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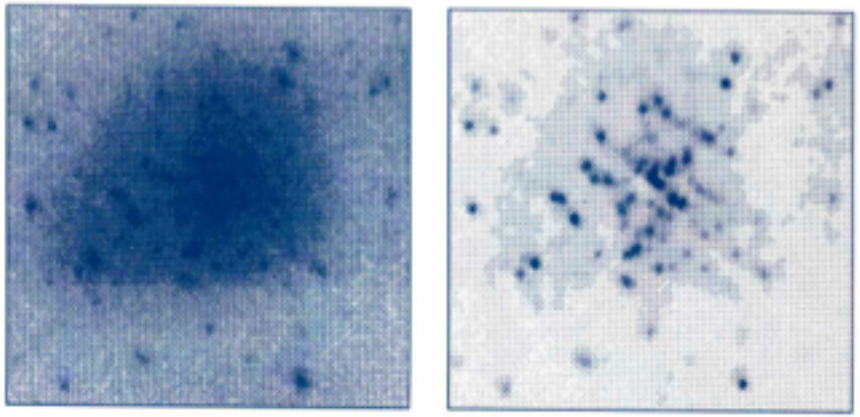
ADASSXXVI

25 years ago …

Astronomical Society of the Pacific Conference Series Volume 25

ASTRONOMICAL DATA ANALYSIS
SOFTWARE AND SYSTEMS I



Edited by
Diana M. Worrall, Chris Biemesderfer
and Jeannette Barnes

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November 6-8, 1991 Tucson, AZ

Clive G. Page ⟨19838::cgp⟩
XRA Group, Leicester University, Leicester, ENGLAND

A. N. Parmar ⟨exosat::arvind⟩
[illegible]

Fabio Pasian ⟨fpasian@eso.org⟩
ST-ECF/ESO, Garching, GERMANY

[illegible]
Loránd Eötvös University, Budapest, HUNGARY

Jeffrey A. Pedelty ⟨pedelty@amarna.gsfc.nasa.gov⟩
NASA/GSFC, Greenbelt, MD

José H. Peña ⟨astros@unamvm1.bitnet⟩
UNAM - INAOE, Mexico D.F., MEXICO

COBE DIFFERENTIAL MICROWAVE RADIOMETER (DMR) DATA PROCESSING TECHNIQUES

P.D. JACKSON[1], G.F. SMOOT[2], C.L. BENNETT[3], J. AYMON[2], C. BACKUS[1], G. DE AMICI[2], G. HINSHAW[4], P. B. KEEGSTRA[1], A. KOGUT[4], C. LINEWEAVER[2], L.A. ROKKE[1], AND L. TENORIO[2]

