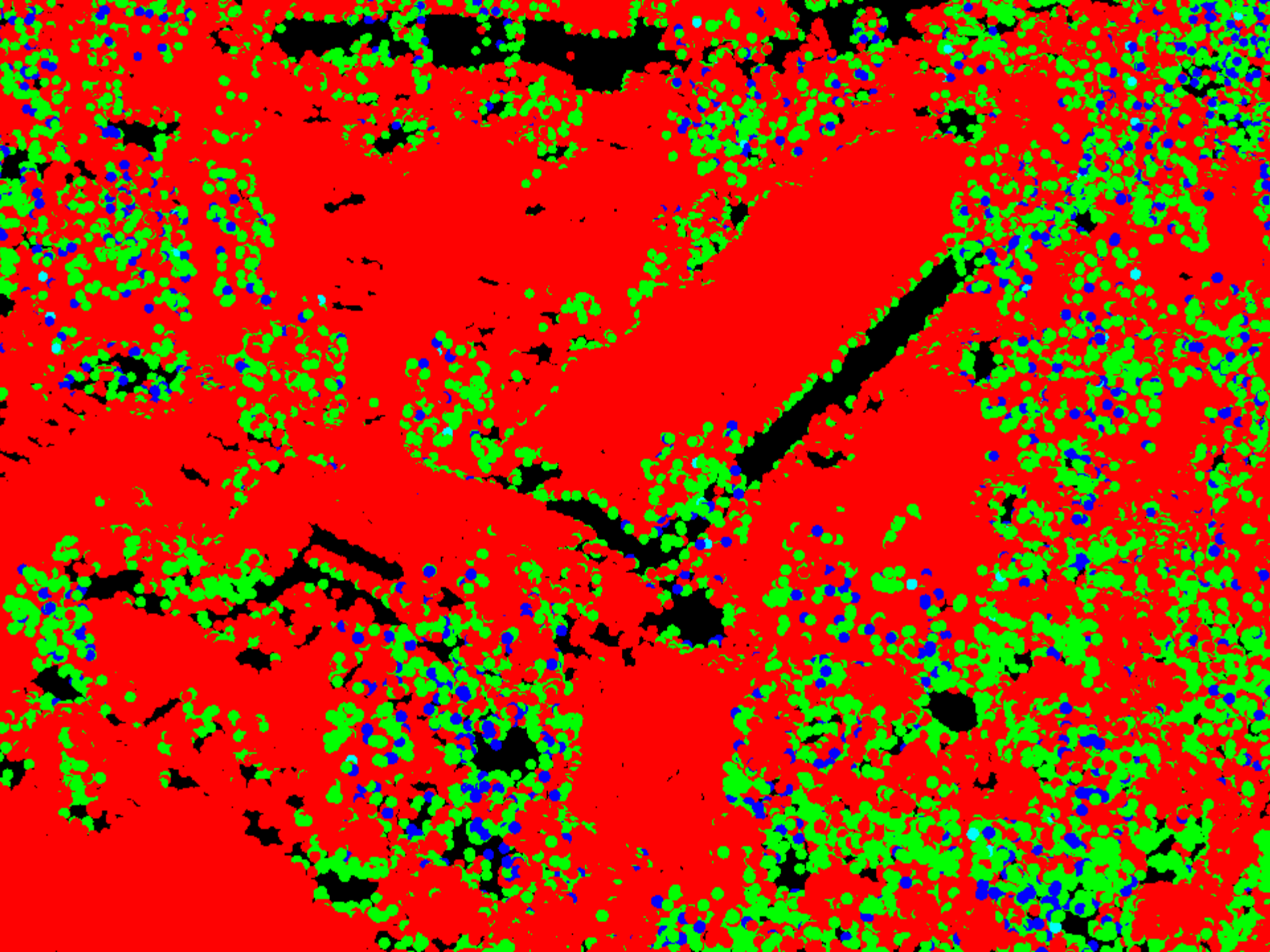


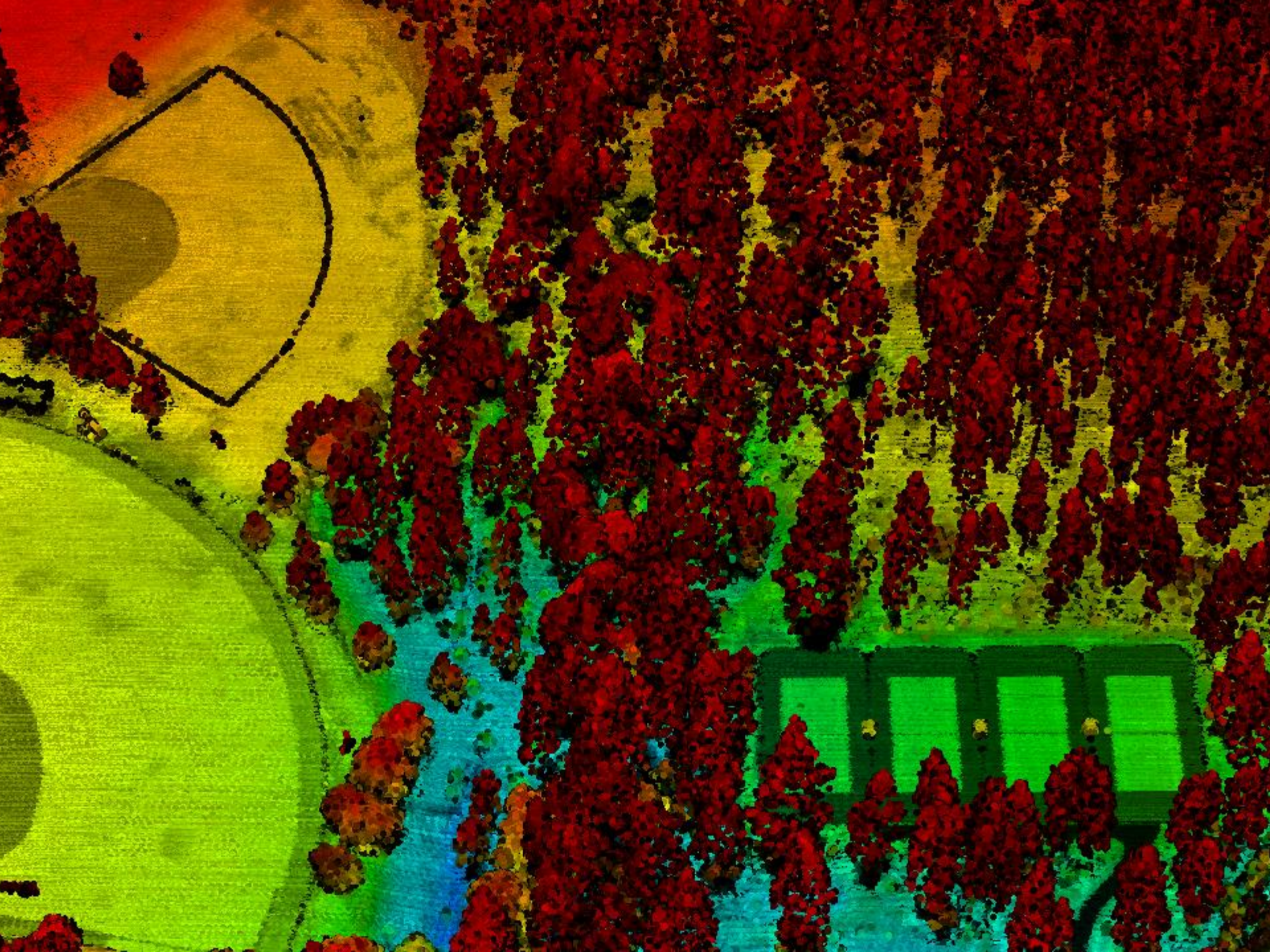




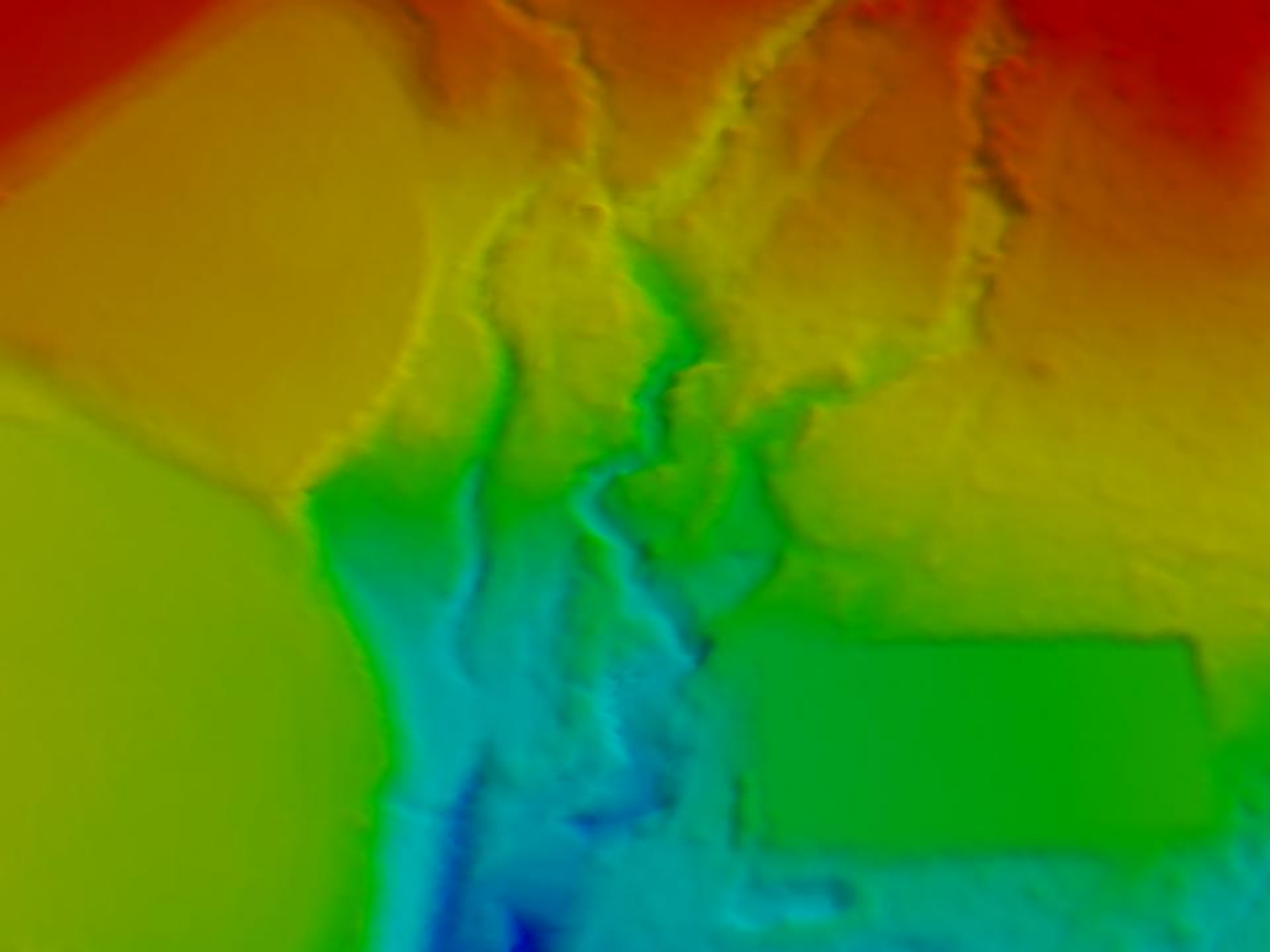












KEVIN • COSTNER

All his life, Ray Kinsella was searching for his dreams.
Then one day, his dreams came looking for him.



