

MENDI-ZAR

 **Gobierno
de Navarra**
Departamento de Obras Públicas,
Transportes y Comunicaciones

MAPA GEOMORFOLÓGICO DE NAVARRA

The map shows the Iberian Peninsula with a grid overlay. Grid cells are numbered as follows:

- Row 1: 64, 65, 66
- Row 2: 68, 90, 91, 92
- Row 3: 113, 114, 115, 116, 117
- Row 4: 130, 140, 141, 142, 143
- Row 5: 171, 172, 173, 174, 175
- Row 6: 204, 205, 206, 207, 208
- Row 7: 243, 244, 245
- Row 8: 281, 282, 283
- Row 9: 320, 321

A yellow arrow points to cell 91.

MAYANMAUR 66			
LUZARDO/ VALCARELOS 91	MENCHU-ZAR 9656-III		
GAMBALDA 716	OCHAGAVIA 817	ZURZA 78	

Ochagavia III

Elm. 1940-1942, 1943-1945, 1946-1948, 1949-1950, 1951-1952, 1953-1954, 1955-1956, 1957-1958, 1959-1960, 1961-1962, 1963-1964, 1965-1966, 1967-1968, 1969-1970, 1971-1972, 1973-1974, 1975-1976, 1977-1978, 1979-1980, 1981-1982, 1983-1984, 1985-1986, 1987-1988, 1989-1990, 1991-1992, 1993-1994, 1995-1996, 1997-1998, 1999-2000, 2001-2002, 2003-2004, 2005-2006, 2007-2008, 2009-2010, 2011-2012, 2013-2014, 2015-2016, 2017-2018, 2019-2020, 2021-2022, 2023-2024, 2025-2026, 2027-2028, 2029-2030, 2031-2032, 2033-2034, 2035-2036, 2037-2038, 2039-2040, 2041-2042, 2043-2044, 2045-2046, 2047-2048, 2049-2050, 2051-2052, 2053-2054, 2055-2056, 2057-2058, 2059-2060, 2061-2062, 2063-2064, 2065-2066, 2067-2068, 2069-2070, 2071-2072, 2073-2074, 2075-2076, 2077-2078, 2079-2080, 2081-2082, 2083-2084, 2085-2086, 2087-2088, 2089-2090, 2091-2092, 2093-2094, 2095-2096, 2097-2098, 2099-2100, 2101-2102, 2103-2104, 2105-2106, 2107-2108, 2109-2110, 2111-2112, 2113-2114, 2115-2116, 2117-2118, 2119-2120, 2121-2122, 2123-2124, 2125-2126, 2127-2128, 2129-2130, 2131-2132, 2133-2134, 2135-2136, 2137-2138, 2139-2140, 2141-2142, 2143-2144, 2145-2146, 2147-2148, 2149-2150, 2151-2152, 2153-2154, 2155-2156, 2157-2158, 2159-2160, 2161-2162, 2163-2164, 2165-2166, 2167-2168, 2169-2170, 2171-2172, 2173-2174, 2175-2176, 2177-2178, 2179-2180, 2181-2182, 2183-2184, 2185-2186, 2187-2188, 2189-2190, 2191-2192, 2193-2194, 2195-2196, 2197-2198, 2199-2200, 2201-2202, 2203-2204, 2205-2206, 2207-2208, 2209-2210, 2211-2212, 2213-2214, 2215-2216, 2217-2218, 2219-2220, 2221-2222, 2223-2224, 2225-2226, 2227-2228, 2229-2230, 2231-2232, 2233-2234, 2235-2236, 2237-2238, 2239-2240, 2241-2242, 2243-2244, 2245-2246, 2247-2248, 2249-2250, 2251-2252, 2253-2254, 2255-2256, 2257-2258, 2259-2260, 2261-2262, 2263-2264, 2265-2266, 2267-2268, 2269-2270, 2271-2272, 2273-2274, 2275-2276, 