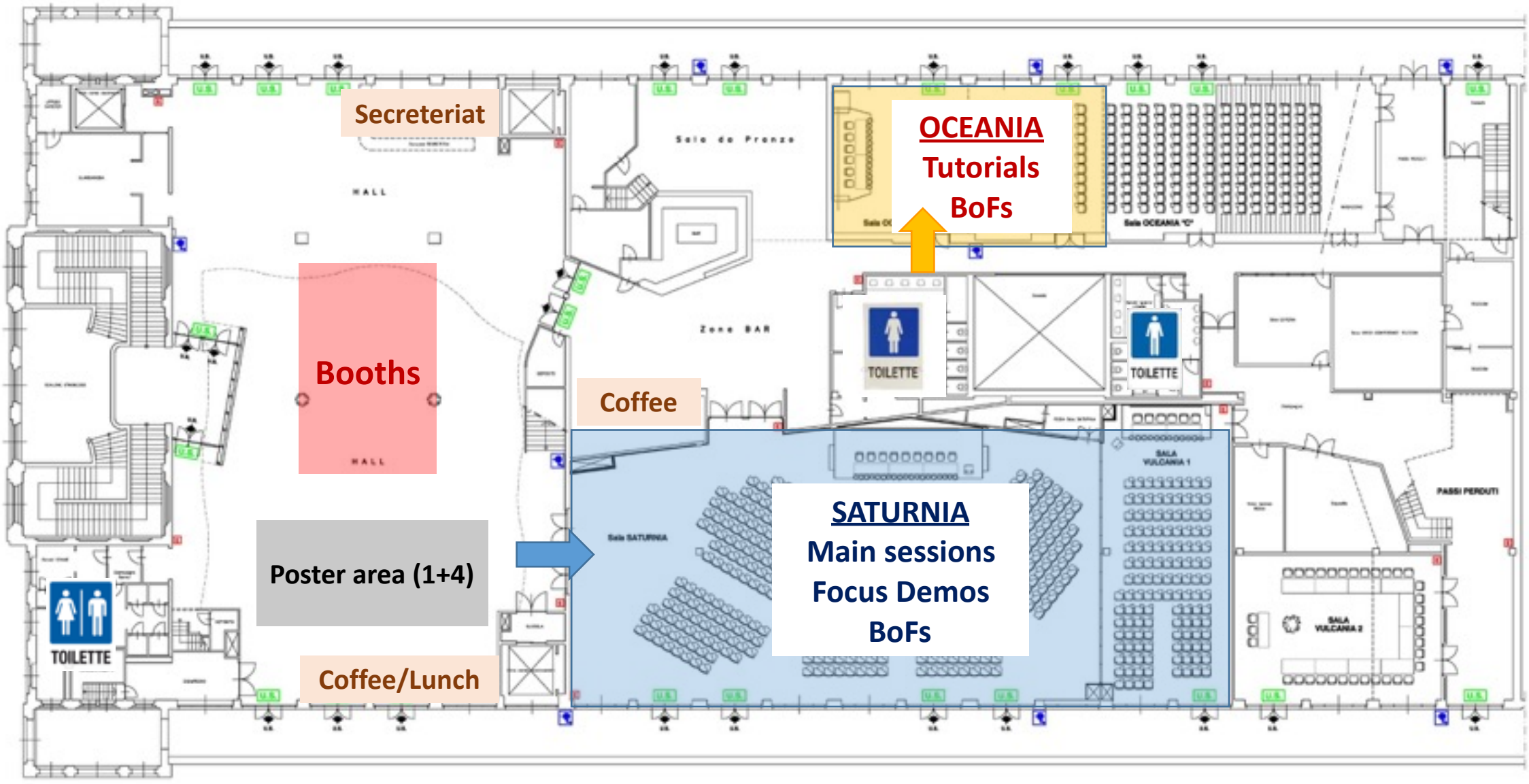
ABSTRACT The Differential Microwave Radiometers (DMR) experiment measures temperature differences in the microwave sky at frequencies of 31.5, 53, and 90 GHz. We discuss the software system used to calibrate and invert these difference measurements to produce full-sky maps of the large-scale distribution of the cosmic microwave background. Tests indicate that any spurious features introduced by the data processing are negligible compared to the instrument noise.

DAILY QUALITY ASSURANCE SOFTWARE FOR A SATELLITE RADIOMETER SYSTEM

P.B. KEEGSTRA[1], G.F. SMOOT[2], C.L. BENNETT[3], J. AYMON[2], C. BACKUS[1], G. DE AMICI[2], G. HINSHAW[4], P.D. JACKSON[1], A. KOGUT[4], C. LINEWEAVER[2], L.A. ROKKE[1], J. SANTANA[1], AND L. TENORIO[1]

ABSTRACT Six Differential Microwave Radiometers (DMR) on the *COBE* (Cosmic Background Explorer) measure the large-angular-scale isotropy of the cosmic microwave background (CMB) at 31.5, 53, and 90 GHz. In addition to basic plotting and limit-checking, we implement a collection of more specialized programs to perform data quality assurance and long-term trending. Quality assurance of DMR data poses challenging requirements. The data are differential, so a single bad point can affect a large region of the sky, yet lengthy integration times (> 1 year) are required to limit potential CMB anisotropies.

