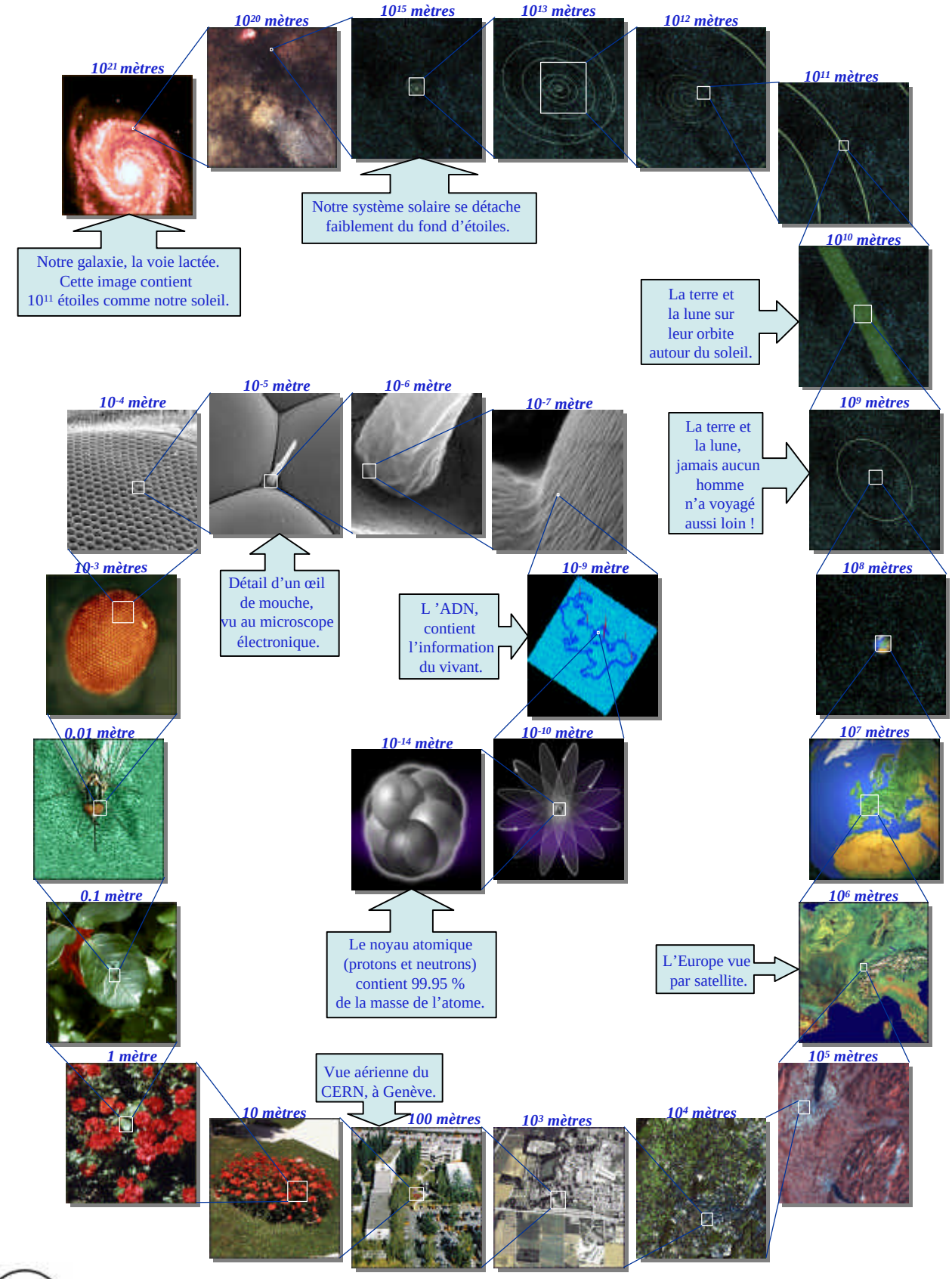1 Du macro au microscopique