FIELD OF DREAMS

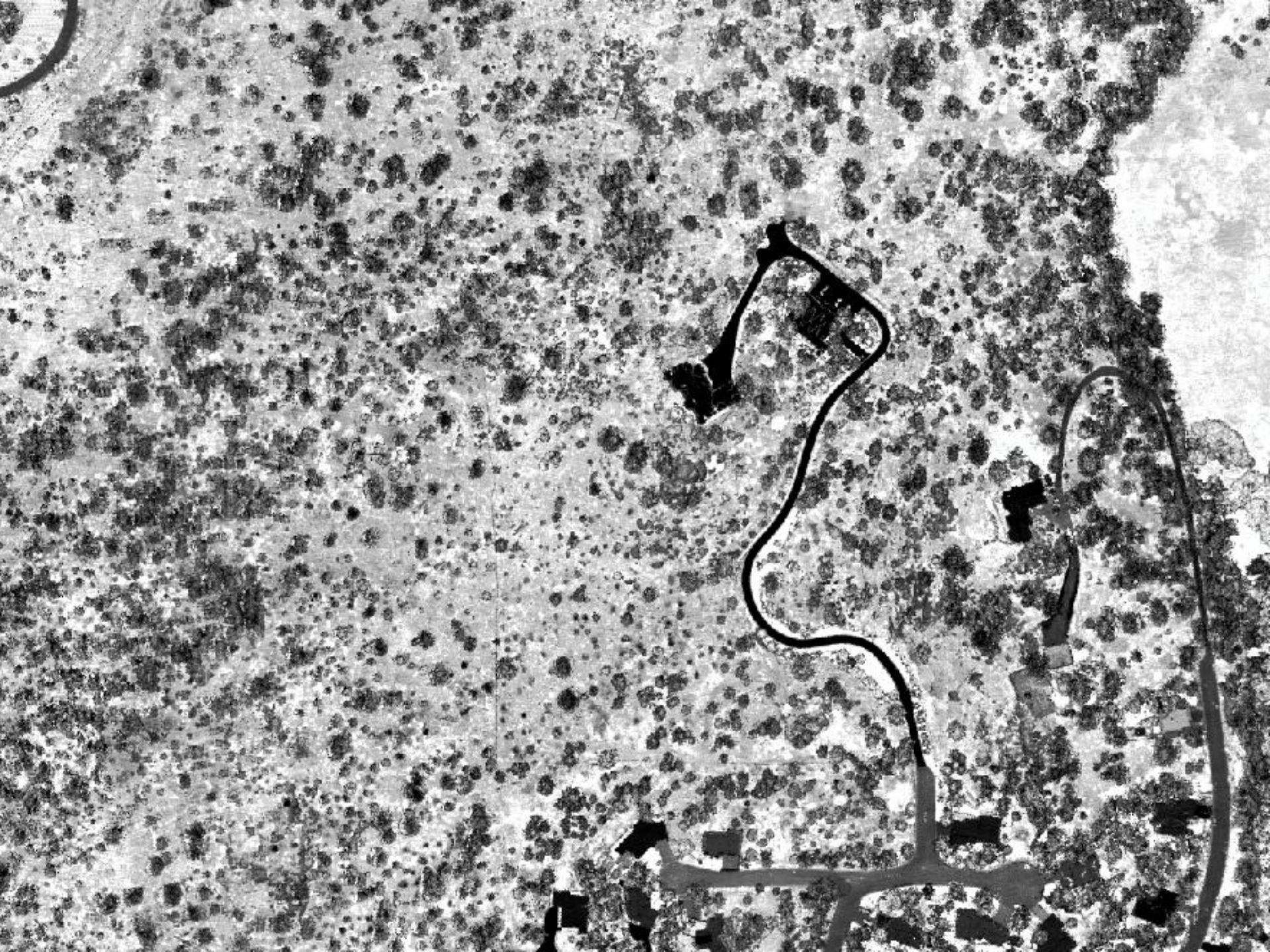
A GORGON CINEMAS PRODUCTION • A PIER ALLEN ROBINSON FILM "FIELD OF DREAMS"
KEVIN COSTNER • AMY MADSEN • JAMES EARL RAY • RAY DOTTA • R. B. LINSLEY • BASED ON THE BOOK "SHOULDS" BY W. P. KINSella
SCREENPLAY BY JAMES HORNBE • DIRECTOR OF PHOTOGRAPHY JOHN LINSLEY • PRODUCTION DESIGNER DENNIS GABNER • EXECUTIVE PRODUCERS BOB FISHMAN
PRODUCED BY LAURENCE GORDON AND CHARLES GORDON • WRITTEN FOR THE SCREEN AND DIRECTED BY PIER ALLEN ROBINSON

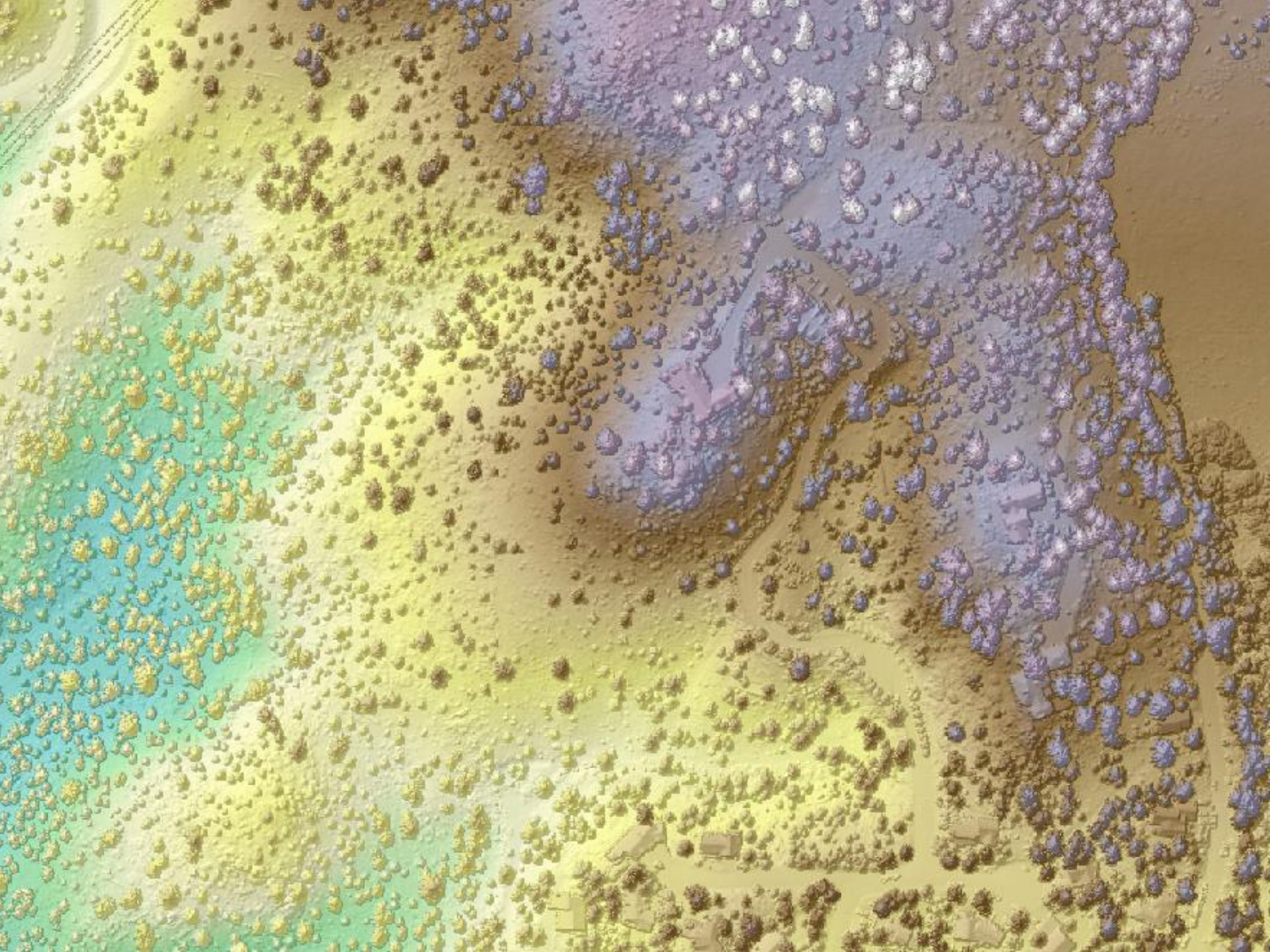
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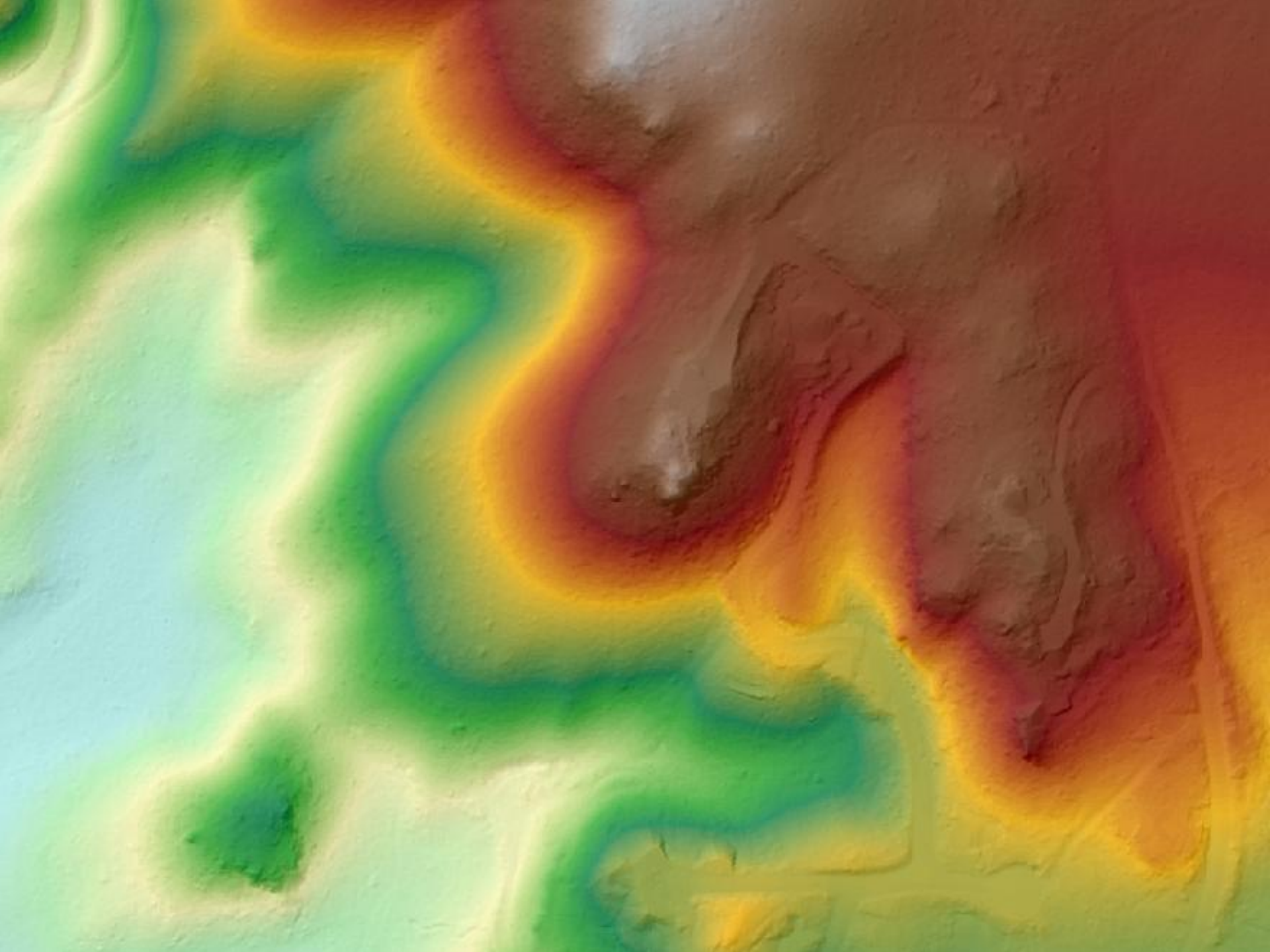
PIER ALLEN ROBINSON