2277-2278, 2279-2280, 2281-2282, 2283-2284, 2285-2286, 2287-2288, 2289-2290, 2291-2292, 2293-2294, 2295-2296, 2297-2298, 2299-2300, 2301-2302, 2303-2304, 2305-2306, 2307-2308, 2309-2310, 2311-2312, 2313-2314, 2315-2316, 2317-2318, 2319-2320, 2321-2322, 2323-2324, 2325-2326, 2327-2328, 2329-2330, 2331-2332, 2333-2334, 2335-2336, 2337-2338, 2339-2340, 2341-2342, 2343-2344, 2345-2346, 2347-2348, 2349-2350, 2351-2352, 2353-2354, 2355-2356, 2357-2358, 2359-2360, 2361-2362, 2363-2364, 2365-2366, 2367-2368, 2369-2370, 2371-2372, 2373-2374, 2375-2376, 2377-2378, 2379-2380, 2381-2382, 2383-2384, 2385-2386, 2387-2388, 2389-2390, 2391-2392, 2393-2394, 2395-2396, 2397-2398, 2399-2400, 2401-2402, 2403-2404, 2405-2406, 2407-2408, 2409-2410, 2411-2412, 2413-2414, 2415-2416, 2417-2418, 2419-2420, 2421-2422, 2423-2424, 2425-2426, 2427-2428, 2429-2430, 2431-2432, 2433-2434, 2435-2436, 2437-2438, 2439-2440, 2441-2442, 2443-2444, 2445-2446, 2447-2448, 2449-2450, 2451-2452, 2453-2454, 2455-2456, 2457-2458, 2459-2460, 2461-2462, 2463-2464, 2465-2466, 2467-2468, 2469-2470, 2471-2472, 2473-2474, 2475-2476, 2477-2478, 2479-2480, 2481-2482, 2483-2484, 2485-2486, 2487-2488, 2489-2490, 2491-2492, 2493-2494, 2495-2496, 2497-2498, 2499-2500, 2501-2502, 2503-2504, 2505-2506, 2507-2508, 2509-2510, 2511-2512, 2513-2514, 2515-2516, 2517-2518, 2519-2520, 2521-2522, 2523-2524, 2525-2526, 2527-2528, 2529-2530, 2531-2532, 2533-2534, 2535-2536, 2537-2538, 2539-2540, 2541-2542, 2543-2544, 2545-2546, 2547-2548, 2549-2550, 2551-2552, 2553-2554, 2555-2556, 2557-2558, 2559-2560, 2561-2562, 2563-2564, 2565-2566, 2567-2568, 2569-2570, 2571-2572, 2573-2574, 2575-2576, 2577-2578, 2579-2580, 2581-2582, 2583-2584, 2585-2586, 2587-2588, 2589-2590, 2591-2592, 2593-2594, 2595-2596, 2597-2598, 2599-2600, 2601-2602, 2603-2604, 2605-2606, 2607-2608, 2609-2610, 2611-2612, 2613-2614, 2615-2616, 2617-2618, 2619-2620, 2621-2622, 2623-2624, 2625-2626, 2627-2628, 2629-2630, 2631-2632, 2633-2634, 2635-2636, 2637-2638, 2639-2640, 2641-2642, 2643-2644, 2645-2646, 2647-2648, 2649-2650, 2651-2652, 2653-2654, 2655-265

[illegible]

Cretáceo Superior Paleoceno-Eoceno inf. Eoceno (Cuisiense)

A stylized illustration of a rocky coastline. The foreground shows jagged, brownish-yellow rocks with some green patches. The water is a light blue-grey color. A small, dark boat is visible in the distance on the right side of the water. The background is a solid light blue-grey color.