George F. Smoot,
Nobel Laureate 2006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SALA VULCANIA 1
SALA VULCANIA 2
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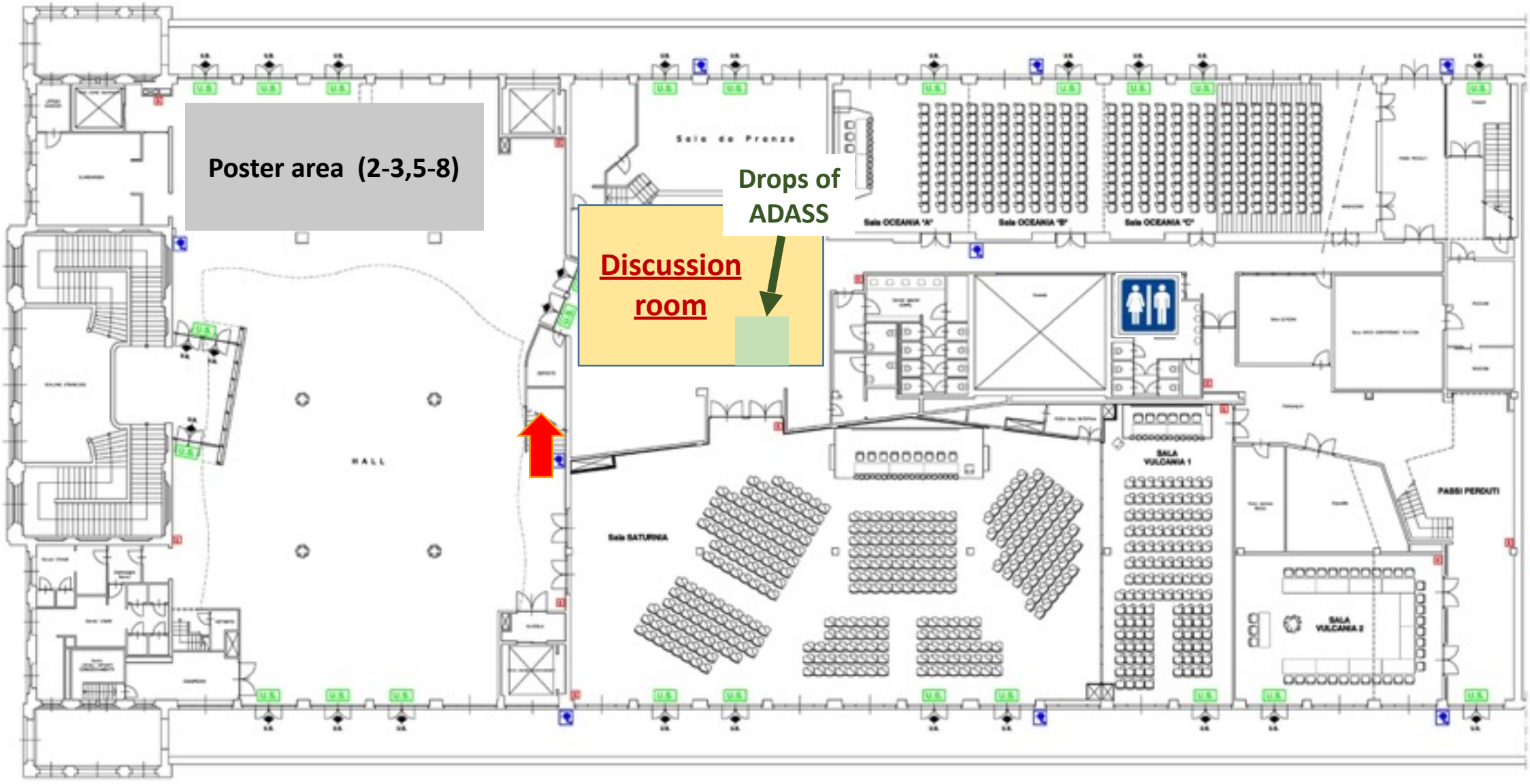
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SALA VULCANIA 1
SALA VULCANIA 2
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2nd Floor