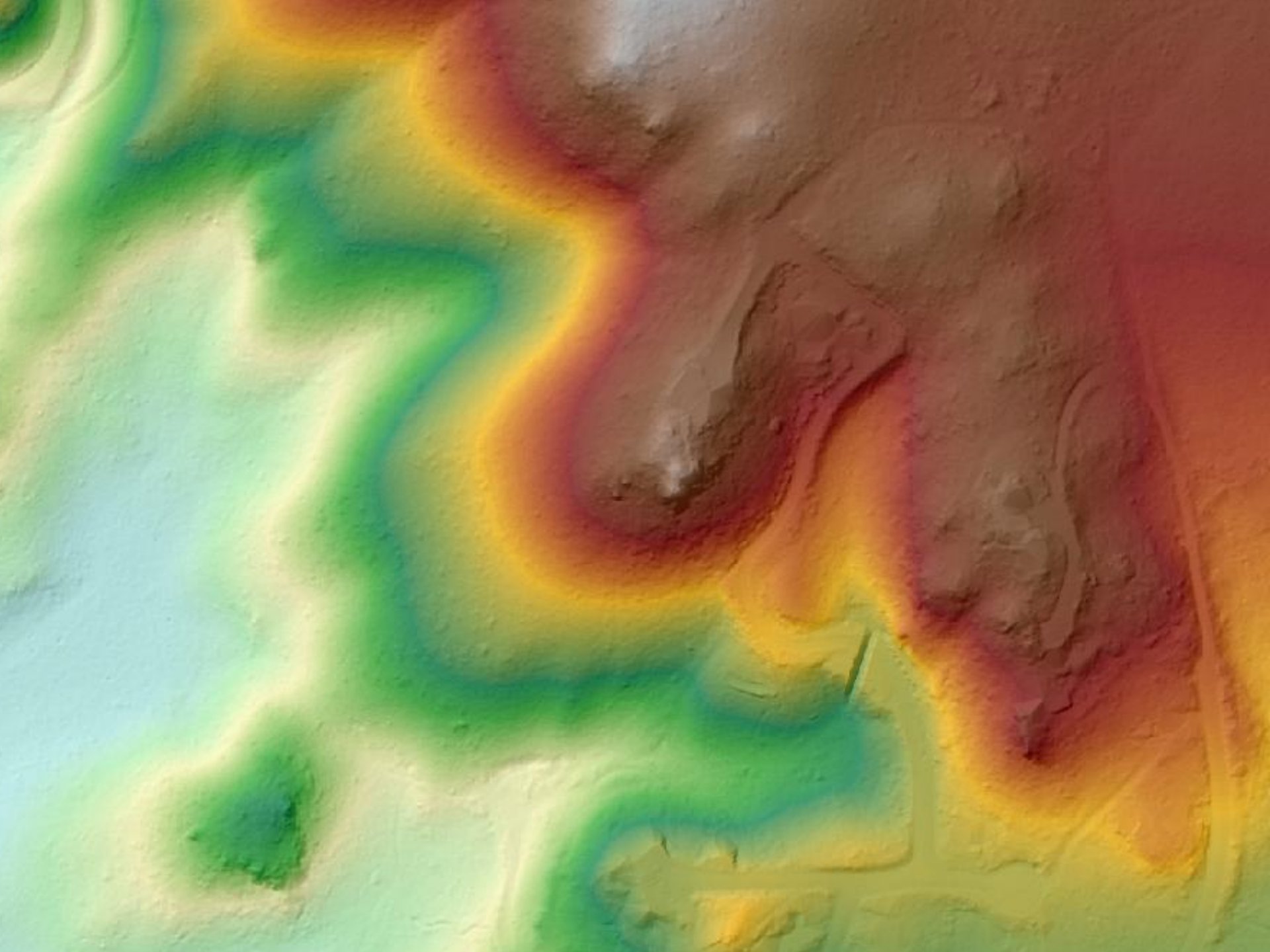






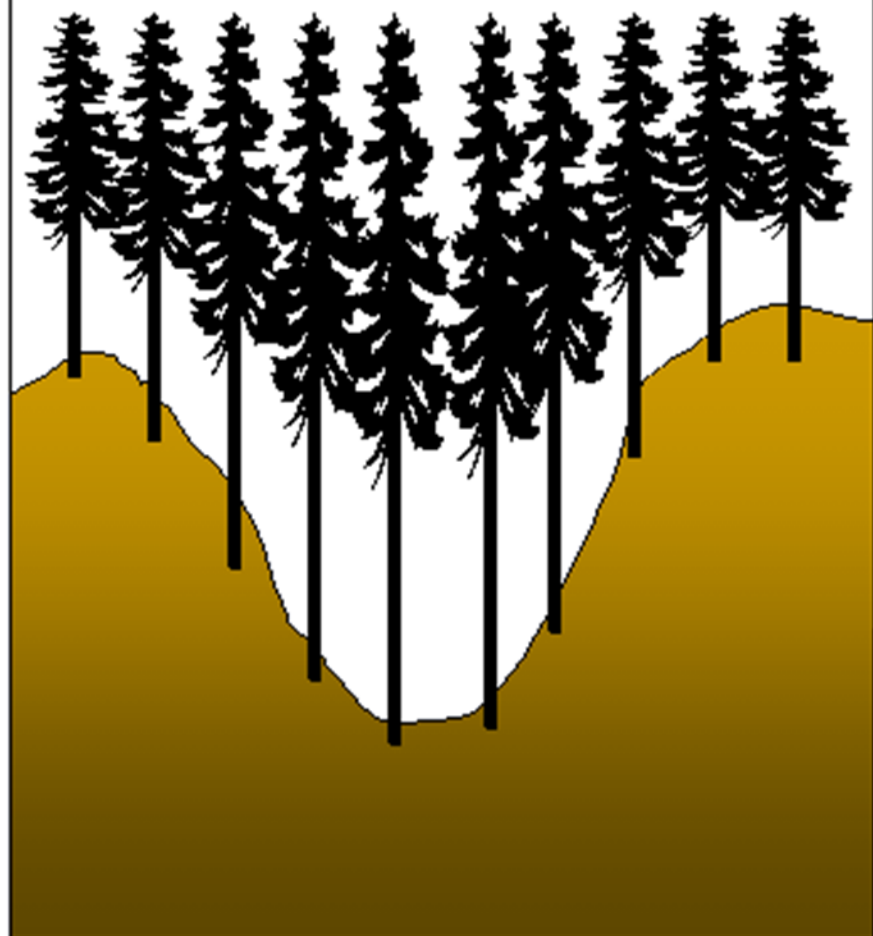






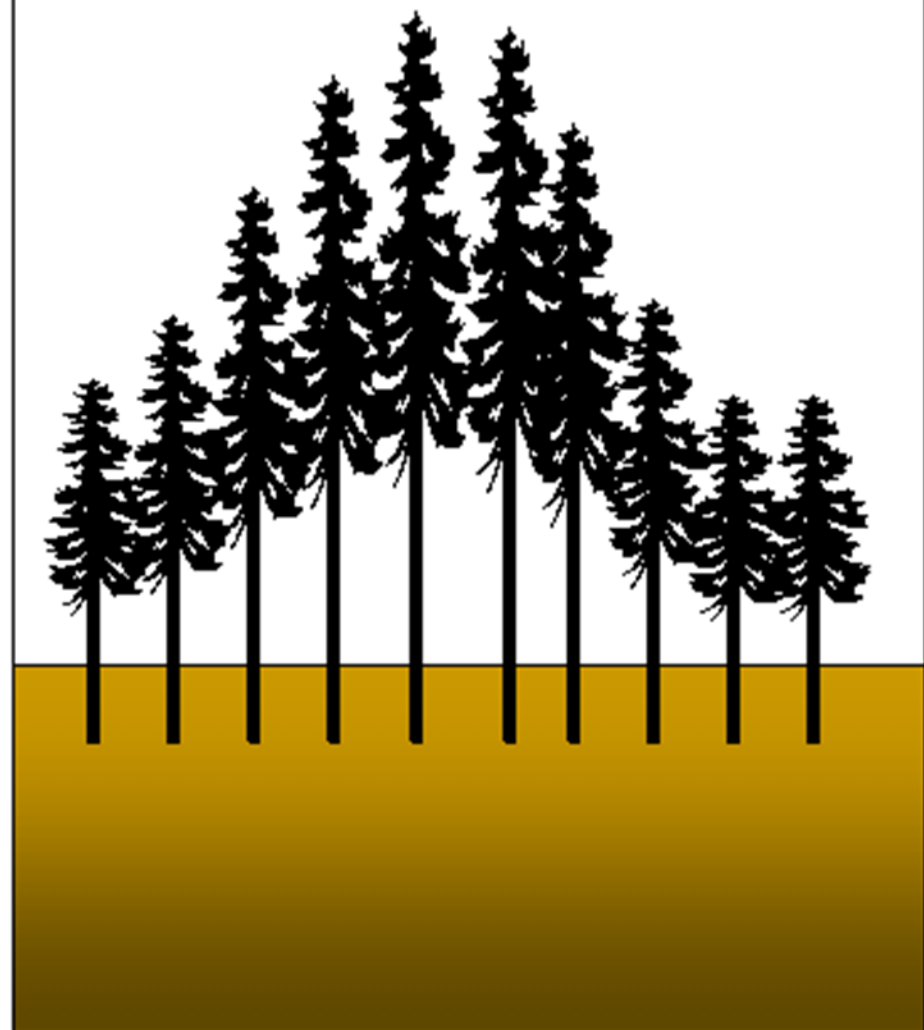
With Bare Ground
Topography

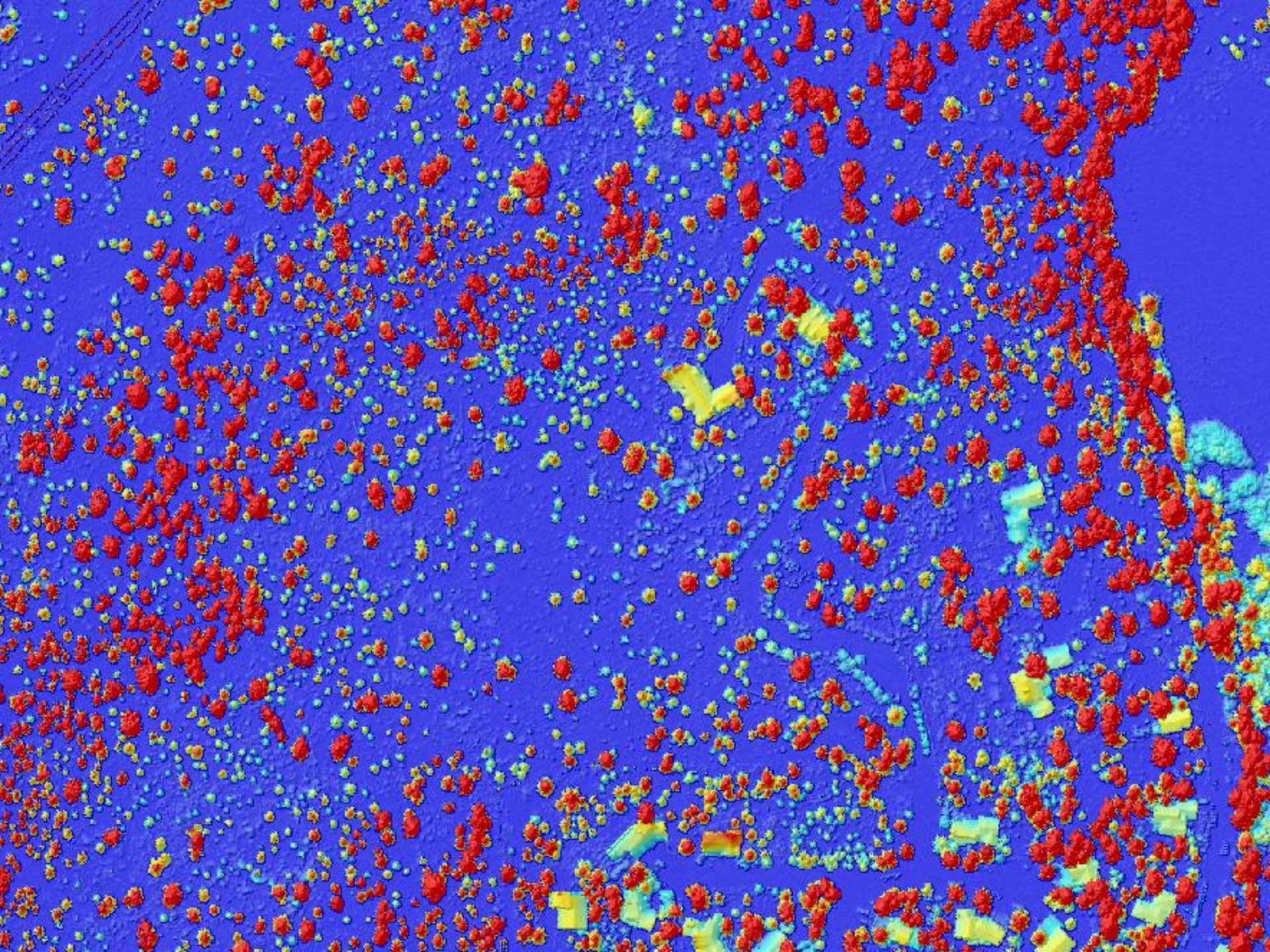