Escala 1:100.000

0-4% 4-10% 10-20% 20-35%


A topographic map of the Pamplona region in the Pyrenees. The map shows elevation contours with labels such as 500, 600, 700, 800, 900, 1000, 1100, 1200, 1300, 1400, 1500, 1600, and 1700. The city of Pamplona is labeled in the center. The map is bordered by France to the north and east. A white box in the upper right corner indicates the location of the study area. The map is divided into several colored regions: green for lower elevations, yellow for intermediate elevations, and orange for higher elevations. The map is numbered 8, 9, 10, 11, 12, 13, and 14 in the corners.


Escala 1:1.000.000


— 12 — Isoterma media anual


— 500 — Isoyeta media anual


— Limite provincial


 < 600 mm/año


 600-800 mm/año


 800-1000 mm/año

 1000-1200 mm/año

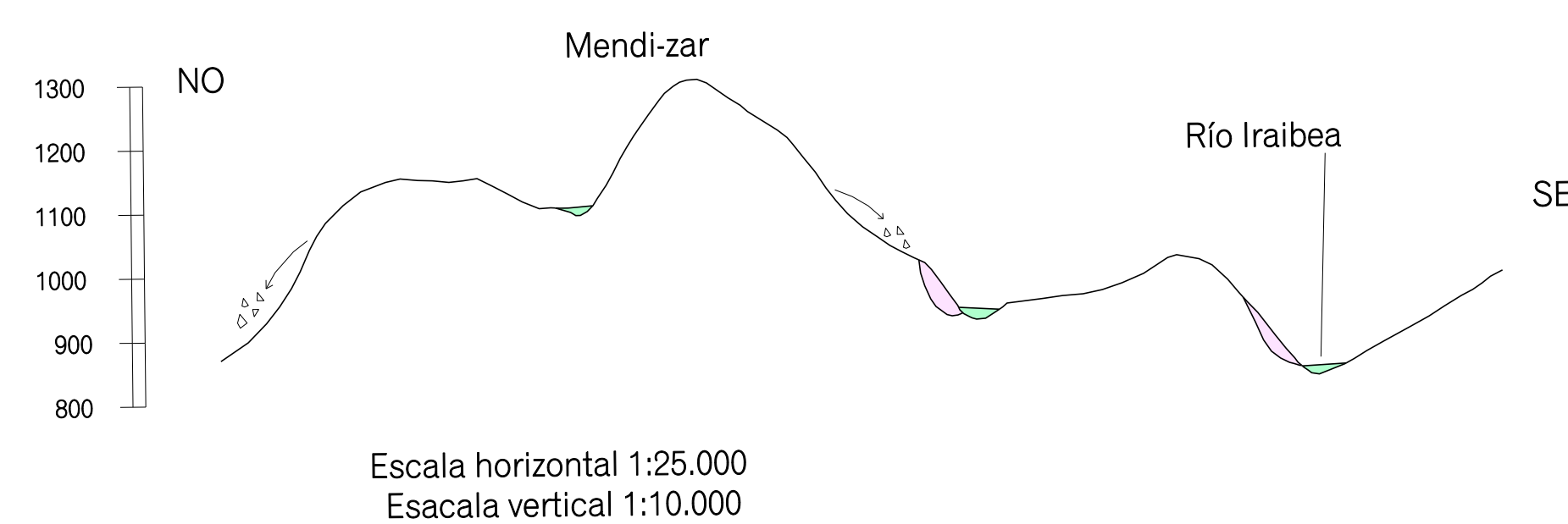
 1200-1400 mm/año

 1400-1600 mm/año

 1600-1800 mm/año

 > 1800 mm/año

CORTE I-I'