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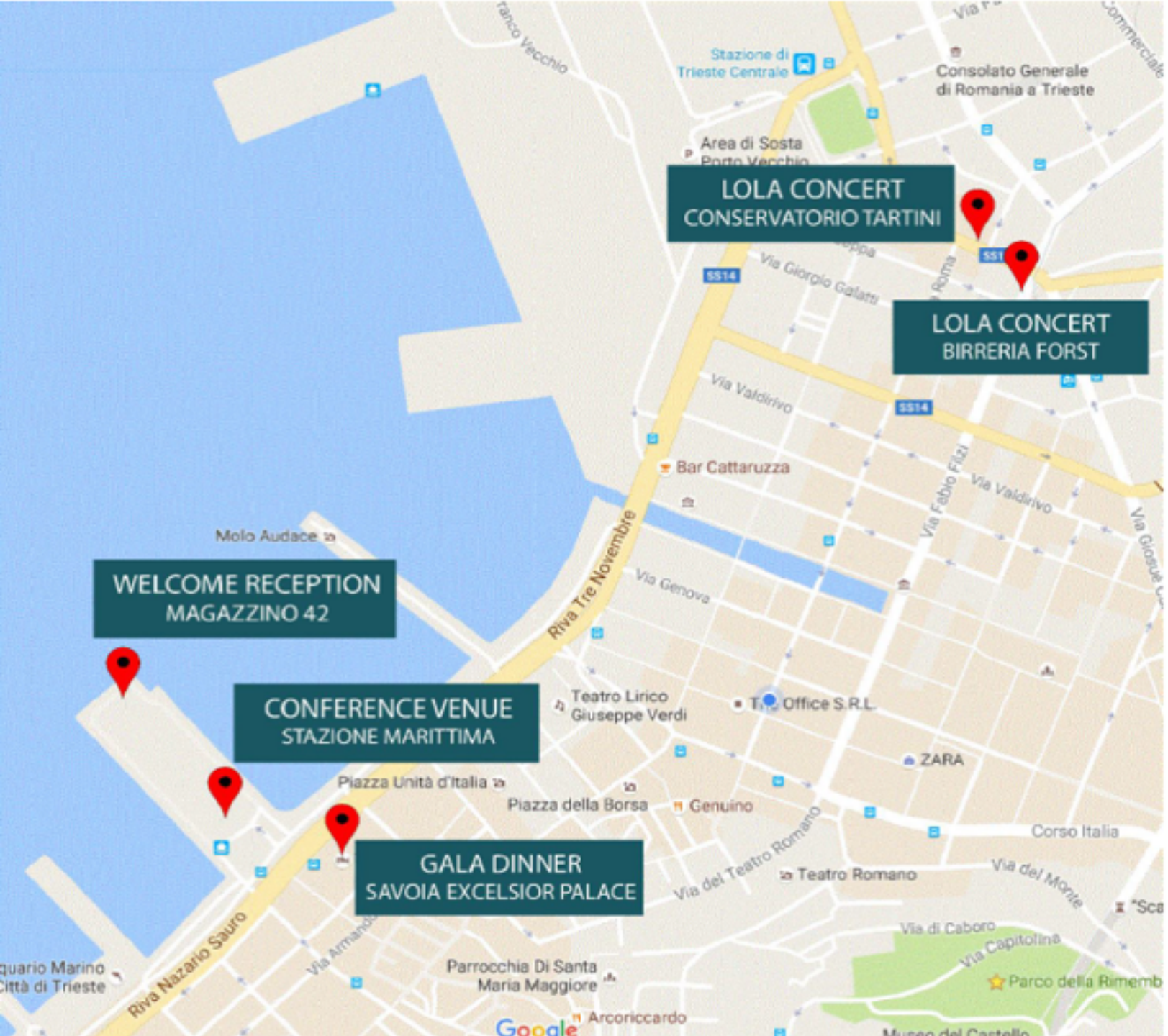

Gala dinner:
Monday, 20:00

LoLa Concert:
Tuesday, 19:00 and 20:30
+ reception

ADASS XXVI Jogging:
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