A B C D E F G H I J

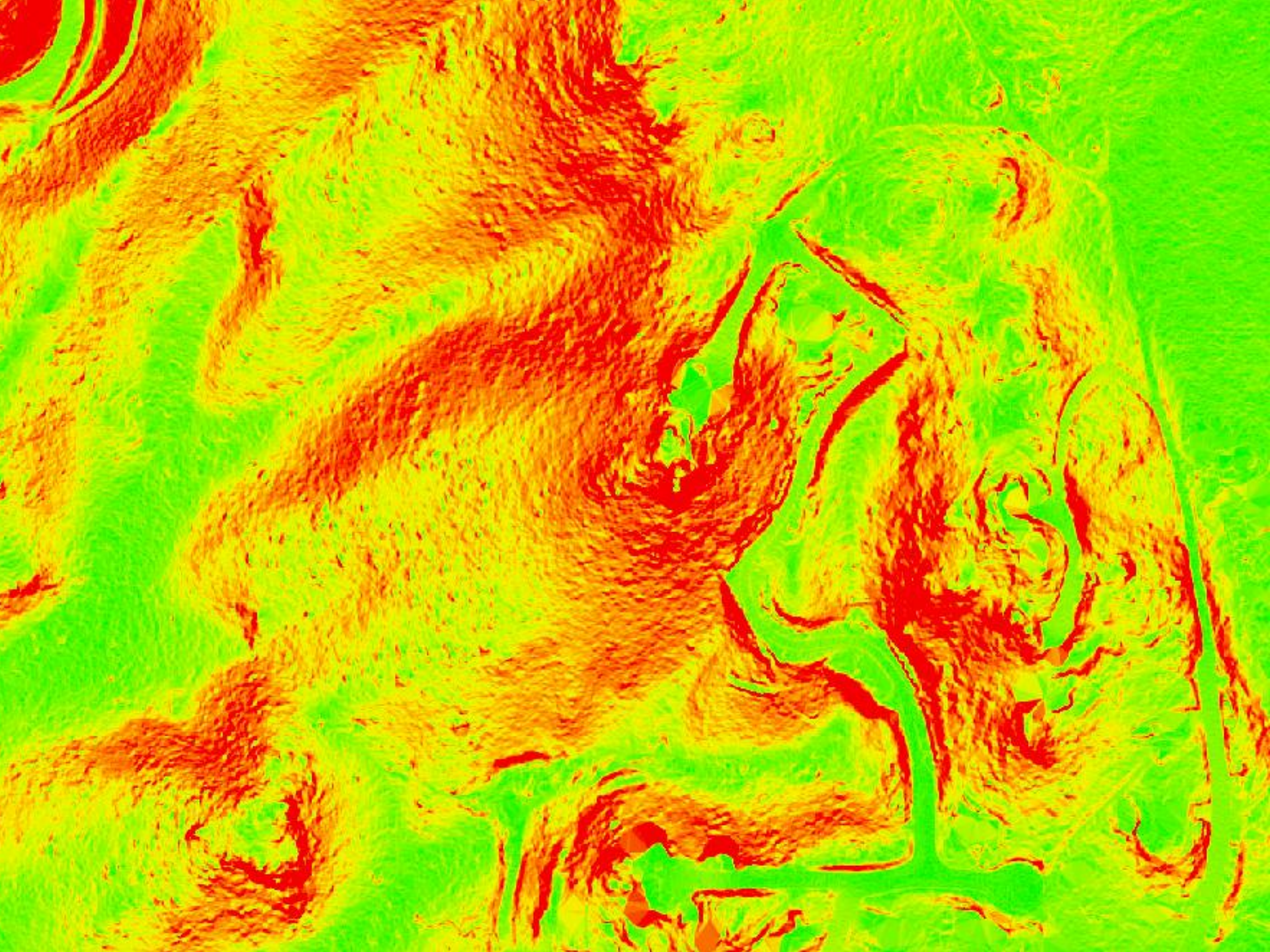


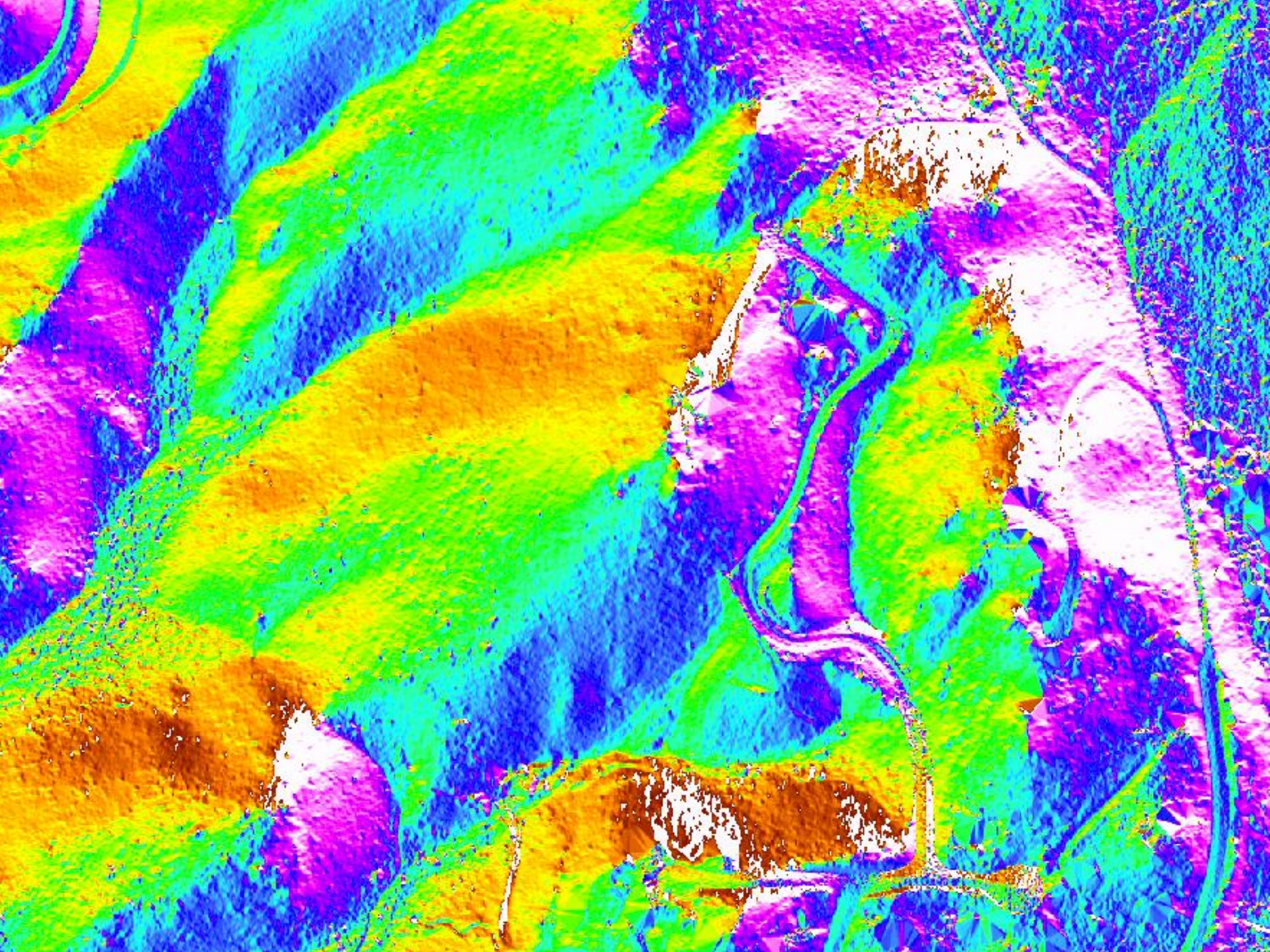
With Topography
Removed

A B C D E F G H I J

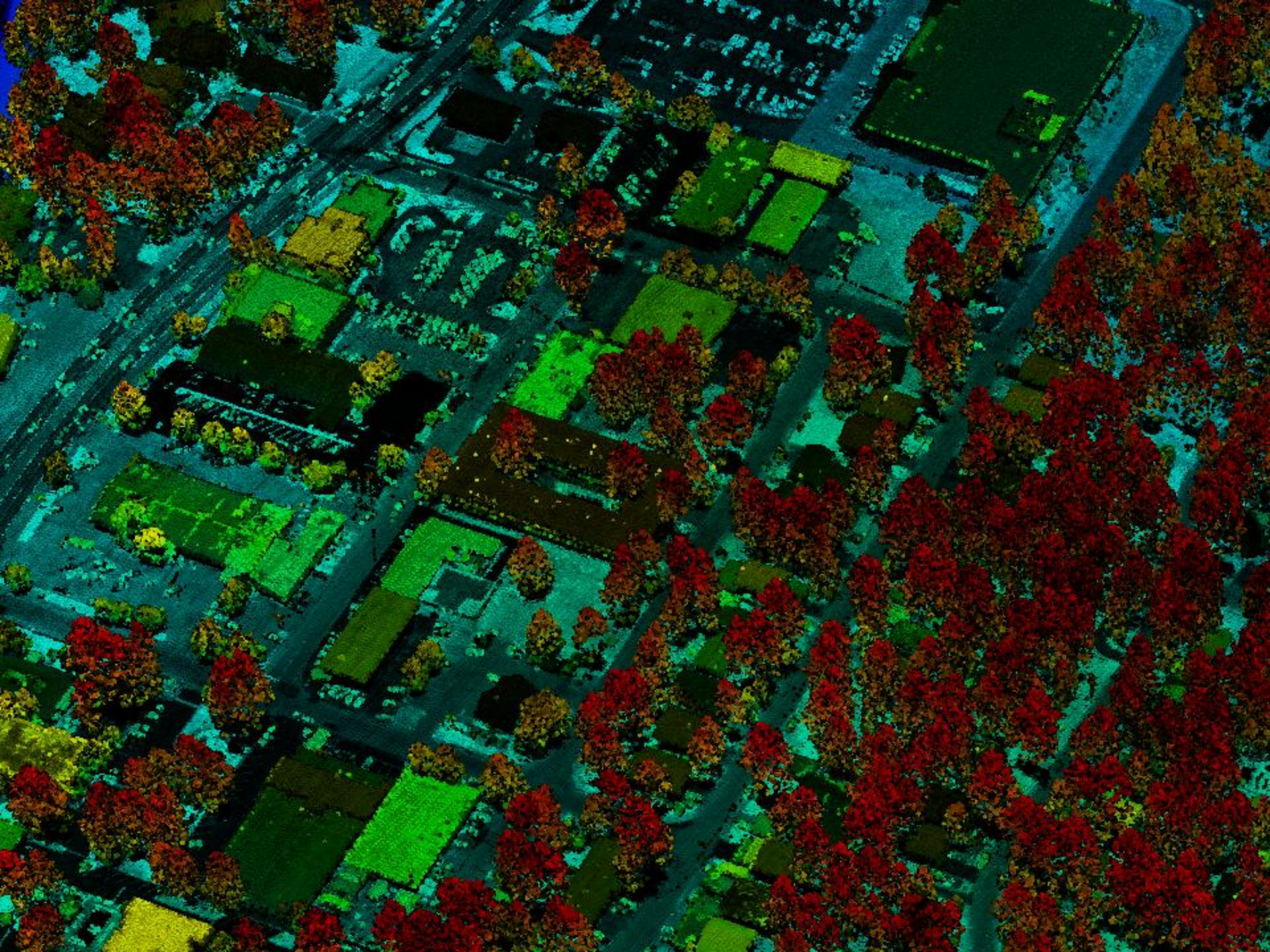