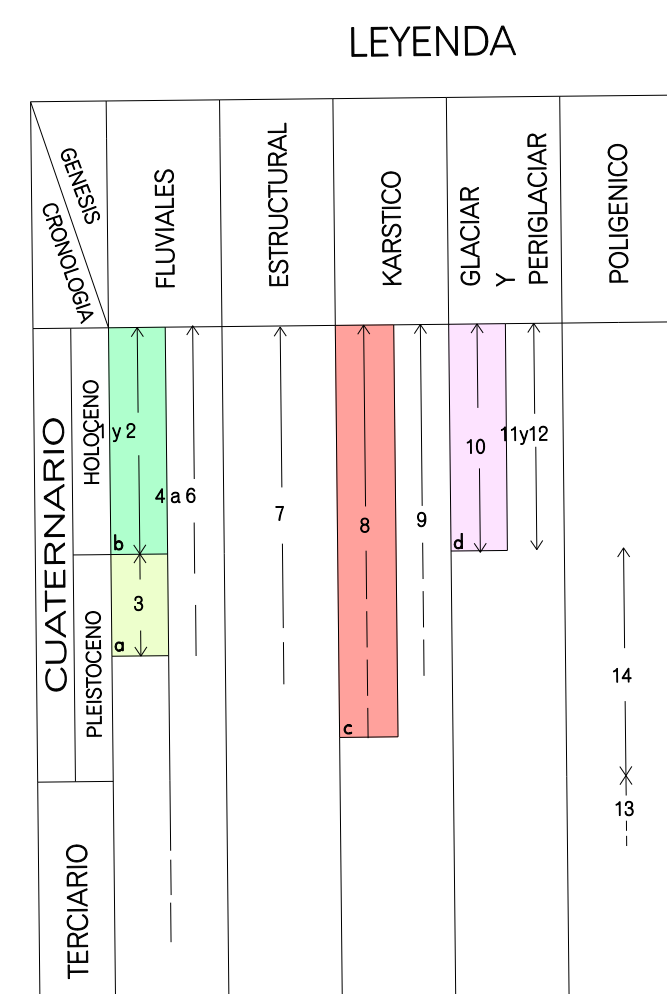


NO















Rio Irati

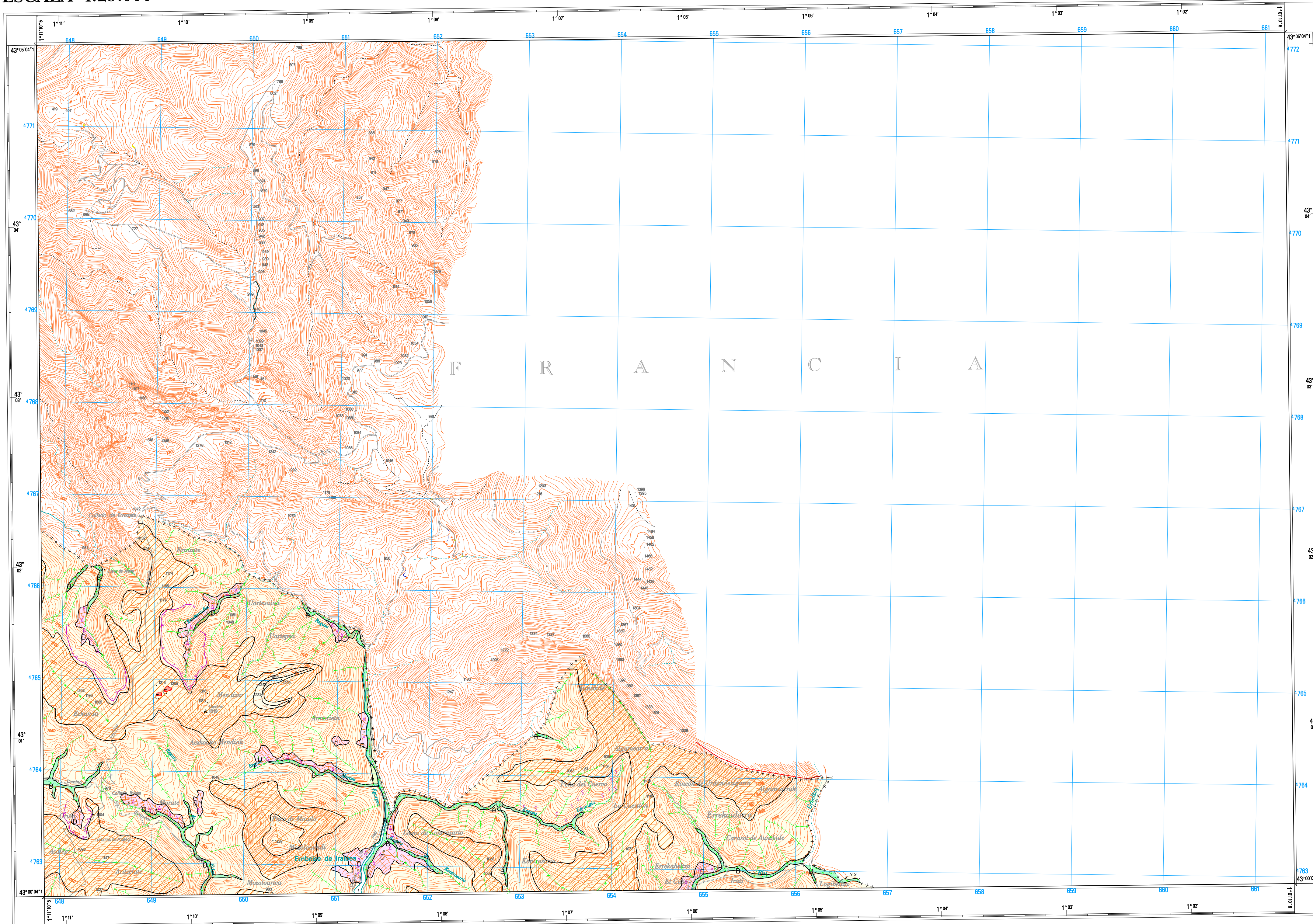
SE

Escala horizontal 1:25.000
 Escala vertical 1:10.000



FLUVIALES

- | | | |
|------------------------------|---|--|
| 1 |  | Fondo de valle |
| 2 |  | Llanuras de inundación |
| 3 |  | Terraza |
| 4 |  | Incisión lineal |
| 5 |  | Aristas (interfluvijs) |
| 6 |  | Divisorio de aguas |
| ESTRUCTURAL | | |
| 7 |  | Cresta |
| KARSTICAS | | |
| 8 |  | Fondo de dolina |
| 9 |  | Dolina y uvala |
| GLACIAR Y PERIGLACIAR | | |
| 10 |  | Camberones necrosos, campos de bloques |
| 11 |  | Nicho de nivación |
| 12 |  | Repitación |
| POLIGENICAS | | |
| |  | Superficie de erosión |
| 14 |  | Relieve residual (inselberg) |



DATOS PARA EL CENTRO DE LA HOJA
 Valor medio de la declinación magnética para el
 1 de Enero de 1996 $\delta = 2^{\circ} 02'$ Oeste
 La declinación disminuye cada año 7,3'
 Huso 30, Convergencia de la cuadrícula $\alpha = 1^{\circ}$
 Factor de escala = 0.999894

ESCALA 1:25.000

1000 m 500 0 1

[Eje de la Escala]

Episodio internacional. Proyección U.T.M. Datum europeo. Las longitudes están referidas al meridiano de Greenwich.
Las altitudes se refieren al nivel medio del Mediterráneo en Alicante. Equidistancia de las curvas de nivel 10 metros.
Las coordenadas geográficas en negro corresponden a la red geodésica europea unificada.
Las coordenadas en rojo corresponden a la red local kilométrica U.T.M.

Dirección y Supervisión: Esteban Fari Paricio (Gobierno de Navarra)
Coordinación Cartografía Digital: M^a Jesús Larrañaga Sainza (Gobierno de Navarra)
Fecha de Ejecución: Año 1999