I.1 IT Infrastructure

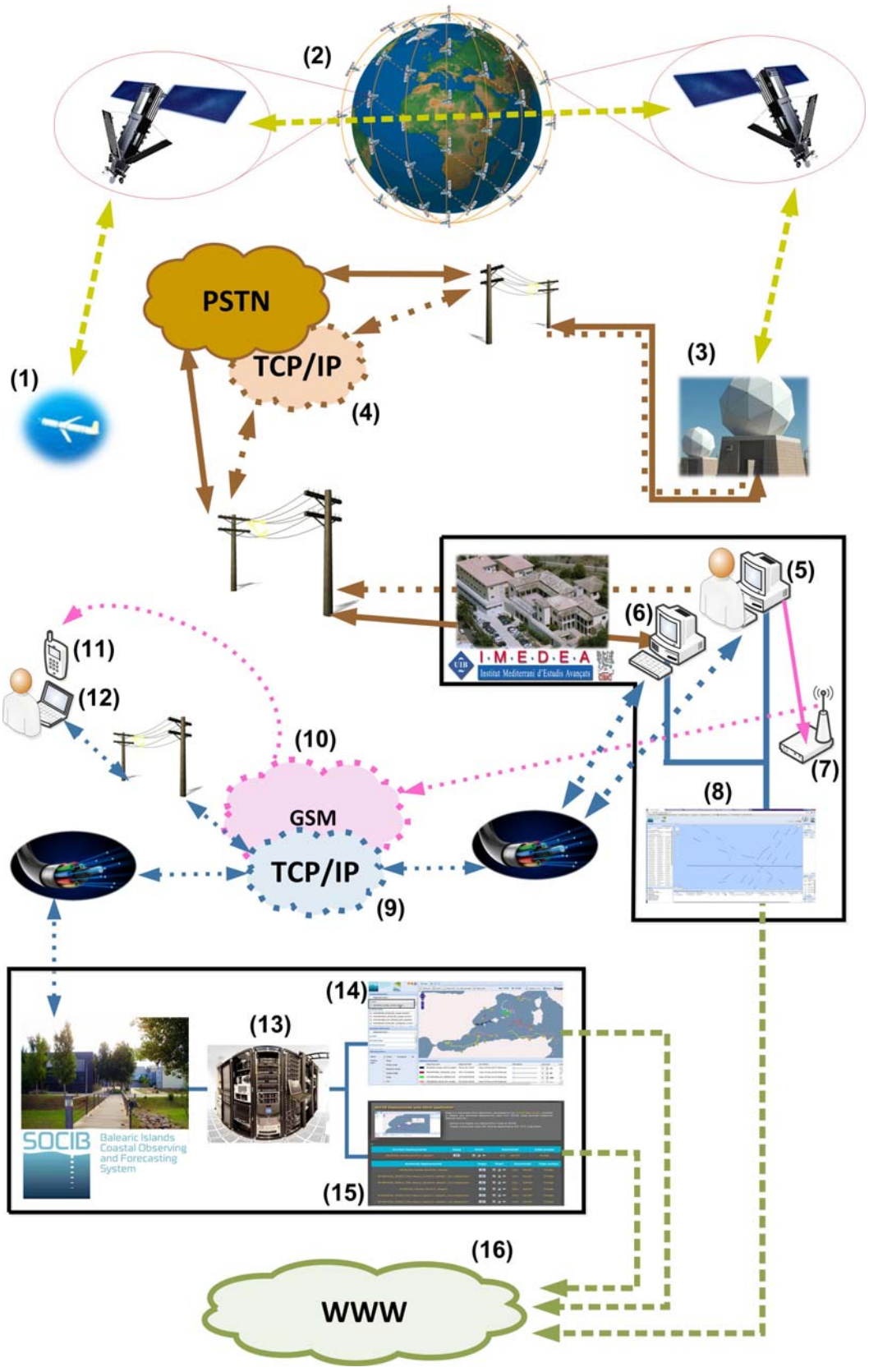

Figure 1. IT Infrastructure used for Glider operations

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(1) Deployed Glider with a high signal-quality and good sky-view connecting to

(2) Iridium® satellite network that routes the call to the

(3) ground gateway station(GGS). Using either

(4) RUDICS ( ) or DIAL-UP ( ), GGS establishes the call between the Glider and

(5) IMEDEA's Primary Control Computer (PCC) or

(6) IMEDEA's Secondary Control Computer (SCC); respectively (with or without local Piloting activity).

During that call, Glider and PCC/SCC will exchange commands, near-real-time-files and the first will create Logfiles. These Logs will be parsed to create an SMS that will be delivered by the

(7), (10) GSM modem connected to PCC to the

(11) smartphone used by the Pilots during 24/7 monitoring and surveillance.

(12) Pilot's personal laptops have also total access to PCC and SCC from everywhere. At the same time,

(8) backup on-line tracking tool (GAPP) will publicly show the Glider's updated position; as well as other engineering info contained in the Logfiles and plots of the near-real-time-files sent by the Glider. These files are then pulled by

(13) SOCIB's data-center computers, on a

(9) high-data-transfer optical network, that processes the engineering and scientific information contained in these files and offers services of

(14) principal on-line tracking tool (DAPP) and

(15) public repository with mission data in standardized netCDF and preliminary plots. Along with DAPP, these services are

(16) freely available 24/7 through the Internet not only by IMEDEA/SOCIB staff but to the (inter)national community and general public.