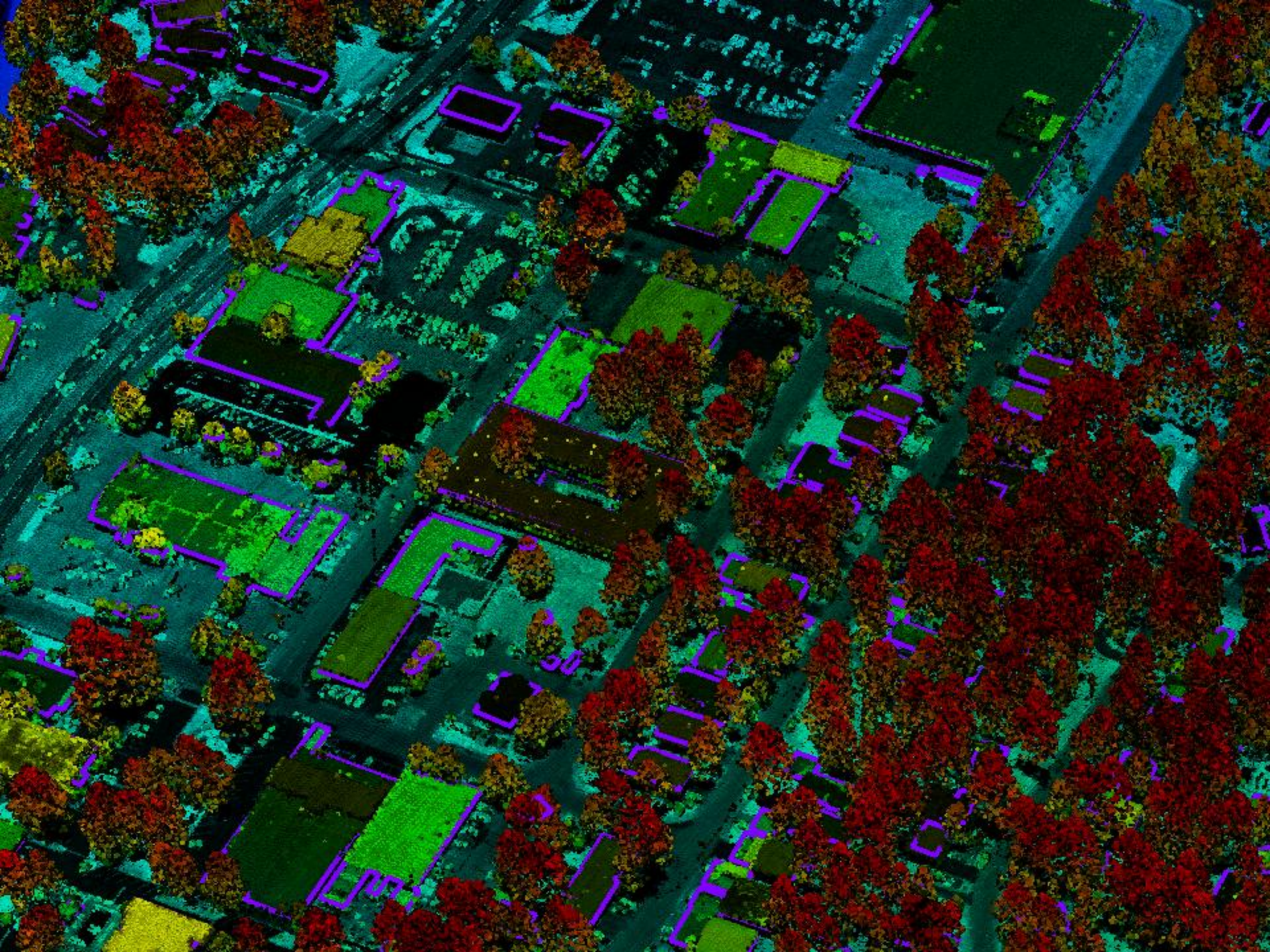




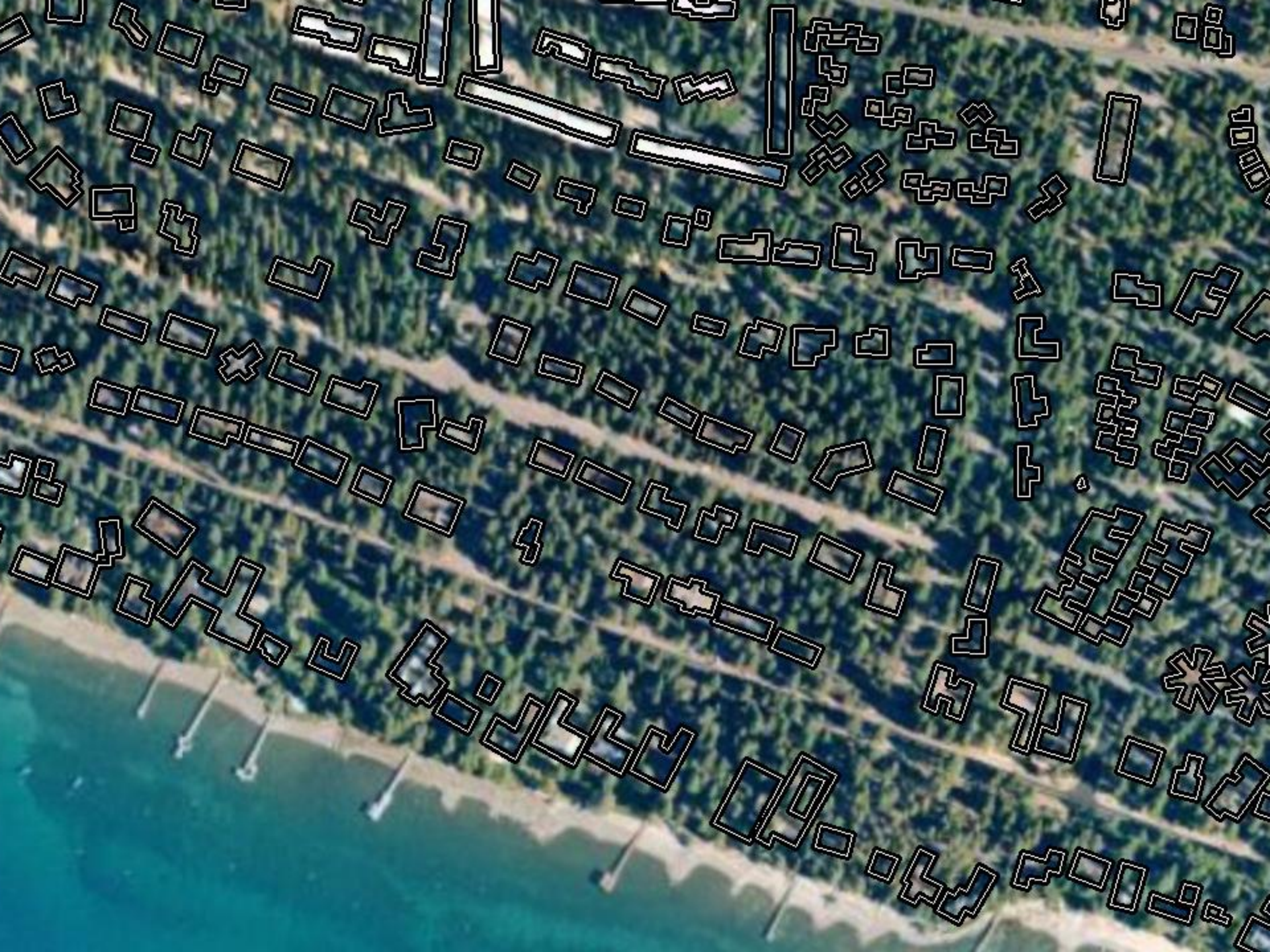


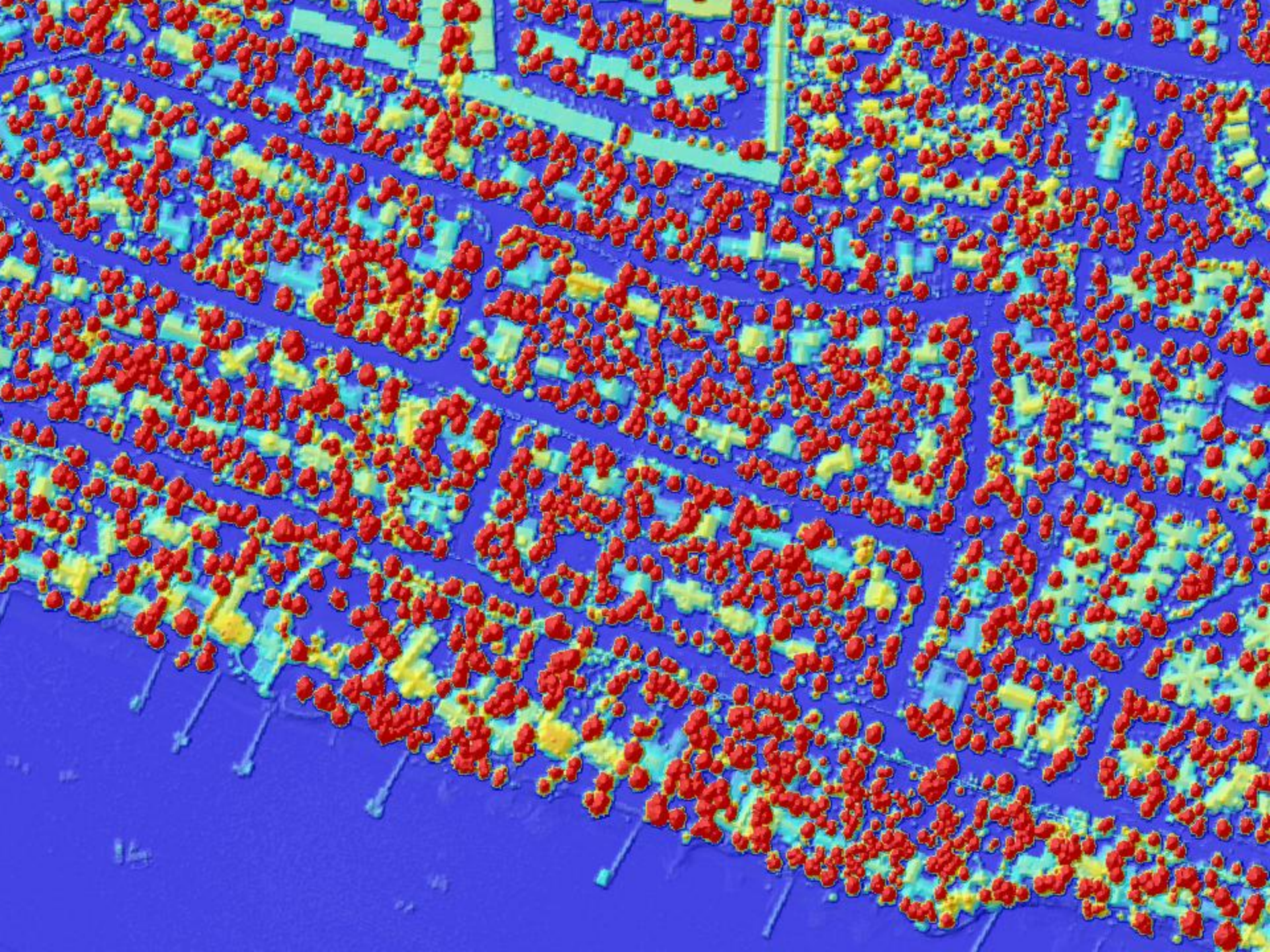


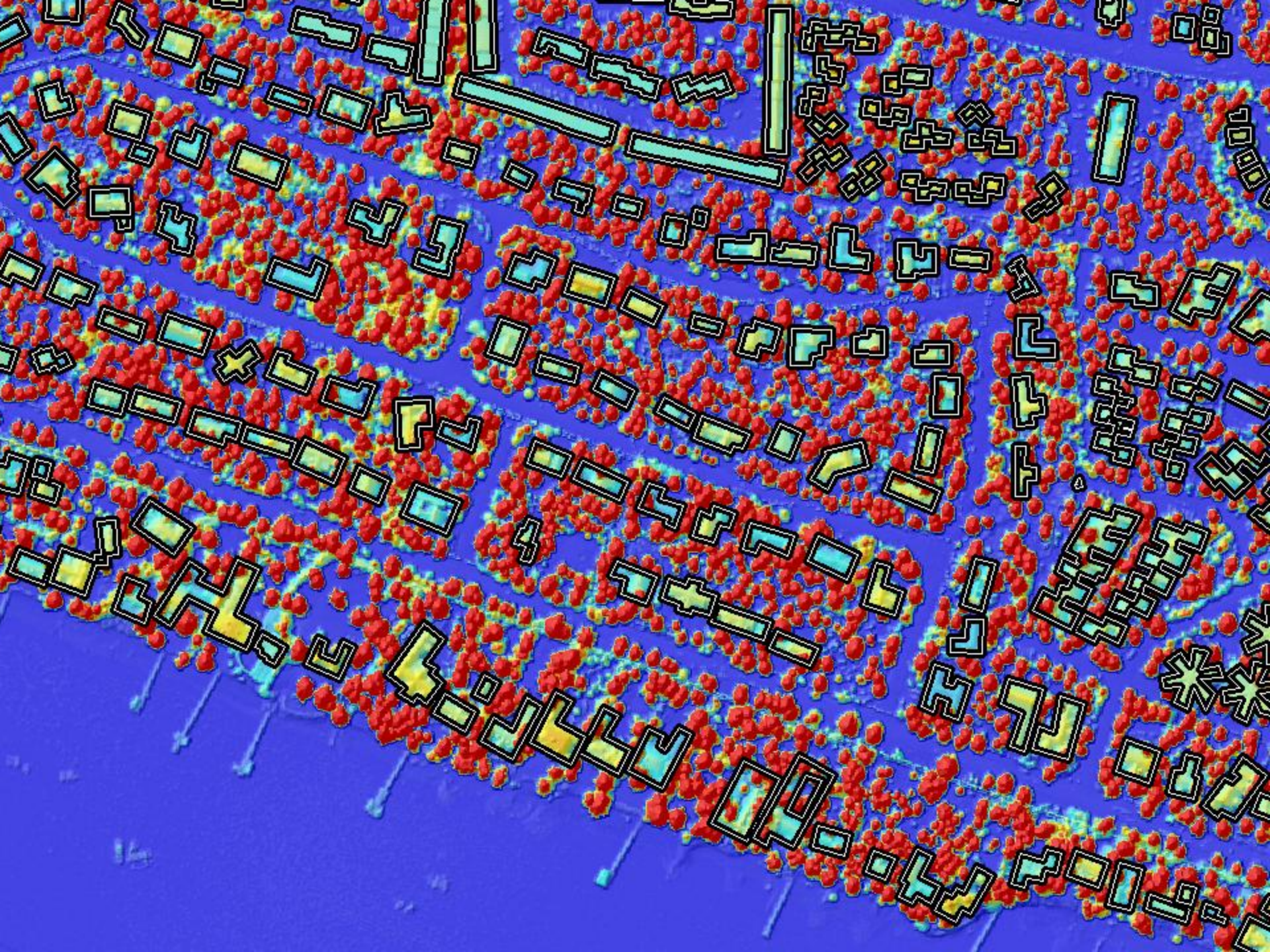




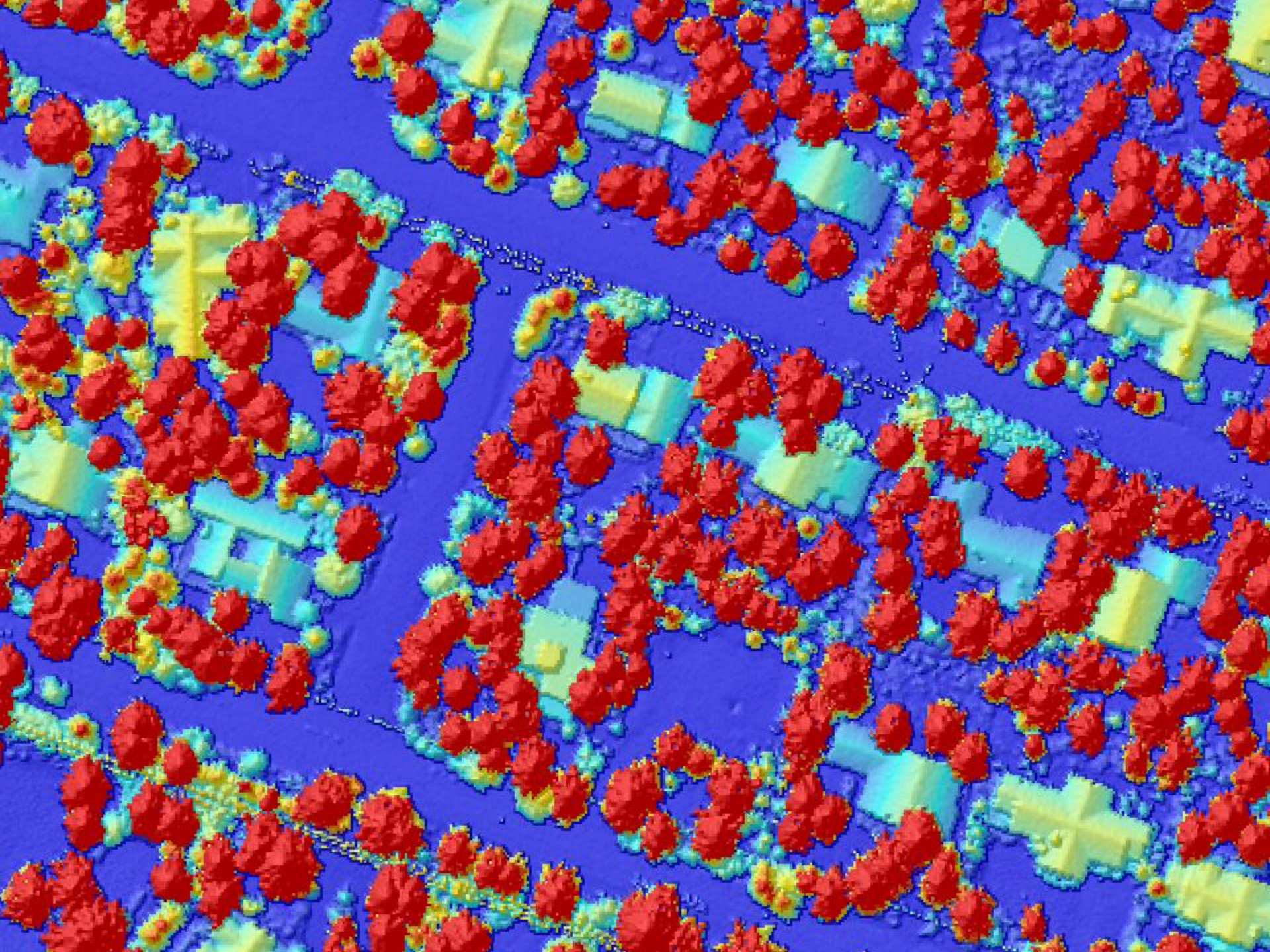


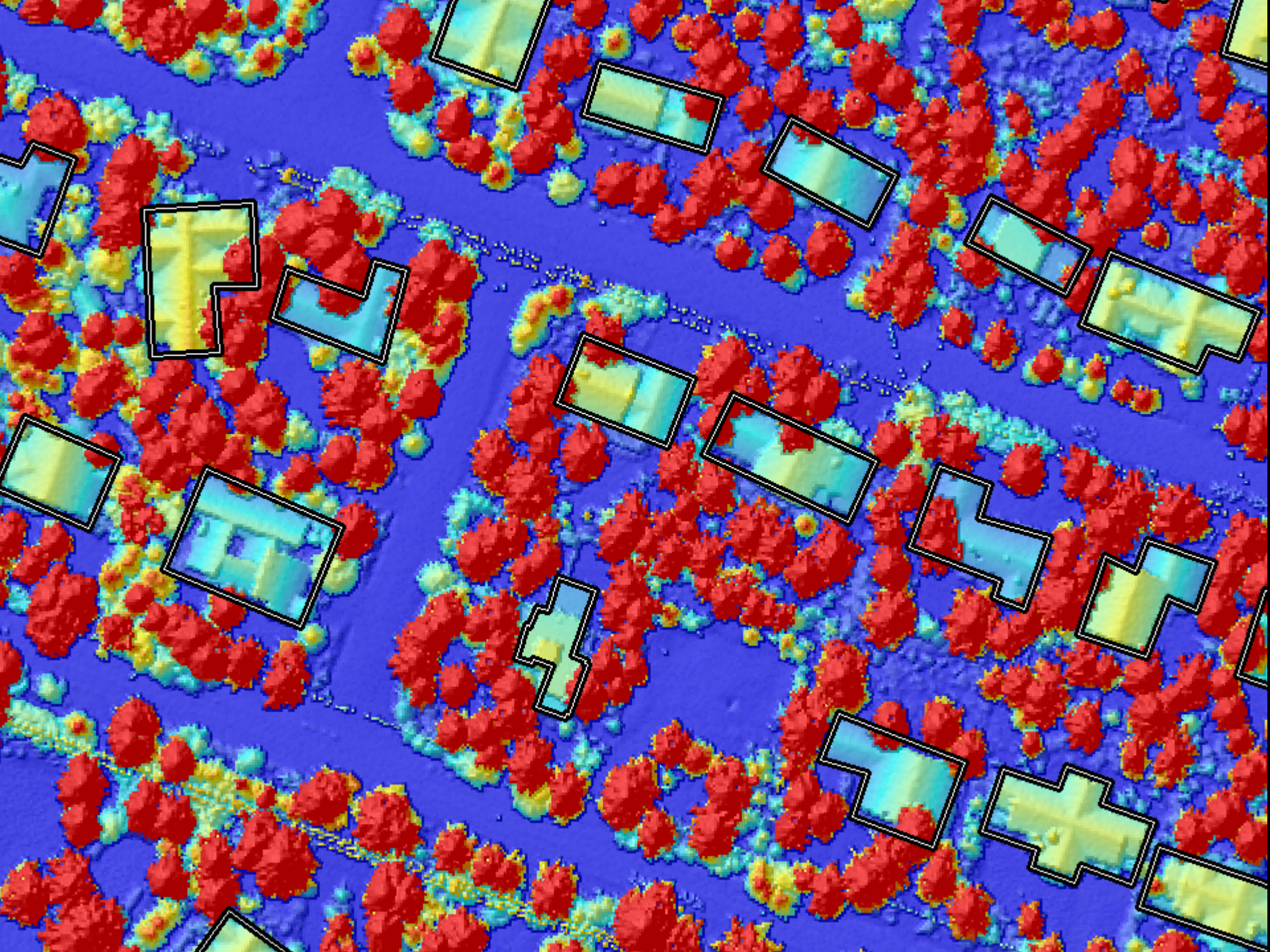
















Way

Cole Circle

Dale Dr

First Creek

Suc

Silver

Ponderosa Ave

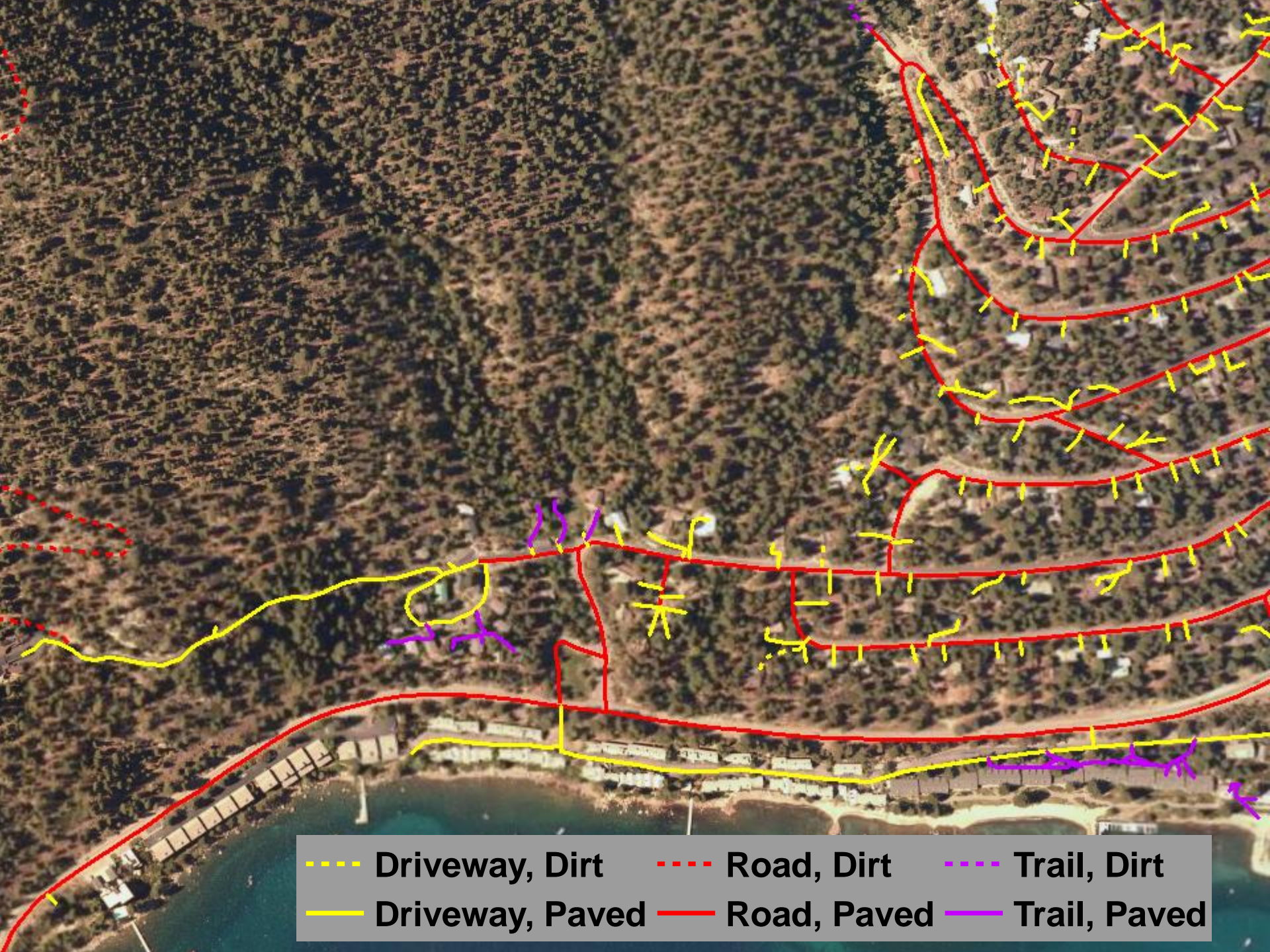
Logpole Dr

Red Cedar Dr

Vue Ct

North Lake Rd

28



----- Driveway, Dirt	----- Road, Dirt	----- Trail, Dirt
----- Driveway, Paved	----- Road, Paved	----- Trail, Paved

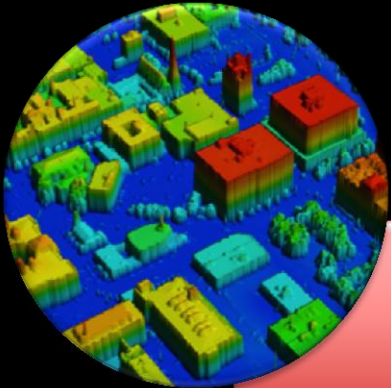




Quality Control



OBIA

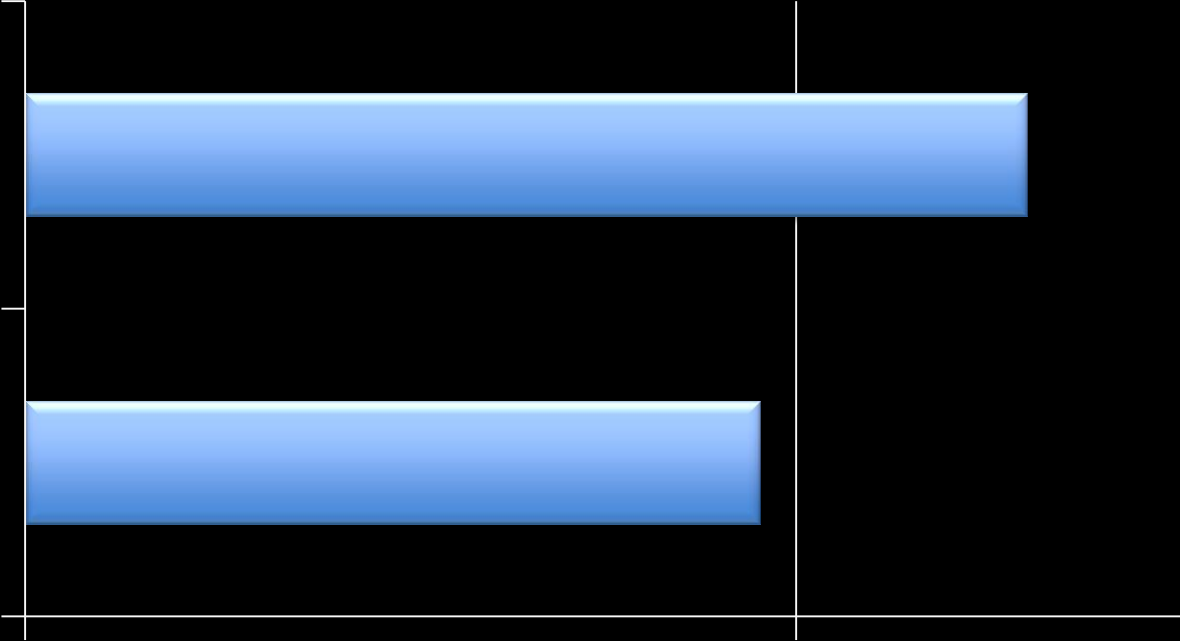


Data Prep

Pixels

NLCD (30m)

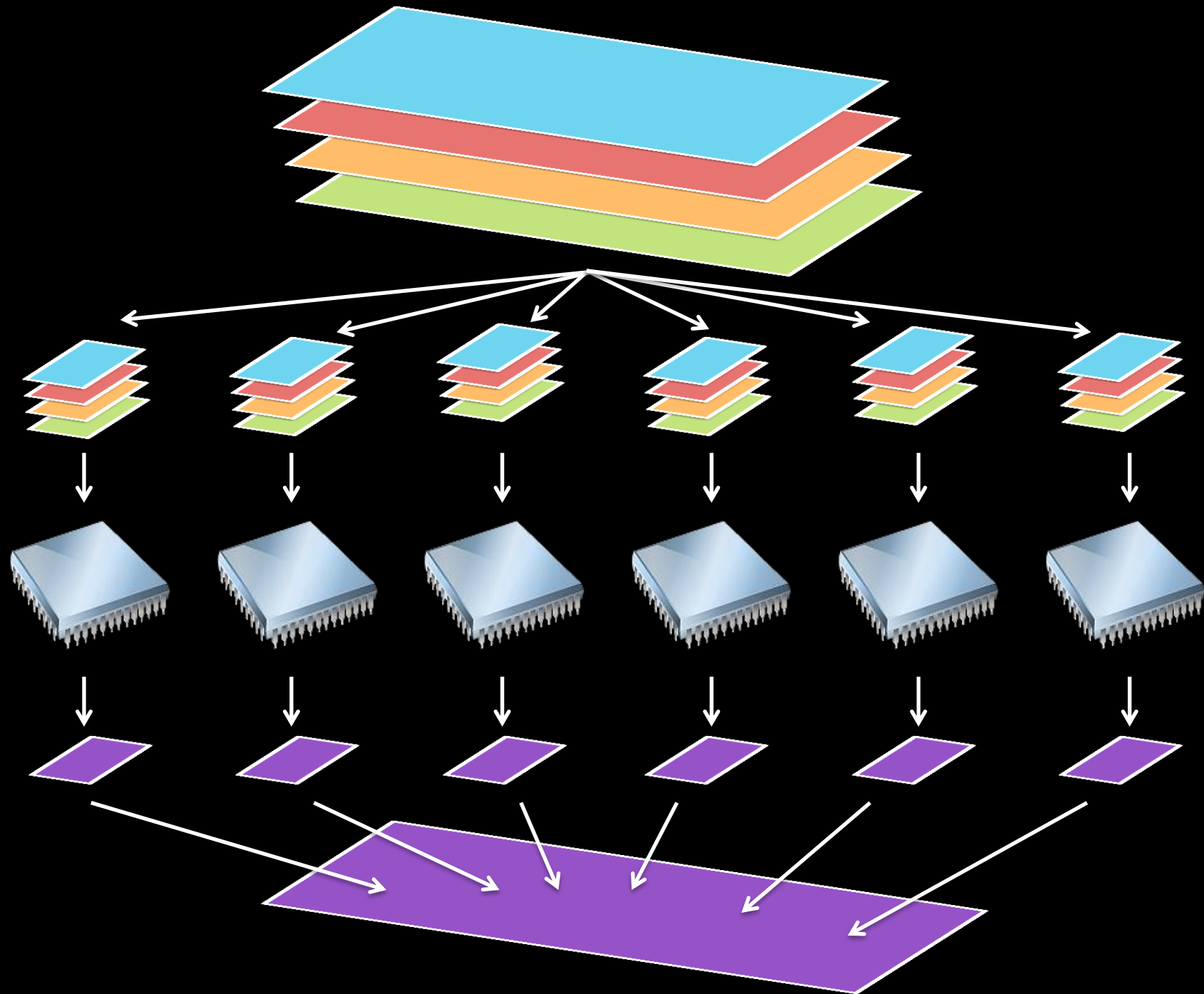
LiDAR (0.5m)



-

10

Billions





QUALITY CONTROL

Sometimes falling asleep on the job results in... awesomeness.

